



SENET-HUB
SINO-EUROPEAN HEALTH NETWORKING HUB

Map of major funding agencies and stakeholders in Europe and China

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Abbreviations and Acronyms

Abbreviation, Acronym	Description
AIT	Austrian Institute of Technology
AKA	Academy of Finland
ANR	The French National Research Agency
ARC	Association pour la Recherche sur le Cancer
BMBF	Federal Ministry of Education and Research
BUCM	Beijing University of Chinese Medicine (project partner)
C3M	Centre Méditerranéen de Médecine Moléculaire
CFM	EU-China Co-Funding Mechanism
CHAFEA	Consumers, Health, Agriculture and Food Executive Agency
CMC	China Medical City
CNCBD	China National Center for Biotechnology Development (project partner)
CNHDRC	China National Health Development Research Center (project partner)
CNR	National Research Council
CNCS	National Research Council of Romania
CRG	Centre for Genomic Regulation (project partner)
CVP	Commercialisation Voucher Programme
CzAS	The Czech Academy of Sciences
DAAD	German Academic Exchange Service
DERCI	The Europe of Research and International Cooperation Department
DFG	Deutsche Forschungsgemeinschaft
DG SANTE	Directorate General Health and Food Safety
EC	European Commission
EIT	European Institute of Innovation and Technology
EODY	Hellenic Centre for Disease Control and Prevention
ERC	European Research Council
ETAg	The Estonian Research Council
EU	European Union
EVI	European Vaccine Initiative (project partner)



Abbreviation, Acronym	Description
FCT	Fundação para a Ciência e a Tecnologia
FNR	Luxembourg National Research Fund
FNRS	Fund for Scientific Research
FORTE	Swedish Research Council for Health, Working Life and Welfare
FORTH	Foundation for Research and Technology – Hellas
FWF	Austrian Science Fund
FWO	Research Foundation Flanders
H2020	Horizon 2020
HRS4R	Human Resource Excellence for Research label
HSCM	Hellenic Society of Chinese Medicine
ICGEB	International Centre for Genetic Engineering Biotechnology
IFD	Innovation Fund Denmark
INNO TSD	INNO TSD (project partner)
INSERM	Institut national de la Recherche Medicale
ISCP	International Strategic Collaboration Programme – China/Ireland
LCS	Latvian Council of Science
MAECI	Italian Ministry of Foreign Affairs and International Cooperation
MCST	Malta Council for Science and Technology
MIUR	Ministry of Education, Universities and Research
MoST	Ministry of Science and Technology
MS	Member States
NCN	National Science Centre
NKPs	National Key R&D programmes
NMP	National Science and Technology Project
NRDI	National Research, Development and Innovation office
NSFC	National Nature Science Foundation of China
NWO	Netherlands Organization for Scientific Research
R&D	Research and Development
RPF	Cyprus Research Promotion Foundation
S2i	Steinbeis 2i GmbH (project coordinator)



Abbreviation, Acronym	Description
SDC	Sino-Danish Center for Education and Research
SDG	United Nations Sustainable Development Goals
SME	Small and Medium-sized Enterprises
SSF	Swedish Foundation for Strategic Research
SPI	Sociedade Portuguesa de Inovação (project partner)
SRDA	Slovak Research and Development Agency
STI	Science, Technology and Innovation
STINT	Swedish Foundation for International Cooperation in Research and Higher Education
S&T LinkedIn	Science and Technology LinkedIn (project partner)
TA CR	Technology Agency of the Czech Republic
TEKES	Finnish Funding Agency for Technology and Innovation
TPD	Technology Development Programme
UEFISCDI	Executive Agency for Higher Education, Research, Development and Innovation Funding
UN	United Nations
VINNOVA	Swedish Agency for Innovation Systems

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Executive Summary

This document has been developed under the SENET project, funded by the Horizon 2020 (H2020) programme from the European Commission (EC). The project aims to create a sustainable health networking and knowledge hub between Europe and China. This report “Map of major funding agencies and stakeholders in Europe and China” aims to provide an extensive mapping of the main funding agencies, schemes, programmes and actors, as well as the latest developments in funding programmes in both Europe and China. This mapping exercise aims to support joint Science, Technology and Innovation (STI) cooperation actions between the European Union (EU) and China, helping interested researchers, innovators and other stakeholders to obtain relevant information on the main funding agencies, schemes, programmes, and actors from both regions. This report will be extensively disseminated through different project channels (e.g. Twitter, WeChat and project website).

The funding agencies in Europe and China mapped in this report provide the reader with information about the overall landscape of the main agencies providing funding programmes and opportunities in the EU, EU Member States (MS) and China. The selected funding agencies and programmes have a focus on the health topic, either as part of a more general agency or programme, or those that are specifically targeting health. Concerning the major funding agencies in Europe and China, the report identifies a total of 76 – from the EU (four agencies), EU Member States (MS) (63 agencies) and China (nine agencies). The following aspects for each agency are included: name, main objective (including main programmes offered), contacts and webpage. On the Chinese side, a set of funding agencies at the national level are considered as part of the China STI system - Natural Science Foundation of China (NSFC), the Ministry of Science and Technology (MoST) and the China Academy of Science of Medical Sciences (CAMS). In addition, the report analyses some relevant agencies at the Chinese provincial level from the first-tier cities: Beijing, Shanghai, Guangdong, Zhejiang and Jiangsu.

Regarding the identified health-related funding schemes between the EU and China, the report maps a set of relevant funding programmes that focus on health. The mapping describes different schemes and programmes that are of relevance to the STI health ecosystem – some of these opportunities are open for application while others are already closed. For each scheme and programme, the report describes the key objectives, research fields, funding available, eligibility, duration of the project, deadline for submission and contact website. According to the mapping developed, these programmes are mostly promoted by governmental agencies, providing numerous research opportunities, namely on health-related topics. In addition, the report maps a set of research and innovation actors that are responsible for the different schemes and programmes identified previously. Finally, the document presents and describes eight joint initiatives and/or successful projects that promote cooperation between EU and China, highlighting the existing health-related actions, the main actors and outcomes/achievements.

Furthermore, the report analyses the latest developments in terms of funding programmes from the EC and the EU-China co-funding mechanism. This section provides relevant information on the latest updates regarding these two funding schemes, detailing the main pillars, the funding for researchers and the funding application process.

The terms and provisions of the EU Grant Agreement (and its annexes) and the SENET Consortium Agreement will prevail in the event of any inconsistencies with recommendations and guidelines defined in this report.

1. Introduction

This report “Map of major funding agencies and stakeholders in Europe and China” fits under Work Package 1 – Assessment of strategic health priorities and the health research and innovation landscape in Europe and China of the SENET project. Work Package 1 focuses on the analysis and consolidation of existing knowledge regarding the current strategic health priorities and initiatives between Europe and China. Within this context, this document aims to provide an extensive mapping of the main funding agencies, schemes, programmes, and actors in both Europe and China. The mapping has been developed based on the following:

- Desk research (literature and document analysis) to review the different agencies, schemes, programmes, and actors in both Europe and China.
- Focus on both national and regional mechanisms – EU and EU MS levels and Chinese national and provincial levels.
- Insights and experience from the SENET consortium partners from both Europe and China to identify the main agencies, schemes, programmes and actors that were used in the mapping.
- Take into account the outputs under the report “Scoping paper: Review on health R&I priorities in Europe and China”, namely the main aspects concerning funding mechanisms and priorities between the EU and China analysed in the report.

As previously stated, this report maps different funding agencies, schemes, programmes, and actors. Thus, this document contains the following sections:

- **Major funding agencies in Europe and China.** This section provides an outline of the major funding agencies in both Europe and China. In particular, it describes the main activities of each funding agency, detailing its main funding strategy agenda in both national and international levels. These agencies are focused on promoting international cooperation and facilitating science and technology research funding in high-level scientific activities.
- **Health-related funding schemes and programmes (in the EU, EU MS, and China).** This section introduces the funding schemes and programmes focused on health research fields. In section 3.1, it includes the health-related funding schemes and programmes in the EU and EU MS – most of the funding programmes are launched at the national level. In section 3.2, it presents the funding programmes from the Chinese side, including key research and development (R&D) programmes focused on health.
- **Main health research and innovation actors in EU-China joint initiatives.** This section describes a set of health actors involved in the main initiatives and projects between the EU and China. The projects and initiatives described are focused on supporting R&D actions between regions, focusing on the health thematic.
- **Latest developments in funding programmes.** This section describes the latest updates on funding programmes in the EU and China, namely by introducing Horizon Europe and the co-funding mechanism in China programmes.

The map of major funding agencies and stakeholders in Europe and China should serve as an important tool for potential European and Chinese research-related stakeholders to obtain relevant and detailed information regarding the main funding agencies, schemes, programmes, and actors in both Europe and China.

2. Major funding agencies in the EU and China

This section aims to map the major funding agencies among the EU, EU MS, and China, providing information on their main activities, objectives and relevant initiatives associated. Moreover, the main public contact available for each agency is presented in each table. A summary table listing all the funding agencies mapped under this section is presented in the Annex.

2.1 European funding agencies

As previously described, this section will focus on listing the major funding agencies related to health research and innovation in both the EU and in each of the EU MS. In order to develop the mapping for the EU and the EU MS funding agencies, the following selection criteria were applied:

- Funding agencies that are part of / managed by governmental organisations.
- Funding that is applied to STI actions and projects.
- Focus on health-related topics – either as part of a more general agency or programme, or specifically focused on health.
- Promoting international cooperation – with a particular focus on China.
- Having joint cooperation agreements with Chinese agencies.

According to the selection criteria applied, the funding agencies mapped are considered as some of the major agencies which are governed by a specific local government within the different EU MS. At the EU level, agencies within the EC are prioritised. Moreover, funding agencies with a focus in STI that strengthen the link between science and society, and raise awareness for research actions in the health area are considered as a priority – this applies to both the EU and EU MS levels. Regarding the international programmes, the selected funding agencies are considered to be actively involved in the formulation of international research policy and in promoting international cooperation, with a particular focus on China. It is also relevant to highlight that most EU and EU MS agencies listed have established joint cooperation agreements with Chinese governmental institutions, which supports the development of partnerships and exchanges for both sides.

Taking this into account, a total of 67 agencies were identified under this report. From these, four are from the EU (DG RTD, DG SANTE, CHAFEA and ERC), while 63 are from the 28 EU MS. The complete mapping of these funding agencies can be found in the following.

Funding agencies at EU level

Table 1 - European Commission - DG RTD

Funding agency	European Commission – DG RTD
Description of the agency	
<p>This Commission department is responsible for EU policy on research, science and innovation, with a view to help create growth and jobs and tackle our biggest societal challenges.</p> <p>The mission of DG RTD is to:</p> <ul style="list-style-type: none"> • Boost investment and creating jobs • Bring down barriers to unlock online opportunities • Make energy more secure, affordable and sustainable • Develop A deeper and fairer internal market • Step up cooperation on security and justice in the EU and preserving the rule of law • Towards a European agenda on migration • Strengthen the global role of Europe <p>Health research is one of the main focused areas of DG RTD, providing Information on policies, strategy and funding in health research and innovation. Public health policies are aimed at sustained population-wide health improvement and reduction of health inequalities. Public health research plays a key role in providing the evidence base needed to support the development and monitoring of health policies.</p>	
Contact	<p>Commissioner Carlos Moedas Directorate-General for Research and Innovation European Commission 1049 Bruxelles Belgium Phone: +32 2 299 11 11</p>
Source	https://ec.europa.eu/research/health/index.cfm

Table 2 - European Commission - DG SANTE

Funding agency	European Commission – DG SANTE
Description of the agency	
<p>This Commission’s department is responsible for EU policy on food safety and health and for monitoring the implementation of related laws. The mission of DG Health and Food Safety (DG SANTE) is to:</p> <ul style="list-style-type: none"> • Improve and protect human health, and support the modernisation of Europe's health systems; • Ensure that all food, feed and medicinal products marketed in the EU are safe and that EU standards are promoted globally; • Protect animal health and welfare and plant health; • Contribute to a well-functioning and fair internal market in food, feed, agricultural and medical products. 	



Contact	Commissioner Vytenis Andriukaitis Directorate-General for Health and Food Safety European Commission 1049 Brussels Belgium Phone: +32 2 299 11 11
Source	https://ec.europa.eu/info/departments/health-and-food-safety_en#

Table 3 - European Commission - Consumers, Health, Agriculture and Food Executive Agency (Chafea)

Funding agency	European Commission - Chafea
Description of the agency	
<p>The Chafea is an Executive Agency set up by the EC to manage four EU programmes on its behalf:</p> <ul style="list-style-type: none"> • Health Programme • Consumer Programme • Better Training for Safer Food initiative – BTSF • Promotion of Agricultural Products Programme <p>Chafea is based in Luxembourg and works in close cooperation with the European Commission and in particular with the following Directorates General:</p> <ul style="list-style-type: none"> • Directorate General for Health and Food Safety - DG SANTE • Directorate General for Justice and Consumers - DG JUST • Directorate General for Agriculture and Rural Development - DG AGRI • Directorate General for Internal Market, Industry, Entrepreneurship and SMEs - DG GROW <p>Their mission is to provide high quality support to their beneficiaries and stakeholders, and to ensure that the actions funded by the four programmes deliver results and provide the Commission with valuable input for its policy tasks.</p>	
Contact	12, Rue Guillaume Kroll, L-1882 Luxembourg E-mail: chafea@ec.europa.eu Phone: +35 2 4301 32015
Source	http://ec.europa.eu/chafea/about/index_en.htm

Table 4 - European Research Council (ERC)

Funding agency	European Research Council (ERC)
Description of the agency	
<p>The ERC's mission is to encourage the highest quality research in Europe through competitive funding and to support investigator-driven frontier research across all fields, on the basis of scientific excellence. The ERC expects that its grants will help to bring about new and unpredictable scientific and technological discoveries - the kind that can form the basis of new industries, markets, and</p>	



<p>broader social innovations of the future. The focus on health is also part of the ERC grants, particularly on the areas of diagnostic tools, therapies and public health. The ERC aims to:</p> <ul style="list-style-type: none"> • Support the best of the best in Europe across all fields of science, scholarship and engineering • Promote wholly investigator-driven, or 'bottom-up' frontier research • Encourage the work of the established and next generation of independent top research leaders in Europe • Reward innovative proposals by placing emphasis on the quality of the idea rather than the research area • Raise the status and visibility of European frontier research and the very best researchers of today and tomorrow 	
Contact	<p>Covent Garden Place Charles Rogier 16 1210 Saint-Josse-ten-Noode Brussels Belgium</p>
Source	<p>https://erc.europa.eu/</p>

Funding agencies at EU MS level

Austria

Table 5 - Austrian Science Fund (FWF): Fonds zur Förderung der wissenschaftlichen Forschung

Funding agency	Austrian Science Fund (FWF): Fonds zur Förderung der wissenschaftlichen Forschung
Description of the agency	
<p>The purpose of the FWF is to support the ongoing development of Austrian science and basic research at a high international level.</p> <p>To strengthen Austria's international performance and capabilities in science and research as well as the country's attractiveness as a location for high-level scientific activities, primarily by funding top-quality research projects for individuals and teams and by enhancing the competitiveness of Austria's innovation system and its research facilities. Moreover, FWF has a bilateral agreement with the NSFC.</p> <p>Example of some relevant projects on the health sector:</p> <ul style="list-style-type: none"> • Medical research network • Drug management • Miraculous-Life • Teleacceleromics 	
Contact	<p>Reinhard Belocky, Dr. Department: Strategy - International Programmes Phone: +43 1 505 67 40 - 8701 E-mail: reinhard.belocky@fwf.ac.at</p>
Source	<p>https://www.fwf.ac.at/en/</p>

Table 6 - Austrian Institute of Technology (AIT)

Funding agency	Austrian Institute of Technology (AIT)
Description of the agency	
<p>AIT is strategically positioned as a key player in the Austrian and European innovation system by performing applied research and enabling the market exploitation of innovative infrastructure related solutions. The functionality of "bridging the gap" between research and technology commercialisation is a key aspect of developing new technologies and enabling an economic boom. AIT's function is to provide a research environment to help key industries facing mid- to long-term challenges.</p> <p>The institute is active in health research with regard to new technologies such as bio informatics, medical sensing and molecular imaging. AIT has an eHealth platform, as one of their telemedical solutions, that enables new approaches to a modern health care system.</p>	
Contact	E-mail: office@ait.ac.at
Source	https://www.ait.ac.at/en/

Belgium

Table 7 - Research Foundation Flanders (FWO)

Funding agency	Research Foundation Flanders (FWO)
Description of the agency	
<p>Supports fundamental and strategic scientific research, stimulates international cooperation and promotes equal opportunity. FWO stimulates international cooperation and encourages mobility by giving researchers the opportunity to gain experience or work as members of international research groups or by attracting researchers from abroad. Examples of health-related programmes:</p> <ul style="list-style-type: none"> • Research Projects Red Nose Day • In the context of "Red Nose Day" the Research Foundation – Flanders (FWO) provides up to €1,000,000 of funding in support of two-year research projects on "young people with mental health problems." • TBM (Applied Biomedical Research with a Primary Social finality) projects • In the long term, the TBM programme aims at contributing to the implementation of (new) therapies, diagnostic techniques and preventive methods, which, without government funding, would not make it to the patient due to a lack of industrial interest. • ITFoC: Information Technology: Future of Cancer Treatment 	
Contact	Phone: +32 2 512 91 10 E-mail: post@fwo.be
Source	https://www.fwo.be/en/



Table 8 - Fund for Scientific Research (FNRS)

Funding agency	Fund for Scientific Research (FNRS)
Description of the agency	
<p>Promotes and supports basic scientific research in the Wallonia-Brussels region. FNRS, mainly through public subsidies, supports individual research as well as research teams that want to develop research in every field of knowledge. It grants and credits scientific prizes and promotes mobility, allowing their researchers to collaborate in transnational projects and supporting a high-level international working environment. FNRS carries out major international collaboration when it comes to the health sector. The following relevant programmes can be mentioned:</p> <ul style="list-style-type: none"> • ITFoC: Information Technology: Future of Cancer Treatment • FIIND: Ferret Interactive Integrated Neurodevelopment Atlas • MULTI-LATERAL: Multi-level Integrative Analysis of Brain Lateralization for Language 	
Contact	<p>Florence Quist E-mail: florence.quist@frs-fnrs.be Phone: +32 2 504 92 11</p>
Source	http://www.fnrs.be/

Table 9 - Belgian Science Policy Office (BELSPO) - EUROFED

Funding agency	Belgian Science Policy Office (BELSPO) - EUROFED
Description of the agency	
<p>BELSPO is the one of the main science policy offices in Belgium, representing almost 30% of the entire Belgian public budget in terms of research. Within this context, it is of major importance to the European health R&D ecosystem.</p> <p>BELSPO offers the Belgium government reliable and validated data, which allows to make decisions on specific areas of focus – health, climate change, biodiversity, energy, mobility and the information society. These major research programmes are managed by BELSPO.</p> <p>It also takes the lead on promoting research cooperation with international research networks, including China. In particular, BELSPO has launched calls for proposals and financed joint cooperation projects with Chinese entities, promoting innovation.</p>	
Contact	<p>Marieke Zwartjes Phone: +32 2 238 34 11 E-mail: marieke.zwartjes@belspo.be</p>
Source	https://www.belspo.be

Bulgaria

Table 10 - National Science Fund of Bulgaria (BNSF)

Funding agency	National Science Fund of Bulgaria (BNSF)
Description of the agency	
<p>The National Science Fund of Bulgaria provides financial support for the development of world-class scientific research and development of scientific capacity in the Republic of Bulgaria related to:</p> <ul style="list-style-type: none"> • the creation of new scientific knowledge; • Bulgarian history, language, culture and national identity; • promoting the development of natural, technical, humanitarian and social sciences; • solving problems in the fields of health, economics, education, agriculture, ecology, social processes, human resources, security and defence. <p>In 2016 and 2018, there were developed Bilateral Cooperation Programs between Bulgaria and China, related with sciences.</p>	
Contact	<p>Milena Stefanova Senior Expert Secretary of NEC in Medical and Biological Sciences Phone: +359 884 696 204 E-mail: m.stefanova@mon.bg</p>
Source	http://www.fni.bg/

Croatia

Table 11 - Croatian Science Foundation

Funding agency	Croatian Science Foundation
Description of the agency	
<p>The Foundation provides support to scientific, higher education and technological programmes and projects, fosters international cooperation, and helps the realisation of scientific programmes of special interest in the field of fundamental, applied and developmental research.</p> <p>There are not relevant enough collaboration programmes with China that are worth mentioning. However, the Foundation develops a great amount of health collaboration projects, mainly under European research programmes, such as the following:</p> <ul style="list-style-type: none"> • Detection of new protein interactions as a basis for new approaches to the treatment of human melanoma • Molecular, epidemiological and clinical features of HIV infection in Croatia • Treatment of neuropathic pain by stimulation of the spinal ganglia 	
Contact	<p>Irena Martinović Klarić, PhD Ilica 24, HR-10000 Zagreb Phone: +385 51 228 690 E-mail: imklaric@hrzz.hr</p>



Source	https://www.hrzz.hr/default.aspx?id=1166 https://euraxess.ec.europa.eu/croatia/research-croatia
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Cyprus

Table 12 - Research Promotion Foundation (RPF)

Funding agency	Research Promotion Foundation (RPF)
Description of the agency	
<p>RPF is Cyprus' national research organisation that aims to promote scientific and technological research. Through the years, they have developed several funding programs in many different areas such as, "Health and Biological Sciences", "Technology", "Sustainable Development", "Information and Communication Technologies" and "Social, Economic Sciences and the Humanities". RPF's main activity is to design, implement and the management financing programmes that focus on the promotion of research and innovation activities.</p>	
Contact	Antonis Ioulianos E-mail: aioulian@research.org.cy
Source	https://www.research.org.cy/

Czech Republic

Table 13 - Technology Agency of the Czech Republic

Funding agency	Technology Agency of the Czech Republic
Description of the agency	
<p>The Technology Agency of the Czech Republic is an organisational unit of the state that was founded in 2009. The creation of TA CR is one of the cornerstones of the fundamental reforms in R&D in the Czech Republic. The key feature of the reform was the redistribution of financial support from the national budget. The Technology Agency of the Czech Republic simplifies the state support of applied research and experimental development which has been fragmented and implemented by many bodies before the reform.</p> <p>The TA CR manages 11 programmes with different orientations. However, there is no dedicated programme to health and China. Still, in the sub-programme "DELTA2", there is the possibility for Chinese partners to participate:</p> <p>https://www.tacr.cz/index.php/en/programmes/delta-programme/sixth-call.html</p>	
Contact	Bunčák Martin Managing Director Phone: +420 234 611 211 E-Mail: martin.bunceck@tacr.cz
Source	https://www.tacr.cz/index.php/en/about-tacr.html

Table 14 - The Czech Academy of Sciences (CzAS)

Funding agency	The Czech Academy of Sciences (CzAS)
Description of the agency	
<p>The primary mission of the CAS and its institutes is to conduct basic research in a broad spectrum of the natural, technical and social sciences and the humanities. This research, whether highly specialised or interdisciplinary in nature, aims to advance developments in scientific knowledge at the international level, while also taking into account the specific needs of both Czech society and national culture. Scientists of the Academy institutes also participate in education, particularly through doctoral study programmes for young researchers and by teaching at universities as well. The Academy also fosters collaboration with applied research and industry. The integration of Czech science into the international context is being promoted by means of numerous joint international research projects and through the exchange of scientists with counterpart institutions abroad. Bilateral programmes with China include: Chinese Academy of Sciences (CAS), Mobility Projects (MP), Chinese Academy of Social Sciences (CASS), National Natural Sciences Foundation of China (NSFC), Mobility Plus Projects (MPP).</p>	
Contact	<p>Ms Lyudmyla Tsyachna European Research Area Secretary of the Council for Support of the CAS Participation in European Integration of Research and Development (REI) E-mail: tsyachna@kav.cas.cz Phone: +420 221 403 461</p>
Source	http://www.avcr.cz/en/academic-public/international-affairs/bilateral-cooperation/partner-organizations/

Denmark

Table 15 - Ministry of Higher Education and Science

Funding agency	Ministry of Higher Education and Science
Description of the agency	
<p>The Independent Research Fund Denmark is one of the institutions from the Danish Ministry of Higher Education and Science, with the overall objective of granting funds to research and innovation in the country. The primary aim of Independent Research Fund Denmark is to support and promote the most original ideas and initiatives within Danish research.</p> <p>The Fund supports specific time-limited research activities while it strengthens the dissemination and application of research findings as well as participates in international research collaboration.</p> <p>The Independent Research Fund Denmark provides funds to a great number of projects in a great variety of sectors, namely within the health area. Below, a few examples of health-related projects:</p> <ul style="list-style-type: none"> • Health in Childhood following Assisted Reproductive Technology (HiCART) 	

	<ul style="list-style-type: none"> • The SmartSleep programme. Documenting health consequences of smartphone interrupted sleep through a pioneering combination of high-resolution smartphone data and rich clinical health data. • Activation of ATR kinase signalling responses in health and disease • AniGen: Animal genomes as model for human health
Contact	<p>International Network Programme Ditte Nissen Lund Phone: +45 72 31 83 77 E-Mail: dnl@ufm.dk</p> <p>Mr Adam Baden Phone: +45 72 31 82 93 E-mail: aba@ufm.dk</p>
Source	https://ufm.dk/en

Table 16 - Innovation Fund Denmark (IFD)

Funding agency	Innovation Fund Denmark (IFD)
Description of the agency	
<p>The IFD funds project ideas from companies and enterprises, research organisations and individual researchers for the benefit of the Danish society. The work is mainly focused on, societal challenges, innovation and talent.</p> <p>Different funding programmes for international collaboration. Currently no specific programme for health research with China, however, there is a bilateral program focussing on energy, water and climate.</p> <p>The program “Grant Solutions” funds any legal entity outside of Denmark to work on ambitious innovation projects with excellent science and strategic research that contributes to create new and tangible solutions to important societal challenges.</p>	
Contact	<p>Jens Peter Vittrup Phone: +45 6190 5023 E-Mail: jens.peter.vittrup@innofond.dk</p> <p>Martin Kyvsgaard Phone: +45 6190 5081 E-Mail: Martin.Kyvsgaard@innofond.dk</p>
Source	https://innovationsfonden.dk/da



Estonia

Table 17 - The Estonian Research Council (ETAg)

Funding agency	The Estonian Research Council (ETAg)
Description of the agency	
<p>ERC supports researchers, award research grants, and facilitate applied research in the fields of smart specialisation. International partnerships and co-operating funding:</p> <ul style="list-style-type: none"> • European Molecular Biology Organisation • European Research Area Networks (ERA-NETs) • Mobilitas Plus partnership and Co-operation Funding <p>Estonia and China have several state level agreements e.g. the Agreement between the governments of the Republic of Estonia and The People’s Republic of China on collaboration in science and technology signed in 1992.</p> <p>In the framework of the strategy for internationalisation of higher education 2016-2020, China is among the main target countries from where Estonia welcomes international students.</p>	
Contact	<p>Soola 8 Tartu 51004 Estonia Phone: +372 730 0324 E-Mail: etag@etag.ee</p>
Source	<p>http://researchinestonia.eu/funding/ https://www.etag.ee/en/ https://www.euraxess.ee/</p>

France

Table 18 - The French National Research Agency (ANR)

Funding agency	The French National Research Agency (ANR)
Description of the agency	
<p>The French National Research Agency (ANR) is a public administrative institution under the authority of the French Ministry of Higher Education, Research and Innovation. The agency funds project-based research carried out by public operators cooperating with each other or with private companies. Since 2010, the Agency has also been the national operator managing the Investments for the Future programmes (PIA 1, 2 and 3) in the field of higher education and research. This role involves managing the calls for proposals, organising the selection, negotiating agreements, providing funding, monitoring and reviewing the impact of the projects and the activities of the programme that fall under this heading. Some relevant funded projects concerning China and/or the health sector can be found below:</p> <ul style="list-style-type: none"> • Local impacts and perceptions of global changes: health, biodiversity and zoonoses in Southeast Asia • Chinese-built hospitals in Africa as a new health intervention 	



	<ul style="list-style-type: none"> • Health risk market: construction, governance, social innovation • Tackling Inequalities in Health and Access to Health Care in African and Middle-Eastern Countries: Challenges of Measurement and Explanation
Contact	50, avenue Daumesnil 75012 Paris France Phone: +33 178 098 000
Source	https://anr.fr/en/

Table 19 - Centre National de la Recherche Scientifique (CNRS)

Funding agency	Centre National de la Recherche Scientifique (CNRS)
Description of the agency	
<p>The French National Centre for Scientific Research is among the world's leading research institutions. Its scientists explore the living world, matter, the Universe and the functioning of human societies. The CNRS is a reference in the world of research and development, as well as for the general public. Successful cooperation between the CNRS and its international partners has led to a number of ground-breaking discoveries. The advantages offered by the organisation make its researchers partners of choice for important international projects.</p> <p>The CNRS has set up structured cooperation mechanisms to strengthen its presence worldwide. These include in particular 37 international joint units.</p>	
Contact	3, rue Michel-Ange, Paris 16e
Source	https://www.cnrs.fr/

Table 20 - Institut national de la Recherche medicale (INSERM)

Funding agency	Institut national de la Recherche medicale (INSERM)
Description of the agency	
<p>INSERM is the only public research organisation in France entirely dedicated to human health. INSERM is a public scientific and technological institute which operates under the joint authority of the French Ministries of Health and Research. It also partners with other international institutions that are committed to scientific challenges and progress in these fields.</p> <p>Thematic National Plans:</p> <ul style="list-style-type: none"> • The 2014-2019 Cancer Plan • The French Plan for Genomic Medicine 2025, developed by INSERM and its Aviesan partners, • The Interministerial Antibiotic Resistance Management Programme aims to slash the use of antibiotics by 25% by 2018 • The presidency of the Neurodegenerative Diseases Plan (PMND) is held by the INSERM research steering committee, and the ITMO Neurosciences is coordinating the research 	

	<p>component of the plan.</p> <ul style="list-style-type: none"> INSERM was involved in the second National Rare Diseases Plan, most notably through the activities of its Orphanet and BIOBANQUES infrastructures.
Contact	<p>Phone: +33 1 55 74 31 95</p> <p>E-Mail: bir@inserm.fr</p>
Source	<p>https://www.inserm.fr/en/about-inserm/map-inserm-structures</p>

Table 21 - Institut Pasteur

Funding agency	Institut Pasteur
Description of the agency	
<p>The Institut Pasteur is actively involved in monitoring infectious diseases. It is home to 14 National Reference Centers (CNRs), in Paris and Lyon, supported by four associated CNR laboratories at the Institut Pasteur in French Guiana, and six World Health Organization Collaborating Centers (WHOCCs) in Paris.</p> <p>Research at the Institut Pasteur is developed through:</p> <ul style="list-style-type: none"> Research conducted at all levels of life, from molecules to individuals and populations; Multidisciplinary strategies, focusing on molecular and cellular approaches as well as bioinformatics, biophysics, chemistry and nanotechnologies; Unique technological facilities, including the most powerful microscope in the world (Titan); An international network of 33 institutes, (the only one of its kind in the world), which is present on every continent. <p>Each year the Institut Pasteur Department of International Affairs allocates funding to promote and aid completion of doctoral thesis, postdoctoral internships, traineeships and trainings within the Institut Pasteur International Network to improve scientific capabilities and human resources around the world. It also promotes international calls, courses and partnerships. Through its international network, the institute has established the Institut Pasteur of Shanghai, within the Chinese Academy of Sciences.</p>	
Contact	Phone: +33 01 45 68 80 00
Source	https://www.pasteur.fr/fr

Table 22 - Association pour la Recherche sur le Cancer (ARC)

Funding agency	Association pour la Recherche sur le Cancer (ARC)
Description of the agency	
<p>ARC is a French association with the main goal to fight cancer and eliminate mortality associated to this disease. The ARC finances basic, translational or clinical research including epidemiology, human and social sciences. To fulfil this mission, ARC allocates different types of funding via its numerous calls for proposals. ARC also supports research via partnerships with other organisations that finance science. One of the best examples is the partnership with the INSERM and the CNRS to support young</p>	



and talented researchers in order to help them create their own team through the ATIP-AVENIR programme.	
Contact	https://www.fondation-arc.org/contact - direct contact through the website
Source	https://www.fondation-arc.org/

Table 23 - Fondation Maladies Rares

Funding agency	Fondation Maladies Rares
Description of the agency	
<p>The “Fondation Maladies Rares” is an alliance of stakeholders created to promote and support basic and clinical research towards more effective health care for patients who suffer from rare diseases. This foundation was created after the 2nd National Plan for Rare Diseases (2011-2014) by four main co-founders, the “Association Française contre le Myopathies (AFM)”, the “Alliance Maladies Rares”, INSERM and the board of directors of major French universities and hospital centres. The aim of the Foundation is to promote synergies and to associate capacities of its members and partners in order to support the development of new therapies and also the development of research on rare diseases, including basic and clinical science, approaches for clinical and biological data collection, supports to early phases of clinical trials and international cooperation. This foundation acts as a strategic centre, brings financial support to innovative projects and stimulate networks between researchers and physicians. Since its creation in 2012, the Fondation Maladies Rares has funded 344 projects (out of the more of 900 submitted) for a cumulated amount of 10.3M€.</p>	
Contact	contact@fondation-maladiesrares.com
Source	https://fondation-maladiesrares.org/

Table 24 - French Muscular Dystrophy Association (AFM-Téléthon)

Funding agency	French Muscular Dystrophy Association (AFM-Téléthon)
Description of the agency	
<p>The AFM-Téléthon is composed of patients and their families who are affected by a genetic, rare, progressive and severely disabling illness: neuromuscular diseases. In order to fight those diseases, AFM-Téléthon chose to initiate innovative actions and a strategy of general interest that benefits all rare diseases and all persons with disabilities.</p> <p>AFM-Téléthon supports the development of innovative therapies for rare diseases. The Telethon fund-raising event takes place every year on the first weekend of December with the help of hundreds of thousands of volunteers and millions of participants. AFM-Téléthon launches Call for Proposals that provide grants for the development of research projects.</p>	
Contact	Phone number: +33 1 69 47 28 28
Source	http://www.afm-telethon.com/the-telethon.html



Finland

Table 25 - Academy of Finland (AKA)

Funding agency	Academy of Finland (AKA)
Description of the agency	
<p>AKA is an agency within the administrative branch of the Finnish Ministry of Education, Science and Culture. Its activities cover the full spectrum of scientific disciplines. It supports and facilitates researcher training and research careers, internationalisation and the utilisation of research results. Each year, its funding contributes to some 2,700 people’s work (FTEs) at universities and research institutes. Some interesting health funded projects are presented below:</p> <ul style="list-style-type: none"> • Biogeochemical and biophysical feedbacks from forest harvesting to climate change • Revealing the last unknown steps in cell wall lignification • Interaction biology of Heterobasidion mycoviruses • Air pollution exposures at Finnish levels – effects on birth outcomes, childhood asthma and mortality (APPEAL) • Molecular Thermobiology of Mitochondria 	
Contact	Hakaniemenranta 6 POB 131 FI-00531 Helsinki Phone: +358 295 335 000
Source	https://www.aka.fi/en/

Table 26 - Finnish Funding Agency for Technology and Innovation (TEKES)

Funding agency	Finnish Funding Agency for Technology and Innovation (TEKES)
Description of the agency	
<p>Established in 1983, TEKES is the most important publicly funded expert organisation for financing research, development and innovation in Finland. Business Finland aims to create new growth by supporting companies to go global as well as funding innovations.</p> <p>Health related funded projects can be found below:</p> <ul style="list-style-type: none"> • 3D human mini tumours grown on nano-fibrillar cellulose hydrogel matrix for cancer characterisation and drug testing • Health data Mining • HomeCare2020 	
Contact	kirjaamo@businessfinland.fi
Source	http://www.tekes.fi



Germany

Table 27 - Federal Ministry of Education and Research (BMBF)

Funding agency	Federal Ministry of Education and Research (BMBF)
Description of the agency	
<p>The BMBF supports innovative projects and ideas as well as collaboration activities in the areas of research and education with partners all over the world. Funding is available to scientific institutions such as universities or research organisations as well as enterprises. No individual funding is being granted by the BMBF. Standardised EU-regulations are applied to make decisions on which projects are being funded.</p> <p>Supported subject areas include: Health Research; High-tech and Innovation; Environment and Climate; Digital World; Energy and Economy.</p> <p>Health research funding examples: Personalised medicine; Antibiotic resistance; and Prevention and nutrition research.</p>	
Contact	<p>Federal Funding Advisory Service on Research and Innovation Phone: +49 30 20199 – 518 E-Mail: beratung@foerderinfo.bund.de Coordination Global Health Dr. Detlef Böcking (+49 228 3821-1118) Coordination International Dr. Hubert Misslisch (+49 228 3821-1271)</p>
Source	<p>http://www.internationales-buero.de https://www.bmbf.de/en/health-research-2308.html</p>

Table 28 - Deutsche Forschungsgemeinschaft (DFG)

Funding agency	Deutsche Forschungsgemeinschaft (DFG)
Description of the agency	
<p>The DFG is the central research funding organisation in Germany whose main task is the selection and funding of outstanding research projects in higher education and public research institutions while not running any research establishment itself. The DFG manages a yearly budget of around 3.2 billion EUR which is mainly provided by the Federal Government and the German states.</p> <p>Specific programmes for international collaboration are available, namely the Sino-German Centre in Beijing – Joint-venture of the DFG and the National Natural Science Foundation of China.</p>	
Contact	<p>Kennedyallee 40 53175 Bonn Germany Phone: +49 228 885-1 E-Mail: postmaster@dfg.de</p>
Source	<p>https://www.dfg.de/en/index.jsp</p>



Table 29 - German Academic Exchange Service (DAAD)

Funding agency	German Academic Exchange Service (DAAD)
Description of the agency	
<p>The DAAD is the German national agency for EU higher education cooperation and is the world's largest funding organisation for the international exchange of students and researchers. The main objective is to promote the internationalisation of the academic and scientific research system and to support the developing countries in establishing their own system of higher education. The DAAD manages a yearly budget of around 522 million EUR which is mainly provided by various German ministries and the EU. Funding is not focused on a certain area of research. Several funding schemes are available for researchers to go to China e.g. "Bilateral Exchange for Academics".</p>	
Contact	Kennedyallee 50 53175 Bonn Germany Phone: +49 228 882-0
Source	https://www.daad.de/en/

Table 30 - Alexander von Humboldt Foundation

Funding agency	Alexander von Humboldt Foundation
Description of the agency	
<p>The Alexander von Humboldt Foundation acts as an intermediary organisation of German foreign cultural and education policy. It promotes international cultural dialogue and academic exchange by offering sponsorships to individual researchers at all career stages. The Alexander von Humboldt Foundation manages a yearly budget of around 127 million EUR which is mainly provided by federal sources but also third-party funding and the EU. Funding is not bound to a certain area of research but focuses on the individual's academic achievements. Several funding schemes are available for researchers to go to China or from China to Germany e.g. "The German Chancellor Fellowship for tomorrow's leaders".</p>	
Contact	Jean-Paul-Str. 12 53173 Bonn Germany Phone: +49 228-833-0 E-mail: info@avh.de
Source	https://www.humboldt-foundation.de/web/home.html

Table 31 - German Cancer Aid

Funding agency	German Cancer Aid
Description of the agency	
<p>German Cancer Aid is a foundation that supports innovative research projects in all areas of oncology, both clinical oriented and experimental or theoretical projects. This non-profit foundation aims to improve care for cancer patients, promote research and increase the awareness through information, education and public campaigns. Even though cancer is the main research subject, since its foundation, the German Cancer Aid always tried to have a wide influence. Therefore, to complement the German Cancer Aid's action, the Mildred Scheel Foundation for Cancer Research (1976), the Mildred Scheel Society (1977), the Dr. Mildred Scheel Academy for Research and Training (1992) and the Foundation for Helping Children with Cancer (1996) were created.</p>	
Contact	E-Mail: deutsche@krebshilfe.de
Source	https://www.krebshilfe.de/forschen/foerderung/

Greece

Table 32 - Foundation for Research and Technology – Hellas (FORTH)

Funding agency	Foundation for Research and Technology – Hellas (FORTH)
Description of the agency	
<p>FORTH is a funding agency that develops and promotes research and innovation in many different areas of knowledge, that range from electronic structures to astrophysics. With many years of working experience, FORTH is a very active player in the international cooperation field, having been part of several international project's consortiums, with many contacts in China.</p> <p>FORTH conducts specialised scientific research in strategic high-added value sectors, focusing on interdisciplinary R&D activities in areas of major scientific, societal and economic interest, namely in: Molecular Biology and Genetics, Biotechnology, Bioinformatics, Precision Medicine, Systems Biology and Human and Social Sciences.</p> <p>FORTH developed the HYGElAnet network which aims at strengthening health care in the Region of Crete guided by the principles of universality, accessibility, comprehensiveness, portability and public administration.</p>	
Contact	Dimitris Filippidis E-Mail: filippidis@praxinetwork.gr
Source	https://www.forth.gr/

Table 33 - Hellenic Centre for Disease Control and Prevention (EODY)

Funding agency	Hellenic Centre for Disease Control and Prevention (EODY)
Description of the agency	
<p>Founded in 1992, EODY is a legal entity covered by private law. It is under the control and authority of the Ministry of Health and is in close collaboration with the local public health authorities. The purpose of the organisation is to coordinate and support public health efforts to monitor and prevent infectious and chronic diseases, accidents and environmental health efforts.</p> <p>In particular, the main objectives of the organisation are:</p> <ul style="list-style-type: none"> • Epidemiologic surveillance and intervention • Development of programmes for the dissemination of information, care, nursing and social and psychological support of infected individuals, such as HIV/AIDS, Hepatitis, etc. • Planning and materialisation of actions for health education, prevention, research, surveillance and treatment of infectious and non-infectious diseases <p>Research activities relevant to its aim: Protection and promotion of issues related to public health. It also acts as the Advisory Board to the Ministry of Health regarding public health issues and policies.</p>	
Contact	E-Mail: info.keelpno@gmail.com
Source	https://eody.gov.gr/en/

Hungary

Table 34 - National Research, Development and Innovation office (NRDI)

Funding agency	National Research, Development and Innovation office (NRDI)
Description of the agency	
<p>The function of the NRDI Fund is to complete and balance EU funds in line with domestic characteristics, including geographical considerations. This reason is that Operational Programmes financed from the EU's Structural Funds primarily focus on reducing the lag of less developed regions, so they are mostly available to rural applicants. Relevant programmes and projects funded:</p> <ul style="list-style-type: none"> • Molecular fingerprints of synaptic functions • The role of inflammatory processes in the diseases of the nervous system • Breakthrough in the therapeutic treatment of leukaemia in adults with Hungarian contribution • Reverse Osmosis for Clear Water • University-industry cooperation for molecular diagnostics & biomarker discovery 	
Contact	E-Mail: nkfialap@nkfih.gov.hu
Source	https://nkfih.gov.hu/

Ireland

Table 35 - Science Foundation Ireland

Funding agency	Science Foundation Ireland
Description of the agency	
<p>Aims at promoting and assisting the development and competitiveness of organisations. Science Foundation Ireland provides grants for researchers from around the world who wish to relocate to Ireland and those already based in Ireland, for outstanding investigators, for conferences and symposia, and for collaboration with industry.</p> <p>Funded projects on health are:</p> <ul style="list-style-type: none"> • ERANet on Nanomedicine (EuroNanoMed) • A Heathy Diet for a Healthy Life (ERA-HDHL) • EU Joint Programme – Neurodegenerative Disease Research (JPND) • Centres of Excellence in Neurodegeneration pathfinder II (CoEN) 	
Contact	E-mail: info@sfi.ie
Source	http://sfi.ie/

Table 36 - Health Research Board

Funding agency	Health Research Board
Description of the agency	
<p>The main objective of the Health Research Board is to improve people's health and to enhance healthcare delivery. They have their own research team and fund other teams in order to deliver real benefits for people's health, provide information and evidence so other people take informed decisions, and promote training in health research and improvements in advanced health research and data infrastructure.</p> <p>Open calls:</p> <ul style="list-style-type: none"> • NCI-HRB Cancer Prevention Fellowships Programme 2020 • SFI-HRB-Wellcome Biomedical Research Partnership • Research Collaborative in Quality and Patient Safety <p>Relevant funded programmes:</p> <ul style="list-style-type: none"> • European Joint Programme on Rare Diseases (EJP RD) 1st Joint Call 2019: Translational research projects to accelerate diagnosis and/or explore disease progression and mechanisms of rare diseases • JPND Transnational Call 2019: Multinational research projects on Personalised Medicine for Neurodegenerative Diseases 	
Contact	E-Mail: gemshelp@hrb.ie
Source	https://www.hrb.ie/

Italy

Table 37 - National Research Council (CNR)

Funding agency	National Research Council (CNR)
Description of the agency	
<p>The CNR of Italy aims to perform research in its own Institutes, to promote innovation and competitiveness of the national industrial system, to promote the internationalisation of the national research system, to provide technologies and solutions to emerging public and private needs, to advise Government and other public bodies, and to contribute to the qualification of human resources. This is the largest public research institution in Italy and the only one under the Research Ministry performing multidisciplinary activities. Some relevant health programmes and initiatives:</p> <ul style="list-style-type: none"> • Neuroscience: molecular bases and clinical applications • Molecular medicine • Epidemiology and research on health services • Structure, function and design of proteins, nucleic acids and their supramolecular complexes • Molecular mechanisms and signals in the control of proliferation, differentiation and cell death. 	
Contact	<p>Consiglio Nazionale delle Ricerche Piazzale Aldo Moro,7 - 00185, Roma, Italia Phone: +39 06 49931 E-Mail: protocollo-ammcen@pec.cnr.it</p>
Source	https://www.cnr.it/en

Table 38 - Ministry of Education, Universities and Research (MIUR)

Funding agency	Ministry of Education, Universities and Research (MIUR)
Description of the agency	
<p>In charge of all education, from elementary to university and research at all levels, it funds a wide spectrum of projects both with bottom-up calls as well as thematic calls in more applied thematic. The Italian National Research Program 2015-2020 has four priority areas for applied research, of which one of them is health. The first goal of this Program is Internationalisation, by promoting the coordination and integration of national initiatives with European and global ones. To achieve the objectives of bilateral scientific cooperation, the Italian government implements agreements with other countries. Within this framework, scientific, technological and socio-economic contents and objectives linked to research take shape.</p>	
Contact	<p>Prof. Avv. Giuseppe VALDITARA Head of Department E-Mail: DPFSR.segreteria@miur.it</p>
Source	http://www.miur.gov.it/

Table 39 - The Telethon Foundation

Funding agency	The Telethon Foundation
Description of the agency	
The Telethon Foundation is a leading Italian charity organisation investing in the research of rare genetic diseases. The Telethon Institute of Genetics and Medicine (TIGEM), a Telethon Foundation organisation, was founded in 1994 as a leading Italian research centre. The Institute boasts three research programmes, Cell Biology, Molecular Therapy and Systems Biology, 10 core facilities and significant international support in the form of funding and collaboration opportunities.	
Contact	Flavio Castellacci Operations Manager E-Mail: f.castellacci@tigem.it
Source	http://www.tigem.it/

Latvia

Table 40 - Latvian Council of Science (LCS)

Funding agency	Latvian Council of Science (LCS)
Description of the agency	
<p>The LCS advises on the formulation and implementation of science, higher education and R&D policy. The Council takes active part in project based competitive R&D funding, as well as promotes the development of Latvian researcher resources and fosters international scientific cooperation. LCS has a profound role in determining the perspective directions of research and innovation, evaluating the scientific activity, designing the research policy, disseminating achievements of research, emphasising the social dimension of research. Priorities in research development, including health related topics:</p> <ul style="list-style-type: none"> • Organic synthesis, biotechnology, biomedicine and pharmacy; <p>Priorities in cooperation with the EU:</p> <ul style="list-style-type: none"> • Life sciences and biotechnology (biomedicine, drug construction, biotechnology); • Any initiative for multilateral scientific and technological cooperation in compliance with the priority criteria. 	
Contact	Bruno Andersons Phone: +371 67552554 E-Mail: bruno.andersons@edi.lv
Source	https://www.lzp.gov.lv/index.php?mylang=english



Lithuania

Table 41 - Research Council of Lithuania (LMT)

Funding agency	Research Council of Lithuania (LMT)
Description of the agency	
<p>The LMT contributes to the science policy formation and is involved in legislative issues of the Lithuanian science and studies system. The main aim of the Council is to seek that the research system efficiently contributes to the developments of national economy, international co-operation, higher education, and social development.</p> <p>Health related programmes developed:</p> <ul style="list-style-type: none"> • 2010-2014: Chronic Non-Infectious Diseases - The programme analyses the risks and impacts of chronic non-infectious of diseases and develops the theoretical basis of the health care strategy of Lithuania. • 2015-2021: “Healthy Ageing” - The purpose of the programme is to obtain new scientific knowledge required to extend the duration of a healthy and quality life in Lithuania. The programme integrates an analysis and tries to find solutions regarding issues in the healthy ageing biomedicine and social medicine of Lithuanian society. 	
Contact	<p>Gedimino av. 3, room 110 Dr. Julija Sabataitytė Chief Officer Phone: +370 676 18678 E-Mail: julija.sabataityte@lmt.lt</p>
Source	<p>http://www.euraxess.lt/lithuania/information-assistance/funding-opportunities https://www.lmt.lt/en https://www.lmt.lt/en/research-commissioned-by-the-state/national-research-programmes/healthy-ageing/795</p>

Table 42 - Agency for Science, Innovation and Technology (MITA)

Funding agency	Agency for Science, Innovation and Technology (MITA)
Description of the agency	
<p>The Agency has a mission to promote Lithuanian science integration into European research area. It administers international programmes such as FP7, EUREKA, EUROSTARS, CIP and is responsible for coordination and observation of some national programmes. MITA is taking an active role in clusterisation process. Acting as a facilitator / coach it represents the state’s interests. The main task is to identify new potential clusters, to coordinate their activities, to assist young clusters, to present their products and services internationally. “Wellness and wellbeing industry” is the closest to “health” and some potential to be supported by MITA to become a cluster.</p>	
Contact	<p>A. Goštauto str. 12-219, LT-01108 Vilnius, Lithuania. Phone: +370 5 2644708 E-Mail: info@mita.lt</p>



Source	http://www.euraxess.lt/lithuania/information-assistance/funding-opportunities https://mita.lrv.lt/en/
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Luxembourg

Table 43 - Luxembourg National Research Funding (FNR)

Funding agency	Luxembourg National Research Funding (FNR)
Description of the agency	
<p>The FNR is the main funder of research activities in Luxembourg. It is overseen by the Ministry of Education and Research. The FNR has several research programmes and schemes in order to support and promote the research system in Luxembourg. The main objective is to improve the system's competitiveness and visibility at an international level. CORE is the central programme of the FNR funding the following priority research domains:</p> <ul style="list-style-type: none"> • Innovation in Services • Sustainable Resource Management in Luxembourg • New Functional and Intelligent Materials and Surfaces and New Sensing Applications • Biomedical and Health Sciences • Societal Challenges <p>No specific programmes focussing on collaboration with China. However, there are funding opportunities for international cooperation e.g. INTER Mobility / PEARL or funding for international researchers to become established in Luxembourg e.g. ATTRACT. These programmes have no specific focus on health.</p>	
Contact	2, avenue de l'Université L-4365 Esch-sur-Alzette Phone: +352 26 19 251 E-mail: info@fnr.lu
Source	https://www.fnr.lu/

Table 44 - Luxinnovation

Funding agency	Luxinnovation
Description of the agency	
<p>Luxinnovation is the National Agency for Innovation and Research. It offers a great range of services to companies, researchers and foreign investors to launch their innovation activities and to set up cooperation projects in Luxembourg. The main aim of Luxinnovation is to support the Government's economic development objectives. One of these objectives is to strengthen Luxembourg as a place for health science research.</p> <p>In the field of health research, four aspects of personalised medicine have been identified as core areas of interest:</p> <ul style="list-style-type: none"> • Digital health • Neurodegenerative diseases 	



	<ul style="list-style-type: none"> • Molecular diagnostics • Immune-oncology
Contact	Françoise Liners, PhD Chargée de la direction des technologies de la santé Ministère de l'Économie Phone: +352 247 74 138 E-mail: françoise.liners@eco.etat.lu
Source	http://www.luxinnovation.lu/

Malta

Table 45 - Malta Council for Science and Technology (MCST)

Funding agency	Malta Council for Science and Technology (MCST)
Description of the agency	
Acting for and on behalf of the Foundation for Science and Technology, the MCST is a public body established by the central government in 1988 with the mandate of advising government on science and technology policy. Health related programmes they are involved: <ul style="list-style-type: none"> • Health programme under H2020 • Survey on Unmet needs in the Healthcare Sector • How to implement nanotechnologies, advanced materials, advanced manufacturing and processing, and Biotechnology • Identification of genetic factors contributing to coeliac disease in the Maltese population 	
Contact	E-Mail: info.mcst@gov.mt Phone: +356 2360 2200
Source	http://mcst.gov.mt/

The Netherlands

Table 46 - Netherlands Organization for Scientific Research (NWO)

Funding agency	Netherlands Organization for Scientific Research (NWO)
Description of the agency	
NWO's mission is to advance world-class scientific research that has scientific and societal impact. NWO approaches that from its vision of being a connector and is guided by its core values: groundbreaking, committed, reliable, and connecting. NWO facilitates excellent, curiosity-driven disciplinary, interdisciplinary and multidisciplinary research. In this role, NWO focuses on all scientific disciplines and on the entire knowledge chain with an emphasis on fundamental research. Funded projects and interesting partnerships regarding health:	

	<ul style="list-style-type: none"> • Brain and Cognition: an Integrated Approach (BCIA); • Food, cognition and behaviour; • JSTP, Medical Devices for an ageing society; • Joint Scientific Thematic Research Programme (JSTP); • The Cooperation Taiwan programme (MoST).
Contact	<p>H. Dekker Phone: +31 70 349 40 E-mail: 11bezoekersbeurzen@nwo.nl</p>
Source	<p>https://www.nwo.nl/en/funding/our-funding-instruments/nwo/cooperation-china-nsfc/cooperation-china-nsfc---travel-and-subsistence-costs-seminars/cooperation-china-nsfc---joint-seminars/cooperation-china-nsfc---joint-seminars.html</p>

Table 47 - The Netherlands Organisation for Health Research and Development (ZonMw)

Funding agency	The Netherlands Organisation for Health Research and Development (ZonMw)
Description of the agency	
<p>ZonMw stands for innovation: to enable others to develop new (scientific) knowledge, by doing everything they can to ensure that this new knowledge is used in policy and health care practice. ZonMw is a co-creating party in the European research programming. This collaboration serves an international goal, but also a Dutch one: by participating in these programmes, ZonMw can create better opportunities for Dutch research groups to deploy their talents internationally. The three main European research instruments for member state driven funding collaborations are:</p> <ul style="list-style-type: none"> • Joint Programming Initiatives (JPIs), • ERA-NETs, • Research Infrastructures <p>Best practices:</p> <ul style="list-style-type: none"> • Code for the prevention of improper influence due to conflicts of interest • Code for Transparency in Animal Testing • Code of Conduct for Biosecurity • Code of Conduct for responsible use (2011) • Netherlands Code of Conduct for Academic Practice • The European Code of Conduct for Research Integrity • CCMO guidelines 	
Contact	E-Mail: info@zonmw.nl
Source	https://www.zonmw.nl/en/



Table 48 - The Lung Foundation Netherlands

Funding agency	The Lung Foundation Netherlands
Description of the agency	
<p>Scientific research has made The Lung Foundation Netherlands determined to prevent asthma in children and to treat severe asthma more effectively. It aims to improve medical care for people with an incurable lung disease and try to improve their quality of life.</p> <p>Scientific research is the basis for the Lung Foundation. With the research, it gives lung patients a vision of improvement. That is why the Lung fund annually puts millions of euros into scientific research. The Lung fund sets high demands for research, including the involvement of patients, cooperation between research institutes.</p>	
Contact	E-Mail: research@longfonds.nl
Source	https://www.longfonds.nl/

Poland

Table 49 - National Science Centre (NCN)

Funding agency	National Science Centre (NCN)
Description of the agency	
<p>NCN is a government agency, supervised by the Ministry of Science and Higher Education, set up in 2011 to support basic research in Poland.</p> <p>With a budget of over 313 M€ a year, NCN funds projects in Arts, Humanities and Social Sciences, Life Sciences and Physical Sciences and Engineering. The NCN has set up 11 types of funding schemes dedicated to researchers at different stages of their career. HARMONIA is the funding scheme designed to support international collaborations. In 2018, there was a call for joint Polish-Chinese research teams to be launched by the NCN and the NSFC. The programme aims to support research projects in all fields of the Natural, Engineering, Life and Management sciences.</p>	
Contact	Phone: +48 12 341 9000 E-mail: informacja@ncn.gov.pl ;
Source	https://ncn.gov.pl/?language=en https://ncn.gov.pl/finansowanie-nauki/konkursy/typy/4?language=en

Table 50 - Foundation for Polish Science (FNP)

Funding agency	Foundation for Polish Science (FNP)
Description of the agency	
<p>The Foundation for Polish Science (FNP), formed in 1991, is an independent, self-financing, non-profit, non-governmental organisation, with a mission of supporting science in Poland. It is the largest source of science funding in Poland outside the state budget.</p> <p>The FNP funds several projects, including health focused ones. Some examples can be found below:</p> <ul style="list-style-type: none"> • 3P-Medicine (Preventive, Personalized, Precision) • International Center for Translational Eye Research (ICTER) • International Centre for Cancer Vaccine Science <p>They have established a Partnership with the China Global Philanthropy Institute (http://en.cgpi.org.cn/).</p>	
Contact	Phone: +48 22 845 95 00 E-mail: fnp@fnp.org.pl
Source	https://www.fnp.org.pl/en/

Table 51 - Polpharma Scientific Foundation

Funding agencies	Polpharma Scientific Foundation
Description of the agency	
<p>Established in 2001 by a private company, Polpharma SA, which is currently the largest Polish manufacturer of generic drugs and pharmaceutical substances. In accordance with the founders' intention, the Foundation supports pharmaceutical and medical science development by financing and initiating scientific research and practical solutions, providing scholarships and awards and promoting knowledge among representatives of scientific, social and business environments. From the beginning, Polpharma Scientific Foundation has been organising an annual competition for the Polish research society with an aim of financing original ideas which contribute to the development of medicine and pharmacy.</p>	
Contact	<p>Pelplińska 19 83-200 Starogard Gdański Phone: +48 58 563 16 00 Fax: +48 58 562 23 53</p>
Source	https://www.polpharma.pl/en/

Portugal

Table 52 - Fundação para a Ciência e a Tecnologia (FCT)

Funding agency	Fundação para a Ciência e a Tecnologia (FCT)
Description of the agency	
<p>FCT is a public Portuguese agency that supports and funds research and development actions in technology and innovation in all fields of knowledge. Their main target is to make Portugal into one of the most well-known countries in the world on the topic of research. FCT works with a lot of public and private entities in Portugal and abroad.</p> <p>Interesting cooperation with the EU regarding Health sector:</p> <ul style="list-style-type: none"> • EIT Health: Innovative healthcare solutions of tomorrow • Current practices and experiences in the area of Current practices and experiences in the area of FOOD and HEALTH Research FOOD and HEALTH Research • Health, demographic change and well-being' Work Programme 2018-2020 <p>FCT signed a Sino-Portuguese partnership agreement: Sino-Portuguese Programme for Cooperation in Science & Technology.</p>	
Contact	Cristina Gouveia E-Mail: cristina.gouveia@fct.pt
Source	https://www.fct.pt

Romania

Table 53 - Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI)

Funding agency	Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI)
Description of the agency	
<p>UEFISCDI is a public entity of the Central Administration under the ultimate authority of Ministry of National Education.</p> <p>UEFISCDI implements, under the supervision of its advisory councils, five out of the six programmes of the National Plan for Research, Development and Innovation 2007-2013 (PN II), i.e.: Human Resources (exploratory research), Ideas (exploratory research), Partnerships in Priority S&T Areas (applied research), Innovation (innovation and technology transfer) and Capacities.</p> <p>UEFISCDI is partner in a great number of international projects, namely within the context of ERA-NET, in which they participate in two projects related with the Health sector:</p> <ul style="list-style-type: none"> • EuroNanoMed III • PerMed 	
Contact	Mr. Mircea Segarceanu segarceanu@uefiscdi.ro
Source	https://www.flagera.eu/ourfunders/unitatea-executiva-pentru-finantarea-invatamantului-superior-a-cercetarii-dezvoltarii-si-inovarii-uefiscdi-romania/

Table 54 - National Research Council (CNCS)

Funding agency	National Research Council (CNCS)
Description of the agency	
<p>CNCS is the agency that implements the national research plan. CNCS works within several European funding programmes for international cooperation in scientific and technological areas.</p> <ul style="list-style-type: none"> - It notably implements the following programs: European and international cooperation; - Fundamental and frontier research. 	
Contact	-
Source	http://www.cncs-nrc.ro/home/

Slovakia

Table 55 - Slovak Academic Information Agency

Funding agency	Slovak Academic Information Agency
Description of the agency	
<p>The National Scholarship Programme of the Slovak Republic supports study/research/teaching/artistic mobility of international students, PhD students, university teachers, researchers and artists at higher education institutions and research organisations. It supports two-way mobility - international scholarship holders to Slovakia, as well as Slovak scholarship holders abroad. The programme offers scholarships to cover living costs during the stay and travel allowances (all categories in case of scholarship holders from Slovakia; students and PhD students in case of international scholarship holders).</p>	
Contact	<p>Lukáš MARCIN, programme administrator E-mail: nsp-foreign@saia.sk</p>
Source	<p>https://www.scholarships.sk/en/ https://www.saia.sk/</p>

Table 56 - Slovak Research and Development Agency (SRDA)

Funding agency	Slovak Research and Development Agency (SRDA)
Description of the agency	
<p>The SRDA is the research and development grant agency in the Slovak Republic. It was established by the Act No.172/2005 in July 2005 and it is a successor of the previous agency functioning since 2001. SRDA is the instrument for distribution of public finances for research and development on the competitive basis in Slovakia. SRDA is responsible for research and development promotion in all research fields, including international research cooperation.</p> <p>Bilateral grants with china (closed):</p> <ul style="list-style-type: none"> • SLOVAKIA – CHINA RD 2018 (research bilateral call) 	

	<ul style="list-style-type: none"> General Call for submitting proposals for common research and development projects supporting the collaboration between organisations in the Slovak Republic and the People's Republic of China 2017 (bilateral call)
Possible contact	General email: agentura@apvv.sk
Source	https://www.apvv.sk/kontakt/kontaktne-udaje.html

Slovenia

Table 57 - Slovenian Research Agency (ARRS)

Funding agency	Slovenian Research Agency (ARRS)
Description of the agency	
<p>The ARRS as an independent public funding organisation perform tasks relating to the National Research and Development Programme and creation of European Research Area. The Agency aims to provide the scientific community with instruments enabling stable funding of scientific excellence. The continuing improvements of the instruments should enable fairer competition of scientists within all fields of science. The Agency follows the policies of open science, scientific integrity, gender diversity and operates in line with the national research and innovation strategy. There was the signing of an Agreement on Scientific and Technological Cooperation between the Government of the Republic of Slovenia and the Government of the People's Republic of China.</p>	
Contact	E-Mail: info@arrs.si
Source	http://www.arrs.si/en/povezave.asp

Spain

Table 58 - Ministry for Science, Innovation and Universities

Funding agency	Ministry for Science, Innovation and Universities
Description of the agency	
<p>Funding is managed through the State Research Agency (Agencia Estatal de Investigación). All research areas are funded. Health specific projects are funded through the Health Institute Carlos III (Instituto de Salud Carlos III).</p> <p>The Instituto de Salud Carlos III (Institute of Health Carlos III, ISCIII) is the main public research entity funding, managing and carrying out biomedical research in Spain. The Institute has been conducting research and providing key services in the life and health sciences for over 20 years. It is also the body responsible for managing Spain's Health Research and Development Strategy within the framework of the National R+D+I Plan, being part of several international research projects.</p>	
Contact	<p>Information Office</p> <p>Phone: +34 91 822 21 00 and +34 91 822 24 60</p> <p>Fax: +34 91 387 77 89</p>

	E-Mail: oficina.informacion@isciii.es
Source	http://www.ciencia.gob.es/portal/site/MICINN/ http://www.eng.isciii.es/ISCIII/es/general/index.shtml

Table 59 - Centre for the Development of Industrial Technology (CDTI)

Funding agency	Centre for the Development of Industrial Technology (CDTI)
Description of the agency	
<p>The Centre for the Development of Industrial Technology (CDTI) is a Public Business Entity, answering to the Ministry of Economy, Industry and Competitiveness, which fosters the technological development and innovation of Spanish companies. It is the entity that channels the funding and support applications for national and international R&D&i projects of Spanish companies. The CDTI thus seeks to contribute to improving the technological level of the Spanish companies by means of implementing the following activities:</p> <ul style="list-style-type: none"> • Financial and economic-technical assessment of R&D projects implemented by companies. • Managing and fostering Spanish participation in international technological cooperation programmes. • Fostering international business technology transfer and support services for technological innovation. • Supporting the setting up and consolidating technological companies. <p>The CDTI has different instruments to fund R&D&i projects and to create and consolidate technology start-ups. Apart from the funding, the CDTI is entrusted with issuing the Reasoned Report to claim for a tax rebate on R&D&i activities.</p>	
Contact	Carlos QUINTANA carlos.quintana@cdti.es
Source	https://www.cdti.es/

Sweden

Table 60 - Swedish Agency for Innovation Systems (VINNOVA)

Funding agency	Swedish Agency for Innovation Systems (VINNOVA)
Description of the agency	
<p>VINNOVA intends to contribute to sustainable growth by improving the conditions for innovation, mainly by funding innovation projects and the research needed to develop new solutions. It also invests long term in strong research and innovation environments and stimulates collaborations between companies, universities and other higher education institutions, public services, civil society and other actors. VINNOVA also focuses on strengthening international cooperation.</p> <p>Subject areas supported include:</p> <ul style="list-style-type: none"> • Clinical Therapy Research 	

	<ul style="list-style-type: none"> • Medicine and Health • Research infrastructure <p>For how to apply for funding, see the following link: https://www.vinnova.se/en/apply-for-funding</p>
Contact	<p>Phone: +46 8 473 30 00</p> <p>E-Mail: vinnova@vinnova.se</p> <p>Monday to Friday 8am-4.30pm</p>
Source	https://www.vinnova.se/en

Table 61 - Swedish Research Council

Funding agency	Swedish Research Council
Description of the agency	
<p>To support research of the highest quality within all scientific fields is the goal of the Swedish Research Council.</p> <p>This is the largest single public funding agency for basic research at Swedish universities, colleges and institutions. The Council funds research within research infrastructures, medicine and health, clinical therapy research, humanities and social sciences, natural and engineering sciences, development research, educational sciences and artistic research.</p>	
Contact	<p>Phone: +46 8-546 44 000</p> <p>E-Mail: vetenskapsradet@vr.se</p>
Source	<p>https://www.vr.se/english.html</p> <p>https://www.vr.se/english/en_-sidfot/contact/contact-us.html</p>

Table 62 - Swedish Research Council for Health, Working Life and Welfare (FORTE)

Funding agency	Swedish Research Council for Health, Working Life and Welfare (FORTE)
Description of the agency	
<p>FORTE funds research within three main fields: health, working life and welfare. FORTE is a research council and a government agency under the Swedish Ministry of Health and Social Affairs that distributes funds to both basic and needs-driven research.</p> <p>FORTE offers different grant types including:</p> <ul style="list-style-type: none"> • Project grants • Junior researcher grants • Postdoc grants 	
Contact	<p>Phone: +46 8-775 40 70</p> <p>E-Mail: forte@forte.se</p>
Source	https://forte.se/en

Table 63 - Swedish Foundation for Strategic Research (SSF)

Funding agency	Swedish Foundation for Strategic Research (SSF)
Description of the agency	
The SSF supports research in science, engineering and medicine for the purpose of strengthening Sweden's future competitiveness. Funds are given to a large number of research projects at universities and technical institutes, many in collaboration with industry and also awards grants to leading researchers, with an emphasis on young coming stars. SSF priority areas during the period up to 2021 include life sciences with a focus on technologies and bioengineering.	
Contact	Phone: +46 8 505 816 00 E-Mail: info@strategiska.se
Source	https://strategiska.se/en/ https://strategiska.se/en/contact/

Table 64 - Swedish Foundation for International Cooperation in Research and Higher Education (STINT)

Funding agency	Swedish Foundation for International Cooperation in Research and Higher Education (STINT)
Description of the agency	
STINT promotes knowledge and competence development within internationalisation and invests in internationalisation projects proposed by researchers, educators and leaderships at Swedish universities. STINT promotes internationalisation as an instrument to enhance the quality of the research produced, increase the competitiveness and strengthen the attractiveness of the Swedish universities.	
Contact	Phone: +46 8 671 19 90 E-Mail: info@stint.se
Source	https://www.stint.se/en/ https://www.stint.se/en/about-us/#Contact

United Kingdom

Table 65 - UK Research and Innovation

Funding agency	UK Research and Innovation
Description of the agency	
This agency works in partnership with universities, research organisations, businesses, charities, and government in order to promote the best environment for research and innovation. They operate all over the United Kingdom and their research covers all fields of knowledge. UK Research and Innovation has an office in the British Embassy in Beijing that facilitates the development of UK-China joint research and innovation programmes. It provides on-the-ground insight and experience working in China's rapidly-changing research and innovation landscape, and	

boosts the visibility of UK excellence in science and innovation in a highly competitive market through coordinated outreach and stakeholder engagement.	
Contact	E-Mail: communications@ukri.org
Source	https://www.ukri.org/

Table 66 - Biotechnology and Biological Science Research Council (BBSRC)

Funding agency	Biotechnology and Biological Science Research Council (BBSRC)
Description of the agency	
BBSRC is part of UK Research and Innovation, a new body which works in partnership with universities, research organisations, businesses, charities, and government to create the best possible environment for research and innovation to flourish. It aims to maximise the contribution of each of our component parts, working individually and collectively.	
Contact	E-Mail: eligibility@bbsrc.ukri.org
Source	https://bbsrc.ukri.org/

Table 67 - Wellcome Trust

Funding agency	Wellcome Trust
Description of the agency	
<p>The Wellcome Trust is a politically and financially independent foundation, aiming to support researchers, to take on big health challenges, to campaign for better science, and to help everyone get involved with science and health research. The Wellcome Trust provides funding schemes and offers grants across biomedical science, population health, medical innovation, humanities and social science, and public engagement. It supports thousands of scientists and researchers in more than 70 countries, as well as innovators, educators and artists, and fund hundreds of innovations in these areas:</p> <ul style="list-style-type: none"> • Drugs or other medicines. • Devices. • Diagnostic tests. • Interventions that can change patients’ behaviours. 	
Contact	Alyson Fox E-Mail: a.fox@wellcome.ac.uk
Source	https://wellcome.ac.uk/

2.2 Chinese funding agencies

Following the mapping provided on the EU and EU MS agencies, this section describes a set of funding agencies in China, both at the national and provincial levels. Similar to the exercise developed for the EU and EU MS mapping, each table includes information on a specific agency, detailing its main objectives, possible contacts and a website link. In order to develop the mapping for the Chinese national and provincial funding agencies, the following selection criteria were applied:

- Funding agencies that are part of / managed by governmental organisations.
- Funding that is applied to STI actions and projects – taking into account the five major funding pillars of national STI funding established by the Chinese government.
- Focusing on health-related topics – either as part of a more general agency or programme, or specifically focused on health.
- Promoting international cooperation.
- Having joint cooperation agreements with EU agencies.

Within this context, a set of funding agencies were identified at the Chinese national and provincial levels. At the Chinese national level, it is relevant to highlight two of the main agencies that are part of the national STI system - NSFC and the MoST. Although these agencies include several research fields, there is a strong focus on health-related areas, including programmes and schemes that are managed under these two institutions. In addition, these agencies have established cooperation agreements with the EU and the EC, supporting the development of partnerships and new joint projects.

Regarding the Chinese provincial level, the mapping includes a set of governmental agencies that are part of first-tier cities in China (Beijing, Shanghai, Guangdong, Zhejiang and Jiangsu), which are responsible for managing some of the most innovative projects at the local level.

Table 68 - Natural Science Foundation of China

Funding agency	Natural Science Foundation of China (NSFC)
Description of the agency	
The NSFC was established on February 14, 1986. It is an institution directly under the jurisdiction of the State Council, tasked with the administration of the National Natural Science Fund from the Central Government. ¹ It is China's largest fund for supporting basic research and applied research in natural sciences, particularly in the fields of physics and mathematics; chemistry; life sciences; earth sciences; engineering and materials; information sciences; and management sciences. In NSFC, the department of life science funds a broad-spectrum including biology, agricultural sciences and basic medicine, which extends to various fields of resources, environment, ecology, population and health. Moreover, the department of health science supports basic research on issues concerned with disease prevention, disease control and disease treatment in China.	
Contact	Xu Jin E-Mail: xujin@nsfc.gov.cn
Source	http://www.nsfc.gov.cn/

¹ <http://www.nsfc.gov.cn/nsfc/cen/xmzn/2019xmzn/01/08yx/index.html>

Table 69 - Ministry of Science and Technology (MoST)

Funding agency	Ministry of Science and Technology (MoST)
Description of the agency	
<p>MoST is a ministry of the Chinese government which coordinates science and technology activities in the country. MoST is the major funding agency of the central government that supports several national level science and technology programmes. MoST plans for major national S&T projects and oversee their implementation, coordinates the R&D and innovation of key generic technologies and cutting-edge technologies. The health-related programmes are related with other funding opportunities under National S&T Major Projects - Key New Drug Innovation and Prevention and treatment of major infectious diseases, governed by MoST.</p>	
Contact	E-Mail: zxb@most.cn
Source	http://most.gov.cn/

Table 70 - China Academy of Science of Medical Sciences (CAMS)

Funding Agency	China Academy of Science of Medical Sciences (CAMS)
Description of the agency	
<p>Founded in 1956, Chinese Academy of Medical Sciences (CAMS) is the only state-level academic center for medical sciences in China and multidiscipline medical research institution.</p> <p>Founded in 1917, Peking Union Medical College (PUMC) is the first key medical school to offer eight-year curriculum on clinical medicine and undergraduate courses on nursing in China. CAMS and PUMC have been leaders in modern medicine in China for over a century.</p>	
Contact	E-Mail: Contact@cams.cn
Source	http://english.cams.cn/about.html

Table 71 - Beijing Municipal Natural Science Fund Committee

Funding agency	Beijing Municipal Natural Science Fund Committee
Description of the agency	
<p>A “Key Research Special Programme” was also established in 2014 to support key projects in line with strategic and emerging industries, or with hot topics affecting people’s livelihood. Supported areas and fields differ every year, but generally include: robotics; medical and healthcare; ecology and environmental protection/rehabilitation; mathematics and physics; etc. The supported areas in the programme in 2019 are specially focused on mathematics, physics, and life sciences, and will fund 26 projects, in which 10 projects are life sciences. The research fields of life science include</p> <ul style="list-style-type: none"> • Research on basic theory and key technologies related to bio-living macroscopic images; 	

	<ul style="list-style-type: none"> • Research on the theory and method of the application of new technologies such as single molecule and single cell to the diagnosis and treatment of major diseases and precise molecular diagnosis; • Basic research on the application of artificial intelligence in medical diagnosis and treatment and detection; <p>Basic research on the application of new technologies such as gene editing and stem cells in the field of medicine.</p>
Contact	Fang Xing E-Mail: bjnsf02@kw.beijing.gov.cn
Source	http://chinainnovationfunding.eu/project/beijing-municipal-natural-science-fund-key-research-special-programme-2019-annual-call/

Table 72 - Shanghai Science and Technology Committee (STCSM)

Funding agency	Shanghai Science and Technology Committee (STCSM)
Description of the agency	
<p>Shanghai Science and Technology Committee (STCSM) is responsible for scientific and technological development of the city as well as supporting the cooperation of domestic and international institutions regarding science and technology. Its main responsibilities include: International cooperation and exchange, S&T achievement transformation and high-tech industrialisation, S&T development planning, Science popularisation, S&T legislation and policy, Coordination between system and entities, Resource optimisation and system reform, Improving S&T service system, Making and running Programs on S&T. In 2019, STCSM issued the 2019 "Science and Technology Innovation Action Plan" Project in the field of clinical medicine. The research topics include:</p> <ul style="list-style-type: none"> • Clinical diagnosis and treatment of diseases. • Clinical application of new techniques and methods • Clinical study on comprehensive control of cardiovascular and cerebrovascular diseases by traditional Chinese medicine. 	
Contact	E-Mail: jiandu@stcsm.gov.cn
Source	http://stcsm.sh.gov.cn/english/

Table 73 - Shanghai Science & Technology Development Foundation (SSTDF)

Funding agency	Shanghai Science & Technology Development Foundation (SSTDF)
Description of the agency	
<p>Shanghai Science & Technology Development Foundation, a non-profit administrative organisation for S&T developing funds, was initiated by the Shanghai Association for Science & Technology, approved by Shanghai People's Government and the People's Bank of China Shanghai Branch.</p> <p>The missions of SSTDF are to promote the prosperity and development of science and technology, to advance the science communication and to facilitate the cultivation and growth of the scientific</p>	

talents, thus contributing to the technical progress and improvement of scientific and cultural literacy of Shanghai citizens.	
Contact	E-Mail: kjh59@163.com
Source	https://www.ss-tdf.org/

Table 74 - Zhejiang Provincial Department of Science and Technology

Funding agency	Zhejiang Provincial Department of Science and Technology
Description of the agency	
<p>Zhejiang Provincial Department of Science and Technology aims to formulate policies for reform and technical innovation of science and technology system in Zhejiang; to be responsible for the guiding, coordination and supervision of the reconstruction in scientific and technological institutes of Zhejiang Province; to provide guidelines for the management in intermediary sci-tech organisations, nongovernmental sci-tech agents and societies.</p> <p>In 2019, Zhejiang-Finnish Call for proposals for Joint R&D Projects aims to facilitate larger scale R&D&I cooperation, preferably but not exclusively in the following areas: Bio-economy and clean technology; Digitalisation; Life science and Health.</p>	
Contact	E-Mail: tingzhang@zjinfo.gov.cn
Source	http://www.zjkjt.gov.cn/index.html

Table 75 - Guangdong Provincial Department of Science and Technology

Funding agency	Guangdong Provincial Department of Science and Technology
Description of the agency	
<p>Guangdong Provincial Department of Science and Technology aims to carry out the national and provincial guidelines, policies as well as laws and regulations of science and technology; to draft regional rules, provisions and regulations, policies and measures and to organise their implementation and supervision. take charge of the budgeting and final accounting of sci-tech funds in the departmental budget and the supervision of the use of the funds; to join with other related departments in offering suggestions about important policies and measures for sci-tech investment and the optimisation of sci-tech resource allocation. In 2019, the department has announced Administrative measures of the Drug Administration on provincial clinical medical research centres. The centre aims to upscale the level of clinical medicine research and diagnosis and treatment, to carry out clinical research, collaborative innovation, academic exchanges, personnel training, results transformation and application of an important platform.</p>	
Contact	Phone: +86 20 8316 3632
Source	http://rc.gdstc.gov.cn/egrantweb/



Table 76 - Jiangsu Provincial Department of Science and Technology

Funding agency	Jiangsu Provincial Department of Science and Technology
Description of the agency	
Jiangsu Provincial Department of Science and Technology promotes the construction of science and technology innovation system and scientific and technological reform in the province, guides the reform and development of scientific research institutions with relevant departments to improve the incentive mechanism for scientific and technological innovation, and promotes major scientific and technological decision-making. In 2019, International Centre for Genetic Engineering Biotechnology (ICGEB) and China Medical City (CMC), China's leading medical industrialisation base in Taizhou, Jiangsu Province, has built partnership to set up the world first ICGEB regional research centre (ICGEB-RRC) at CMC.	
Contact	E-Mail: jstd@jstd.gov.cn
Source	http://kxist.jiangsu.gov.cn/

2.3 Summary

Across the EU Member States, it is possible to verify that the majority of the funding agencies are government bodies, research institutes and foundations. These organisations are mainly public entities, which provide funding opportunities to different stakeholders in various programmes, through a wide range of sectors, including health. However, in some countries there are Ministries of Health and specific Health Councils which provide funding for health-oriented actions only. Countries such as Italy and Ireland have adequate agencies, as mentioned above, are just some examples of countries who have such organisations. It is also worth mentioning that DAAD from Germany is one of the world's largest funding agencies on EU higher education. This is considered to be relevant due to the mobility and exchange programmes that are available, across different areas such as health. Concerning the funding supported from the EU, over 76% of the budget is managed in partnership with national and regional authorities through a system of "shared management".

On the Chinese side, a similar structure can be verified, with national funding agencies acting across the country. However, China also has provincial and local agencies which provide specific funding for concrete needs of the region. Nevertheless, looking at the national agencies in China, they are also classified as public bodies managed by the government. Many of them are linked and connected with universities, such as the Chinese Academy of Sciences, but also research institutes. Similarly, as in Europe, the funding agencies have budget available to support actions across the scientific, technologic and innovative spectrum, which naturally includes the fast-growing health sector.

At the provincial level, there are several regional agencies providing science and technology research funds to the researchers. Among them, the major funding agencies include Beijing Municipal Natural Science Fund Committee, Shanghai Science and Technology Committee (STCSM), Shanghai Science & Technology Development Foundation (SSTDF) and Zhejiang Provincial Department of Science and Technology, Guangdong Provincial Department of Science and Technology and Jiangsu Provincial Department of Science and Technology. These agencies have special programmes dedicated to international cooperation on R&D investment.

3. Health-related funding schemes and programmes

This section identifies the main health related research funding schemes and programmes supported by funding agencies from both the EU and EU MS, and China. The mapping developed on these schemes and programmes allows to analyse each agency's key objectives, research fields, what actions are funded, target group, and the eligibility criteria for applying to the programmes – detailed under section 3.1 and section 3.2. Moreover, and taking into account the schemes and programmes selected, report identifies the main actors involved in each programme – detailed under section 3.3. Lastly, this section lists and describes a set of best practices from EU-China collaborative projects, detailing the main stakeholders, policy actions developed, objectives, cooperative research fields and main outcomes of each project – detailed under section 3.4.

3.1 Health funding schemes and programmes between the EU / EU MS and China

As previously described, this section provides a mapping of a set of health-related funding schemes and programmes between the EU / EU MS and China. Within this context, the funding schemes and programmes were selected based on the following criteria:

- Schemes and programmes promoted by EU and EU MS funding agencies.
- Schemes and programmes that are part of framework agreements between Chinese and EU / EU MS agencies.
- Joint EU-China schemes and programmes focusing on health research.
- Schemes and programmes that provide funding for international cooperation – focusing specifically on EU-China joint actions.

In this section, the funding schemes and programmes identified are mostly promoted by governmental agencies, providing numerous research opportunities, namely on health-related topics. The majority of the funding agencies support international research cooperation. Moreover, this section includes health funding schemes and programmes at the national level (EU MS), taking into account that these initiatives are designed to promote international participation – this includes Chinese participation in certain types of programmes. Apart from national funding programmes, other joint programmes at the EU level are launched under the bilateral cooperation between NSFC and European funding agencies. The main objective of this international cooperation programme is to provide support for researchers involved in NSFC-funded projects. The partnership between NSFC and European partners is thus highlighted in this section².

² http://www.nsf.gov.cn/english/site_1/international/D1/2017/12-18/17.html

Funding schemes and programmes at EU level

Table 77 - EU Health Programme

Outline	The Health Programme is a funding instrument to support cooperation among EU countries and underpin and develop EU health activities. The legal basis for the Health Programme is agreed with the European Parliament and the Council for a period of several years.
Research Fields	Health
Funding Agency	European Structural and Investment Funds (ESIF) / European Regional Development Fund / European Social Fund
Eligibility	All EU countries plus Norway, Serbia, Moldova and Bosnia & Herzegovina. Organisations from other countries are also encouraged to get involved, however funding cannot be awarded to them. Participation is open to a wide range of organisations, including: <ul style="list-style-type: none"> • Public authorities, • Public sector bodies, in particular research and health institutions, • Universities and higher education establishments, • NGOs.
What Is Funded	There are two main funding mechanisms: grants and tenders. Grants for projects, operating grants, direct grants with international organisations and grants to EU authorities and bodies for co-financed actions (called joint actions).
Duration	2014-2020
Deadline	It is possible to apply at the beginning of every year.
Webpage	https://ec.europa.eu/health/funding/programme_en

Table 78 - The European Health Catapult

Outline	Along with being EIT Health's premiere pitch competition, European Health Catapult is also a training programme that boosts the development of top-notch European health start-ups. The programme exposes Biotech, MedTech and Digital Health start-ups to leading experts and international investors through intensive, multi-channel involvement of the whole EIT Health community. It culminates in a high-profile pitch contest at the EIT Health Summit.
Research Fields	MedTech, BioTech or Digital Health
Funding Agency	The European Health Catapult
Eligibility	The European Health Catapult is open to micro and small enterprises (<50 employees), spin-offs and start-ups that are already incorporated and are looking for seed or series A funding of a minimum 500.000 EUR. Participants must be: <ul style="list-style-type: none"> • active in the fields of MedTech, BioTech or Digital Health • operating in an EU Country • offering innovative business concepts • connected to the EIT Health community
What Is Funded	The top three finalists in these categories will receive an award based on their placing. The maximum amount of all prizes awarded will be €200.000.



Duration	4 December 2019
Deadline	8 April 2019
Webpage	https://www.eithealth.eu/business-plan-competition

Table 79 - European Commission - 3rd Health Programme Stakeholder actions to implement the EU guidelines on prudent use of antimicrobials in human health

Outline	Stakeholder actions to implement the EU guidelines on prudent use of antimicrobials in human health (Heading 2.2 of the AWP 2019)
Research Fields	Health
Funding Agency	European Commission
What Is Funded	2.000.000 EUR
Duration	n/a
Deadline	10 September 2019 17:00:00 Brussels time
Webpage	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/pj-02-2019;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=3HP;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState

Table 80 - European Commission - 3rd Health Programme Rare disease registries for the European Reference Networks

Outline	Rare disease registries for the European Reference Network (Heading 2.1 of the AWP 2019)
Research Fields	Health
Funding Agency	European Commission
What Is Funded	3.800.000 EUR
Duration	n/a
Deadline	10 September 2019 17:00:00 Brussels time
Webpage	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/pj-01-2019;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=3HP;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState



Funding schemes and programmes at EU MS level

Austria

Table 81 - Austria - Special Research Programmes

Outline	Special Research Programmes (SFBs) aims to establish research networks based on international standards through autonomous research concentration at a single university location and building up of extremely productive, tightly interconnected research establishments for long-term and interdisciplinary work on complex research topics (human medicine and health sciences included).
Research Fields	All scientific research, including clinical medicine, health sciences and medical biotechnology
Funding Agency	The Austrian Science Fund (FWF)
Eligibility	Scientists / Scholars of any discipline who are working in - Austrian universities; - profit-making, extra-university research establishments. Additionally, the scientist needs to prove: - already available research potential;
What Is Funded	Benchmark 1.000.000 EUR per year
Duration	8 years, an interim review after 4 years decides on continuation
Deadline	30 September 2019
Webpage	https://www.fwf.ac.at/en/research-funding/fwf-programmes/special-research-programmes-sfb/#c16954

Belgium

Table 82 - Belgium – Calls for Collaborative Projects

Outline	On June 30 th 2015 the official signing of the new cooperation agreement between the FWO and the Natural Science Foundation of China (NSFC) took place in Brussels. After two successful calls a third call for collaborative projects is launched in order to further promote scientific cooperation between Flanders and China. For the 2019 call the cooperation is limited to all fields of natural sciences and medical sciences.
Research Fields	Mathematical & physical sciences, Chemical sciences, Life sciences, Earth sciences, Engineering & material sciences, Information sciences, Management sciences, Health sciences
Funding Agency	Natural Science Foundation of China (NSFC) and The Research Foundation - Flanders (FWO)
Eligibility	As the applicant, you must hold a PhD and hold throughout the entire period of your project, an appointment of at least 50% at: <ul style="list-style-type: none"> • a university in the Flemish Community (including the academic programmes within the corresponding association), or to • a federal or Flemish scientific institute as scientific staff of the Dutch-speaking community, or to • a university hospital in the Flemish Community as scientific staff, or to • a hospital with an academic character recognised as research centre in the

	<p>Flemish Community as scientific staff.</p> <p>Please note: All the members of the Chinese research team (including the Chinese PI) have to be already involved in an ongoing NSFC project and there should be an overlap of at least one year. In addition, all the members of the Chinese research team should be affiliated to the same university or institute.</p>
What Is Funded	<p>NSFC provides per project a fixed total amount of 100.000 RMB for the total duration of two years. This funding should be used for the international travel costs of the Chinese researcher(s) and the accommodation and living expenses of the Flemish researcher(s).</p> <p>FWO pays researcher(s) from China a daily living allowance of 50 EUR per day (or max. 1.300 EUR per month) and reimburses in addition the accommodation costs. The international travel costs of the Flemish researcher(s) are also paid by FWO.</p>
Duration	2 years
Deadline	29 th of May 2019 (5pm Belgian time)
Webpage	https://www.fwo.be/en/fellowships-funding/international-collaboration/scientific-cooperation/cooperation-with-china/

Bulgaria

Table 83 - Bulgaria – Call on Biodiversity

Outline	<p>BiodivERsA announces the launch of its 2018-2019 Call on the theme Biodiversity and its Influence on Animal, Human and Plant Health”. BiodivERsA is a network of national and regional funding organisations promoting pan-European research on biodiversity and ecosystem services. BiodivERsA is funded under the H2020 ERA-NET COFUND scheme.</p>
Research Fields	Biodiversity-health relations in European overseas (for areas eligible to this call).
Funding Agency	15 funding organisations from 11 EU countries (Bulgaria - National Science Fund included)
Eligibility	<p>Scientific teams are invited to form transnational research consortia comprising:</p> <ul style="list-style-type: none"> FOR ACTION A: research partners from minimum 3 countries participating in Action A; FOR ACTION B: researchers from minimum 5 countries participating in Action B.
What Is Funded	<p>This call will include two actions, supporting two different types of research projects:</p> <ul style="list-style-type: none"> Action A will support collaborative research projects, gathering different research teams generating new knowledge in particular based on the production of new primary data; Action B will support research synthesis projects, gathering individuals forming a working group which perform research and answer research questions using existing data sets.
Duration	N/A
Deadline	8 February 2019
Webpage	http://www.biodiversa.org/



Croatia

Table 84 - Croatia – Research Projects Programme

Outline	<p>The “Research Projects” programme finances basic research that creates new, improves existing knowledge about particular area, and aims at a better understanding of research subjects as well as applied research conducted with clear technological, economic or social goals (health research is one of the goals).</p> <p>The proposed subject must be internationally recognisable and/or nationally relevant, and the applicant of the project must have excellent achievements. The projects that will be supported by this call should be based on strong research teams, whose principal investigators are internationally and nationally recognised scientists, and includes connecting of scientific organisations, researchers and equipment, the development of scientific capacities and planning the development of young researchers. Consolidation of research is encouraged to raise the quality of research and the creation of internationally competitive and recognisable research groups.</p>
Research Fields	All scientific fields
Funding Agency	Croatian Science Foundation
Eligibility	A prominent scientist with internationally recognised achievements in science and/or technology in the area in which the project is submitted
What Is Funded	In 2019, the overall budget for the calls “Installation Research Projects” and “Research Projects” is HRK 60.000.000 (8.065.360 EUR), of which about HRK 40.000.000 (5.376.910 EUR) is reserved for Research Projects.
Duration	4 years
Deadline	24 th May 2019 until 13:00 (CET)
Webpage	http://www.hrzz.hr/UserDocsImages/natjecaji/Istrazivacki%202019/IP-2019-04_Call%20for%20Proposals.pdf

Cyprus

Table 85 - Cyprus - International Collaboration-Dual Targeting Programme

Outline	<p>The “International Collaboration-Dual Targeting” Programme aims to the networking of Cypriot organisations with research organisations of excellence from countries that are advanced or are emerging in the field of research, and to the joint implementation of research to the benefit of the quality of life and competitiveness of the economy. In particular, the Calls for Proposals are about collaboration with organisations from third countries, with which Cyprus does not have a Collaboration Agreement.</p> <p>The “International Collaboration- Dual Targeting” Programme is part of Pillar I “Smart Growth” of the Smart Specialisation Strategy, and it concerns the materialisation of the main objective which is to enhance the mechanisms that address contemporary developmental challenges and perspectives in the selected Priority Sectors (health sector included) through widening the opportunities for international collaborations and extroversion.</p>
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Research Fields	Energy, Tourism, Agriculture Food Industry, Built Environment and Construction Industry, Transport-Shipping, and Health. In particular of health, the research fields focus on (i) E-Health, (ii) Clinical and Genetic Investigation and Treatment of Diseases, (iii) Development of Safe and Effective Pharmaceuticals and, (iv) Medical Tourism.
Funding Agency	Cyprus Research Promotion Foundation (RPF)
Eligibility	The calls for proposals are about collaboration with organisations from third countries and target-countries <ul style="list-style-type: none"> • The third countries (e.g. USA, Canada, Brazil, Russia, India, China and South Africa, etc.) • The Target-Countries include third countries for which: <ol style="list-style-type: none"> (a) it is currently not possible to create and sign a Collaboration Agreement or Protocol in the fields of Research and Technological Development for a variety of reasons, and (b) there is no traditional collaboration through other funding sources (e.g. the current H2020) or any other collaboration framework in place (e.g. Mediterranean countries).
What Is Funded	Personnel costs, Costs for Foreign Research Organisations, Instruments and Equipment Costs, Costs for External Services, Foreign Travel Costs, Consumables, Other Specific Costs, Overheads. It is noted that for this Programme, the differentiation below applies with regards to the usual cost limits included in Chapter 3.4 of Section III of the present Work Programme: Costs for Foreign Research Organisations: Up to 30% of the total RPF funding.
Duration	Up to 24 months
Deadline	Are defined in the individual calls for proposals
Webpage	https://rio.jrc.ec.europa.eu/en/file/11683/download?token=TNZtYnB

Czech Republic

Table 86 - Czech Republic – Scholarships Study and Research Stays

Outline	Czech Government Scholarships to foreign nationals, pursuant to bilateral intergovernmental or departmental agreements concluded with a number of countries (China included). Scholarships are awarded to applicants – students or PhD candidates – who wish to pursue as study or research stay. They must be nominated by the competent authorities of eligible countries. For some countries, only academic staff members are eligible for exchange. The health education is a fundamental condition for leading an active and satisfied life and for optimum work productivity. The educational field of Health Education is closely linked with the cross-curricular subject of Personal and Social Education.
Research Fields	Formal sciences, Humanities, Natural sciences, Professions and applied sciences, Social sciences
Funding Agency	Ministry of Education, Youth and Sport of the Czech Republic

Eligibility	Nationalities, EU and non-EU, are defined by bilateral agreements
What Is Funded	Allowance 9.500 CZK (around 368 EUR) per month, plus tuition fees and student dormitory accommodation.
Duration	Usually 2 - 10 months
Deadline	Every year at the end of March
Webpage	https://euraxess.ec.europa.eu/jobs/funding/czech-government-scholarships-study-and-research-stays

Denmark

Table 87 - Denmark - D NRF-NSFC Joint Funding Scheme

Outline	The cooperation between the D NRF and the National Natural Science Foundation of China was established in 2005 and has given rise to 10 Danish-Chinese research centres. The objective was to promote collaboration between Chinese and Danish research groups within the life sciences, natural sciences, and technical sciences. The idea behind the program is to establish new contact between leading researchers from China and Denmark, rather than supporting existing projects. The program aims to launch initiatives that support cooperative efforts that result in excellent Danish-Chinese research.
Research Fields	Cancer research; Nanotechnology; Renewable energy; Information and Communication Technology (ICT), Natural Sciences, Nanotechnology, ICT, Renewable energy
Funding Agency	Danish National Research Fund, National Natural Science Foundation of China
Eligibility	Chinese and Danish researchers
What Is Funded	The D NRF offers 10-15 mil. DKK to the Danish research centre involved over a period of three years. The Chinese counterparts are supported by the NSFC. The centres have the possibility of extension into a second funding period.
Duration	3 Years, renewable once.
Deadline	Annually - The deadline for applications is usually in June
Webpage	https://eeas.europa.eu/sites/eeas/files/funding_guide_for_european_researchers_in_china.pdf

Estonia

Table 88 - Estonia - Estophilus' Scholarship and Kristjan Jaak Scholarships programme

Outline	Estophilus' Scholarship is for holders of a doctoral degree or Master-s or Doctoral students who are citizens of a foreign state and are studying at a university abroad, to write a research paper on an Estonia-related topic or to gather material for it. Kristjan Jaak Scholarships programme supports incoming and outgoing mobility, both short and long-term, for master-s and doctoral students as well as for teaching staff. The main objective of the programme is to strengthen the internationalisation of Estonian higher education institutions and employability of their graduates.
Research Fields	Humanities, Social sciences



	Formal sciences; Humanities; Natural sciences; Professions and applied sciences; Social sciences
Funding Agency	Estonian Ministry of Education and Research
Eligibility	Any nationality except for Estonian Master's and doctoral students, teaching staff.
What Is Funded	Subsistence expenses, tuition fees and costs directly connected with the research (500 EUR per month) The FORMAL STUDIES scholarship is to support foreign studies with the duration of one academic year. The scholarship can be applied for by doctoral students and first-year master's students.
Duration	2 - 5 months Depends on the type of grant
Deadline	1 st of March and 1 st of October The deadline for applications is once a year.
Webpage	https://euraxess.ec.europa.eu/jobs/funding/estophilus-scholarship http://haridus.archimedes.ee/en/kristjan-jaak-scholarships

Finland

Table 89 - Finland - Academy of Finland Joint Research Projects

Outline	Finnish-Chinese project collaboration aims to support long-term systematic research collaboration and the creation and strengthening of collaborative networks between Finland and China. The varying themes for joint project calls are mutually agreed by the Academy of Finland and the Chinese funding organisation.
Research Fields	All fields, topics decided annually
Funding Agency	Academy of Finland, National Natural Science Foundation of China, Chinese Academy of Sciences, Chinese Academy of Social Sciences
Eligibility	Finnish and Chinese researchers
What Is Funded	Academy funds salaries, travel expenses and research costs for Finnish researchers, Chinese organisation covers costs for Chinese researchers
Duration	3 years
Deadline	Usually in April or September. Exact application period should be asked to the Chinese higher institutions which are participating in this programme and directly manage the enrolment.
Webpage	https://eeas.europa.eu/sites/eeas/files/funding_guide_for_european_researchers_in_china.pdf

France

Table 90 - France - ATIP – Avenir Program

Outline	Every year, as part of a partnership, INSERM and the French National Centre for Scientific Research (CNRS) launch an ATIP – Avenir Program for proposals aimed at enabling young researchers to create and lead a team within an established INSERM or CNRS research centre. The teams formed will work to strengthen the research of the host unit by independently developing their own research projects. This program aims to promote mobility and attract young, high-calibre team leaders.
Research Fields	LS1: Molecular and Structural Biology, and Biochemistry



	<p>LS2: Genetics, Genomics, Bioinformatics and Systems Biology</p> <p>LS3: Cell Biology, Development and Evolution</p> <p>LS4: Physiology, Physiopathology and Translational Research</p> <p>LS5: Neurosciences and Disorders of the Nervous System</p> <p>LS6: Immunity, Infection and Microbiology</p> <p>LS7: Diagnostic tools, Therapies, Biotechnology and Public Health</p>
Funding Agency	INSERM and the French National Centre for Scientific Research (CNRS)
Eligibility	<p>The ATIP - Avenir program is open to young researchers of any nationality, who have successfully defended their Ph.D. thesis (or equivalent degree) in the last 2 to 10 years. Exceptions can be granted for maternity (1 year per child), paternity or military leave. The program is open to all young researchers, irrespective of their current position (Public Scientific and Technical Research Establishment (EPST), university, hospital, veterinary school, etc.) and to any non-tenured researcher. Applications from Doctors of Medicine/Pharmacy and women are strongly encouraged.</p> <p>Recipients of financial support for young researchers similar to the ATIP-Avenir program are not eligible (e.g. ANR or ERC funding to develop an independent project). Applicants must not have been working for their host laboratory for more than 18 months and may not work with any of their previous mentors. Exceptions can be granted to applicants from university hospitals. Applicants may submit their proposal without an identified host laboratory.</p>
What Is Funded	<p>The funding allocated includes at least:</p> <ul style="list-style-type: none"> • an annual grant of 60.000 EUR • a two-year fixed-term contract for a postdoctoral researcher • a three-year salary for non-tenured successful applicants <p>The host laboratory will provide the team with a dedicated research area of at least 50 m², (infrastructure fees will be paid by the host laboratory), and ensure access to the technological platforms on the site.</p>
Duration	A period of 3 years. After evaluation, it can be extended for an additional 2 years
Deadline	November 15 th , 2018 (this is annual funding programme)
Webpage	https://sp2013.inserm.fr/sites/eva/appels-a-projets/Documents/AtipAvenir/2019/ATIP-Avenir_Call_2019.pdf

Germany

Table 91 - Germany – Collaborative Call for Proposals

Outline	<p>DFG and NSFC launch annually a joint call for joint research proposals in the fields of Life Sciences, Medical Science, Natural Sciences and Engineering. Proposals should be based on substantial preparatory measures such as one or more bilateral workshops or conferences that have been successfully held in the Sino-German Centre in Beijing or elsewhere. They should target excellent groups of scientists on both sides. Furthermore, scientists on both sides as well as both funding organisations, should have expressed their intent to cooperate in this specific promising scientific field.</p>
Research Fields	Life Sciences, Natural Sciences and Engineering

Funding Agency	Deutsche Forschungsgemeinschaft (DFG), National Natural Science Foundation of China (NSFC)
Eligibility	German and Chinese researchers. In China, the principal investigator has to have a basic grant of NSFC.
What Is Funded	NSFC will fund the Chinese research partner and DFG will fund the German research partner. In the case of mutual visits of scientists, the visiting scientist will cover international flights and the host will provide the local accommodation together with a daily maintenance allowance and domestic travel costs
Duration	Up to three years
Deadline	Annual call
Webpage	Memorandum of Understanding: http://www.dfg.de/dfg_profil/im_internationalen_kontext/internationale_partner/China/index.html Announcements of DFG Joint Deadline: http://www.dfg.de/en/research_funding/announcements_proposals/international_context/index.html

Table 92 - Germany - BMBF Health Research Framework Programme

Outline	The Health Research Framework Programme funded by the BMBF focuses on all aspects of health research. It is aimed at enterprises, SMEs, research intuitions and universities and has three fields of action: <ul style="list-style-type: none"> • Prevention and treatment of diseases • Promotion of medical advance • Strengthen Germany’s position in research
Research Fields	<ul style="list-style-type: none"> • regenerative medicine • personalised medicine • digital medicine • medical devices
Funding Agency	Federal Ministry of Education and Research (BMBF)
Eligibility	N/A
What Is Funded	The programme is part of the German Hightech Strategy 2025 and will run for 10 years (2019-2029). It has a budget of around 2 billion euros.
Duration	N/A
Deadline	N/A
Webpage	https://www.gesundheitsforschung-bmbf.de/en/collaborations-in-global-health-8493.php

Greece

Table 93 - Greece – Scholarships Programme

Outline	University Professors of all levels, postdoctoral researchers (must be PhD holders) and renowned artists and musicians who wish to visit Greece in order to conduct scholarly research. The proposed research subject should be either directly related to the Greek culture, civilisation and history or have an obvious social return for Greece. Post-graduate students, PhD holders
Research Fields	Humanities, Social Sciences (excluding Law), Economic Sciences, ArtAll fields of knowledge



Funding Agency	The Onassis Foundation Ministry of Education and Religion
Eligibility	65 countries, incl. China. Greek citizens can be eligible providing they obtained a degree outside of Greece and have been permanently residing outside of Greece for more than 15 years. China and 22 other countries
What Is Funded	For university professors, postdoctoral, artists: A round trip air-ticket (economy class), a monthly allowance of 1,500 EUR. For post-graduate students and PhD candidates: A round trip air-ticket (economy class), a monthly allowance of 850 EUR. For Chinese applicants there are three different scholarships for studies and research, that last 10 months each. 450 EUR for the scholars in postgraduate studies or research; a lump sum allowance of 500 EUR for those who will be settled in Athens, 550 EUR for those who will be settled in the countryside, 150 EUR for travelling expenses.
Duration	3 up to 6 months 1 year for postgraduate studies and 2 years for doctoral diploma.
Deadline	Last deadline on February 28, 2019
Webpage	www.onassis.gr/en/scholarships-foreigners.php https://www.onassis.org/health/

Hungary

Table 94 - Hungarian Academy of Science

Outline	Distinguished scientists are invited by the Hungarian Academy of science to join them in order to produce research work with HAS research groups, research groups of the HAS or at other universities being part of the Has research group.
Research Fields	All fields
Funding Agency	Hungarian Academy of Sciences
Eligibility	All nationalities
What Is Funded	The total amount of funding available under this scheme for the year 2019 is HUF 50 million.
Duration	Between three and twelve months
Deadline	15th April 2019, 12:00 (CET)
Webpage	https://mta.hu/english/distinguished-guest-scientists-fellowship-programme-109372

Ireland

Table 95 - Ireland - SFI-NSFC Partnership

Outline	<p>The SFI-NSFC Partnership will fund excellent and innovative projects in priority areas of relevance to both the Republic of Ireland and to the People’s Republic of China. It is anticipated that future calls for proposals will include thematic areas within the life science field, particularly related to health.</p> <p>SFI also monitors, promotes, implements and audits international best practice in areas such as: Research Integrity, Health and Safety, Licensed Procedures, Human and necessary (reduce, refine, replace principles) use of animals in experimentation, Ethics, IP integrity, widespread dissemination of research findings, for example, through open access policies.</p>
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Research Fields	All research fields
Funding Agency	Science Foundation Ireland NSFC
Eligibility	Applicant based in Ireland will be responsible for the scientific and technical direction of the aspects of the research programme funded by SFI and the submission of reports to SFI. The eligibility of the Applicant based in China will be determined solely by NSFC and not by SFI. The Applicant based in China should consult with the NSFC regarding their eligibility for this call.
What Is Funded	SFI-NSFC Partnership grants are four years in duration. The minimum direct costs requested from SFI by the Applicant based in Ireland will be 500,000 EUR and the maximum will be 1,000,000 EUR. The NSFC will provide 4,000,000 RMB (direct costs) (around 517,000 EUR) for the research costs of the Applicant based in China.
Duration	Four years
Deadline	The deadline for submissions to SFI was the 30 th June 2017.
Webpage	http://www.sfi.ie/international/isca/china.html

Italy

Table 96 - Italy – Italy-China Science and Technology Cooperation

Outline	The Italian Ministry of Foreign Affairs and International Cooperation (MAECI) has recently published on its website the Italia-China call for joint science and technology research projects for the 2018-2020 period. The call falls into the framework of the Memorandum of agreement signed in Beijing in 2015 by the Italian Ministry of Foreign Affairs and International Cooperation (MAECI) and the Chinese National Natural Science Foundation of China (NSFC)
Research Fields	New materials, environment, physics and astrophysics; health (especially in the field of personalised medicine, genomics and chronic diseases).
Funding Agency	Italian Ministry of Foreign Affairs and International Cooperation (MAECI)
Eligibility	Bilateral research projects, namely joint projects where research activities are co-funded by both Parties. In this scheme a significant funding contribution by the applying proponent is mandatory. For Italy, the Principal Investigator (PI) of reference shall: <ul style="list-style-type: none"> • PI shall have Italian or any other EU nationality and be legally resident in Italy; • PI shall have a permanent working contract with a Public or Private Research Organisation recognised by the Ministry of Education, University and Research; • PI is entitled to submit only a single proposal; • Proposal shall be written in English language. The eligibility criteria for Chinese applicants are specified in the call published in the NSFC website.
What Is Funded	A significant contribution to the funding of activities shall come from applicants.
Duration	3 years

Deadline	The last deadline for application was on 22 June 2017.
Webpage	https://www.esteri.it/MAE/it/servizi/italiani/opportunita/al_mae https://www.esteri.it/mae/resource/garegemellaggi/2017/05/call_text_italy_nsfcd

Latvia

Table 97 - Latvia - Latvian Government Fellowships for Research

Outline	Latvian Government Scholarship is for citizens from countries which have signed an Agreement on education and science or offer scholarships for Latvian students. Academic staff of foreign HEIs are eligible.
Research Fields	All areas (including life science)
Funding Agency	Ministry of Education and Science of the Republic of Latvia
Eligibility	Academic people, from EU countries, Chinese and other nationalities, depending on bilateral co-operation in education and science.
What Is Funded	Minimum 28,46 EUR/day and 170,74 EUR at maximum per month for accommodation
Duration	5 months
Deadline	1st April 2019
Webpage	http://www.viaa.gov.lv/eng/international_cooperation/scholarships_gov/fellowships_for_research/ https://www.izm.gov.lv/images/starpvaidibu_ligumi/Agreement_Science_2018.pdf

Lithuania

Table 98 - Lithuania - Research Council of Lithuania

Outline	Researcher groups projects provides a possibility for a researcher or a group of researchers to conduct research on their own proposed topic (bottom-up initiative).
Research Fields	Humanities and social sciences and Natural, Medical and Health, Agricultural sciences and Technology
Funding Agency	Research Council of Lithuania
Eligibility	All nationalities
What Is Funded	World class research projects
Duration	Project can only last 3 years maximum
Deadline	Calls open between Spring/summer
Webpage	https://www.lmt.lt/en/competitive-research-funding/researcher-initiated-projects/researcher-groups-projects/804

Luxembourg

Table 99 - Luxembourg - Pearl Programme

Outline	With the PEARL programme, the FNR offers Luxembourg research institutions attractive funding to enable them to draw established and internationally recognised researchers from abroad to Luxembourg.
Research Fields	Through the recruitment of outstanding scientists in strategically important areas (health included), the FNR aims to accelerate the development and strengthening of Luxembourg's national research priorities.
Funding Agency	All areas
Eligibility	Fonds National de la Recherche (FNR)
What Is Funded	The following organisations established within Luxembourg are eligible for financial support from the FNR under the PEARL programme: <ol style="list-style-type: none"> 1. Public institutions performing research in Luxembourg; 2. Non-profit associations and foundations performing research in Luxembourg and that have obtained a special authorisation from the Ministry for Higher Education and Research. <p>The FNR foresees to grant 1 to 2 PEARL awards (3-4 M€ each) per year.</p>
Duration	5 years
Deadline	16 October 2018
Webpage	http://www.fnr.lu/funding-instruments/pearl/ http://storage.fnr.lu/index.php/s/tVHBKTY5xHnEdR/download

Malta

Table 100 - Malta - FUSION Technology Development Programme

Outline	FUSION Technology Development Programme (TPD) is a national funding programme which supports the actual development of innovative projects proposed by public entities and industry players. Innovative e-health solutions as well as solutions for active and healthy ageing will be given particular consideration because both of these focus areas benefit from the integration of medical sciences in Malta.
Research Fields	ICT, tourism product development, maritime services, aviation and aerospace, health, resource-efficient buildings, high value-added manufacturing and aquaculture.
Funding Agency	Malta Council for Science and Technology (MCST)
Eligibility	Anyone who is applying for the TPD call within the first two opportunities following the successful completion of the commercialisation voucher programme (CVP).
What Is Funded	The maximum possible funding for a project across the consortium is 195.000 EUR
Duration	Between one and three years
Deadline	The call closed on 24th April 2019. Another call will open early October.
Webpage	https://mcst.gov.mt/ri-programmes/fusion/technology-development-programme/open-previous-calls/#1558594096076-bd0fb89e-39bc

The Netherlands

Table 101 - The Netherlands - NWO-NSFC Co-operation

Outline	NWO has a cooperation agreement with the National Natural Science Foundation of China (NSFC) in Beijing. The programme aims to promote contact between Dutch and Chinese researchers in the natural sciences (medical science included) (i.e. all sciences except the social sciences and the humanities) and execute joint research projects.
Research Fields	Science area: Exact and Natural Sciences, Social Sciences and Humanities, Applied and Engineering Sciences, WOTRO Science for Global Development, Medical Sciences
Funding Agency	Netherlands Organisation for Scientific Research (NWO) National Natural Science Foundation of China (NSFC)
Eligibility	Netherlands-based researchers, Chinese researchers
What Is Funded	International travel costs, and local travel and subsistence costs for a stay in China of between 1 and 3 months can be applied for. For a bilateral joint seminar, a contribution to the costs can be requested.
Duration	1 to 3 months
Deadline	Annual call – for the travel call, there are no deadlines.
Webpage	https://www.nwo.nl/en/funding/our-funding-instruments/nwo/cooperation-china-nsfc/index.html

Table 102 - The Netherlands - NWO-NSFC Programme, Joint seminars

Outline	The aim of Cooperation China (NSFC) - Joint seminars is to promote the contacts between Dutch and Chinese researchers in the area of the natural sciences. The funding arises from a joint agreement between NWO and the National Natural Science Foundation of China (NSFC) in Beijing.
Research Fields	All
Funding Agency	Netherlands Organisation for Scientific Research (NWO) National Natural Science Foundation of China (NSFC)
Eligibility	Netherlands-based researchers, Chinese researchers
What Is Funded	The maximum amount per seminar is 15,000 euros.
Duration	N/A
Deadline	There are no deadlines. The processing time of an application is at most six months.
Webpage	https://www.nwo.nl/en/funding/our-funding-instruments/nwo/cooperation-china-nsfc/cooperation-china-nsfc---travel-and-subsistence-costs-seminars/cooperation-china-nsfc---joint-seminars/cooperation-china-nsfc---joint-seminars.html

Poland

Table 103 - Poland – SHENG

Outline	Polish-Chinese research teams to be launched by the National Science Centre (NCN) and the National Natural Science Foundation of China (NSFC). The programme aims to support research projects in all fields of the Natural, Engineering, Life and Management sciences.
Research Fields	Life Sciences, Physical Sciences and Engineering and Health - in particular clinical psychology, penitentiary, rehabilitation, clinical neuropsychology
Funding Agency	National Science Centre (NCN) National Natural Science Foundation of China (NSFC)
Eligibility	Only projects involving basic research will be funded. A Principal Investigator (PI) may submit only one proposal under the same call. Research project duration: 36 months. All costs must be eligible according to the national eligibility requirements.
What Is Funded	The competition will be able to join the applicant for basic research. The SHENG competition will be funded by research projects in which Polish and Chinese teams are involved, and for which international cooperation is of paramount importance.
Duration	Research project duration: 36 months.
Deadline	Start of project implementation: June 1-October 31, 2019 (Polish scientific teams), July 2019 (Chinese scientific teams)
Webpage	https://www.ncn.gov.pl/wspolpraca-zagraniczna/wspolpraca-wielostronna/konkurs-sheng

Portugal

Table 104 - Portugal - Sino-Portuguese Programme for Cooperation in Science & Technology

Outline	The Sino-Portuguese Programme of Cooperation in Science and Technology facilitates bilateral cooperation between researchers of the two countries by way of exploratory visits, joint R&D projects, and seminars/workshops. The Ministry of Science and Technology of China of the People’s Republic of China (MOST) and FCT (Ministry of Science, Technology and Higher Education of Portugal), are the agencies that implement the programme, in China and in Portugal, respectively.
Research Fields	Health Science, material science, biotechnology, agricultural sciences, chemistry, engineering, software and computing sciences, energy, ecology and environment.
Funding Agency	FCT (Fundação Ciência e Tecnologia) and Department of International Cooperation Ministry of Science and Technology of the People’s
Eligibility	Every team has to have young researchers otherwise they will be excluded. New teams and or projects have priority.
What Is Funded	Financial support available for the exchange visit component is as follows: <ul style="list-style-type: none"> • the sending side provides economy/excursion return international airfare up to the relevant entry city of the host country as well as medical insurance; • the receiving side arranges in-country travel of the visiting scientists by the appropriate means and provides local hospitality.



	Funding for the second year is dependent on submission and approval of the technical/financial report. This report should be sent to the Department for International Relations, after completion of the first-year exchange.
Duration	2016-2018
Deadline	29 February 2016
Webpage	https://www.fct.pt/apoios/cooptrans/china/index.phtml.en

Slovakia

Table 105 - Slovakia - Slovak Government Outgoing Scholarship

Outline	This programme is intended to support mobility of Slovak Master students, PhD students, university teachers and researchers to carry out research in universities and research institutions abroad. It also supports travel grants related to study, research, artistic or teaching stays abroad.
Research Fields	All
Funding Agency	Slovak Academic Information Agency
Eligibility	Any nationality
What Is Funded	Within this call for applications, 275 applicants (students - 66 applications; PhD students - 47 applications; university teachers/researchers/artists - 162 applications) from 45 countries have applied for a scholarship in the framework of the National Scholarship Programme of the Slovak Republic.
Duration	1-12 months
Deadline	Next application deadline, for scholarship stays during the summer semester of the academic year 2019/2020, will be 31.10.2019.
Webpage	www.scholarships.sk/en/

Slovenia

Table 106 - Slovenia - Bilateral Scholarships for Foreign Students

Outline	Incoming mobility for short study or research stays to Slovenia. The scholarships, offered on the basis of bilateral agreements with several countries, offer short time study stay or a research visit, usually by doctoral students or candidates, to pursue an independent research at the host institution depending on their qualifications and preferences.
Research Fields	Formal sciences, Humanities, Natural sciences, Professions and applied sciences and Social sciences
Funding Agency	The Ministry of Education, Science, Culture and Sport of the Republic of Slovenia
Eligibility	The age limit of the applicant for a study stay is 26 and 30 years for research visit. The Ministry of Education, Science, Culture and Sport of the Republic of Slovenia offers a number of scholarships to foreign nationals. The applicants for study stays should be proficient in the Slovene language, unless the working language is agreed upon with the mentor/supervisor.
What Is Funded	Monthly allowance (€286), accommodation and basic insurance



Duration	3-10 months
Deadline	March, 31 2019
Webpage	https://eng.cmepius.si/wp-content/uploads/2018/11/Invitation-Slovenia-Bilateral-scholarships-2019-20_ad.pdf

Spain

Table 107 - Spain - "TORRES QUEVEDO" CONTRACTS

Outline	The State Plan 2017-2020, as in the period 2013-2016, is integrated by four programs, in turn, to the objectives. Its employability, generation of knowledge and strengthening of the system, business leadership in R&D+I. The Torres Quevedo (PTQ) Contract is an aid of three years' duration for companies, technology centres of national scope, technological innovation support centres of a national scope, business associations and science and technology parks for the employment of doctors developing bearing on industrial research projects or experimental development or previous feasibility studies, in order to favour the professional career of the researchers, as well as for stimulating the demand in the private sector for personnel sufficiently prepared to undertake R&D plans and projects, and for helping the consolidation of recently created technology companies.
Research Fields	Formal sciences, Humanities, Natural sciences, Professions and applied sciences, Social sciences and Health
Funding Agency	Sub directorate General of Human Resources for Research, Ministry of Economy and Competitiveness
Eligibility	Doctors who wish to be wired by companies to work on R&D+I in order to develop experimental and innovation research projects. These companies could be Technology-based, Young innovative Companies (YICs), Business Associations and others.
What Is Funded	A maximum of 200 grants with a maximum budget of 15,000,000 euros. The amount that is financed depends on different criteria such as the type of project and the type of company. It is necessary to take into account the maximum net intensity established by the EU regulation on State Grants. The annual eligible budget will only cover gross annual remuneration equal or over 18,000 euros and it cannot exceed 55,000 euros.
Duration	3 years
Deadline	14 February 2019
Webpage	www.idi.mineco.gob.es/portal/site/MICINN/menuitem.7eac5cd345b4f34f09dfd1001432ea0/?vgnnextoid=83b192b9036c2210VgnVCM1000001d04140aRCRD Contact - torresquevedo@mineco.es

Sweden

Table 108 - Sweden - Joint China-Sweden Mobility

Outline	The aim of Joint China-Sweden Mobility is to strengthen Swedish research and higher education by developing and establishing international partnerships. The programme supports projects of high scientific quality which are clearly contributing to the activities of participating institutions.
Research Fields	All (including health)

Funding Agency	Swedish Foundation for International Cooperation in Research and Higher Education (STINT)
Eligibility	Applications will be assessed by experts, focusing on how the proposed international partnership fulfils the following three criteria: <ul style="list-style-type: none"> • contribution to the institutions' internationalisation, • scientific quality and novelty and • planning and support. Only scientific results from the last five years are taken into consideration for the assessment.
What Is Funded	Up to 400,000 RMB (52,000 EUR) from NSFC and up to 600.000 Swedish krona (56.000 EUR) from STINT is allocated for each approved joint project.
Duration	Duration of the approved projects lasts 3 years.
Deadline	The next call will be published during spring 2019.
Webpage	https://www.stint.se/en/program/joint-china-sweden-mobility/

United Kingdom

Table 109 - United Kingdom - Royal Society International Exchanges Scheme

Outline	These schemes are for scientists based in the UK (or US for the Kan Tong Po programme) who want to stimulate collaborations with leading scientists overseas through either a one-off visit or bilateral travel.
Research Fields	Life and physical sciences. In particular Anatomy, Physiology, Neurosciences, Health and Human Sciences.
Funding Agency	Royal Society
Eligibility	UK-based and China-based researchers
What Is Funded	The Standard Programme is available for travel to/from all countries outside the UK. The funding available is dependent upon the length of the visit. Applicants may request: <ul style="list-style-type: none"> • up to of 3.000 GBP (3.400 EUR) for one-off travel lasting up to three months; • up to 6.000 GBP (6.800 EUR) for multiple visits to be completed within one year (including a maximum of 1,500 GBP (1.700 EUR) for research expenses); • up to 12.000 GBP (13.600 EUR) for multiple visits to be completed within two years and cost share projects fixed at two years (including a maximum of 3.000 GBP (3.400 EUR) for research expenses).
Duration	Awards are available for either up to 3 months, 1 year or 2 years.
Deadline	This scheme is open to applications and closes at 3pm on Thursday 30 May 2019.
Webpage	https://royalsociety.org/grants-schemes-awards/grants/international-exchanges/

Table 110 - UK-China Joint Research and Innovation Partnership Fund PhD Placement Programme

Outline	The Fund aims to build UK-China research and innovation collaborations centred on these shared research and innovation challenges, which have direct relevance to both the UK's and China's social welfare and economic development.
Research Fields	<ul style="list-style-type: none"> • health and life sciences (e.g. HIV/AIDS, malaria, tuberculosis, neglected tropical diseases, child mortality, maternal health) • environmental technologies (e.g. climate change, green technology, sustainable development, ecosystem services, resource scarcity) • food and water security • energy • urbanisation • education and creative economy for economic development and social welfare
Funding Agency	British Council
Eligibility	On the UK side, applications will be considered from all UK institutions with a strong research record in the agreed fields. Applicants must hold either UK passport OR passports from countries that have diplomatic relations with China. Chinese students studying for their PhDs at UK universities are not eligible
What Is Funded	Mobility grants are intended to support UK PhD supervisors in visiting the host university during their students' placement for a total period of up to four weeks.
Duration	4 years
Deadline	20 September 2018
Webpage	https://www.britishcouncil.cn/sites/default/files/phd_placement_for_uk_applicants_-_20180820.pdf

3.2 Health funding schemes and programmes in China

In line with section 3.1, this section provides the mapping of several health funding schemes and programmes available in China. Taking this into account, the selection criteria for the funding schemes and programmes were developed based on the following:

- Schemes and programmes promoted by national Chinese funding agencies.
- Schemes and programmes that are part of framework agreements between Chinese and the EU / EU MS agencies.
- Joint EU-China schemes and programmes focusing on health research.
- Schemes and programmes that provide funding for international cooperation – focusing specifically on EU-China joint actions.

The schemes and programmes identified are mainly from the Chinese national level, such as Key R&D Programmes, National Natural Science Fund, Major S&T Projects, Technology Innovation Guidance Fund and Bases, and Talents Programme. The programmes included in this section are part of the five major funding pillars regulated by the Chinese central government. Under each funding programme, the health research areas are highlighted.

National Natural Science Fund

Table 111 - National Natural Science Fund - General Programme – Life Science Department

Outline	The Department of Life Sciences funds a broad-spectrum including biology, agricultural sciences and basic medicine, which extends to various fields of resources, environment, ecology, population and health,
Research Fields	Basic research on morphology, structure and function of cells, tissues, organs and systems, and actively support researches related to human physiology, biochemistry, immunology, reproduction, development, aging, stem cell and tissue engineering
Funding Agency	National Natural Science Fund
Eligibility	Applicants should provide the hard copy of the certification of ethic committee from their host institutions or the superior administrative agencies, as well as electronic copy submitted as attachment in NSFC's information system.
What Is Funded	Received 11,028 proposals, of which 10,703 were accepted for General Programme and 2,902 projects were funded, including projects of Small Fund for Exploratory Studies
Duration	The duration of General Programme projects is 4 years. (Only in-site post-doctoral researchers should determine the duration of the project based on the written commitment from the host institutions.)
Deadline	Annual call
Webpage	http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/01/03sm/index.html

Table 112 - National Natural Science Fund - General Programme - Health Science Department

Outline	To support basic research on issues concerned with disease prevention, disease control and disease treatment in China, the department gives priority to basic research on major key diseases closely related to the national welfare, human livelihood, major emergency event of public health, and common or frequently encountered diseases.
Research Fields	Innovative theoretical and methodological research aimed at the scientific issues emerging from medical practices
Funding Agency	National Natural Science Fund
Eligibility	<ol style="list-style-type: none"> 1. Applicants are encouraged to carry out in-depth basic research toward scientific issues, especially the original research. 2. Applicants are expected to elaborate the scientific values and potential clinical applications of the anticipated research results in detail 3. Applicants are expected to provide true and accurate information in their applications, including the curriculum vitae and major participants
What Is Funded	In 2017, the number was 57,454 (from 1,039 research institutions), accounting for 28.45% of the total applications in NSFC.
Duration	The duration of General Programme projects is 4 years.
Deadline	Annual call
Webpage	http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/01/08yx/index.html



Table 113 - National Natural Science Fund - Key Programme – Department of Life Sciences

Outline	The Department of Life Sciences accepts two types of applications for the Key Programme. One of them, the majority of total applications, is guided by designated areas (ADA for short) and the other, complementary to ADA, is to freely select research areas (ANA for short).
Research Fields	Microbiology; biophysics, biochemistry and molecular biology; biomechanics and tissue engineering; physiology and integrative biology and cell biology.
Funding Agency	National Natural Science Fund
Eligibility	Applicants should correctly apply for the Key Programme according to the funding areas.
What Is Funded	In 2017, the Department of Life Sciences received 537 applications, among which, 479 applications were for ADA and 449 were accepted, of which 101 projects were funded at a success rate of 21.09%.
Duration	The duration of General Programme projects is 4 years.
Deadline	Annual call
Webpage	http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/02/03.html

Table 114 - National Natural Science Fund - Key Programme – Department of Health Sciences

Outline	Applications for Key Programme in the Department of Health Sciences are accepted only if they are in response to the solicited thematic areas listed in the Guide to Programs. Applicants are expected to give their own specific project titles, research contents and research plans according to the listed areas.
Research Fields	Chronic disease, remodelling of myocardium, digestive diseases
Funding Agency	National Natural Science Fund
Eligibility	Applicants are expected to refer to the requirement for General Programme in the Department of Health Sciences in this Guide. Applicants are expected to choose the relevant application code corresponding to the given thematic area and to fill in the application.
What Is Funded	In 2018, approximately 110 applications for the Key Programme will be awarded by the Department; the funding intensity of direct cost is expected to be 3 million yuan per project, and the duration is 5 years.
Duration	The funding period of a Key Programme project is 5 years.
Deadline	Annual call
Webpage	http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/02/08.html

Table 115 - National Natural Science Fund - Young Scientists Fund - Department of Life Sciences

Outline	The Young Scientists Fund supports young scientists to freely choose their research topics within the funding scope of NSFC to conduct basic research, fosters the ability of young scientists to independently undertake research projects and conduct creative research, stimulates young scientists' creative thinking and trains backup talents for basic research.
Research Fields	Respiratory, Reproductive system, Medical imaging and biomedical engineering, Medical pathogenic microorganisms and infection Chinese medicine.
Funding Agency	National Natural Science Fund
Eligibility	(1) Have experience of doing basic research; (2) Have senior professional position (title) or PhD degree, or be recommended by 2 researchers with senior professional position (title) in the same research area; (3) Should be younger than 35.
What Is Funded	In 2017, the Department of Life Sciences received a total of 10,566 applications for the Young Scientists Fund. 10,238 applications were accepted and 2,395 projects were funded with a success rate of 22.67%.
Duration	n/a
Deadline	Annual call
Webpage	http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/02/08.html

Table 116 - National Natural Science Fund - Young Scientists Fund – Department of Health Sciences

Outline	The Young Scientists Fund supports young scientists to freely choose their research topics within the funding scope of NSFC to conduct basic research, fosters the ability of young scientists to independently undertake research projects and conduct creative research, stimulates young scientists' creative thinking and trains backup talents for basic research.
Research Fields	Microbiology, Immunology, Neurosciences, Cell biology
Funding Agency	National Natural Science Fund
Eligibility	Eligible young scientists are encouraged to submit proposals to the Department for funding. Applicants are expected to have the ability to undertake and complete research project independently, and the ability to identify creative scientific questions and research schemes.
What Is Funded	In 2017, the Department of Health Sciences funded a total of 4,200 project.
Duration	n/a
Deadline	Annual call
Webpage	http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/02/08.html

National Science and Technology Major Project (NMP)

Table 117 - National Science and Technology Major Project (NMP) - Significant New Drugs Development

Outline	Major Project for Significant New Drugs Development was launched in 2008, by the National Health Commission and the Military Commission logistics and Support Department led the implementation of the Organization.
Research Fields	10 major diseases including malignant neoplasms, cardiovascular and cerebrovascular diseases, neurodegenerative diseases, diabetes mellitus, mental diseases, autoimmune diseases, drug-resistant pathogenic bacteria infection, tuberculosis, viral infectious diseases
Funding Agency	MoST
Eligibility	Applicants shall apply according to the research contents, assessment indexes, relevant instructions, implementation period, declaration method and other requirements in the Declaration guide.
What Is Funded	The detailed funding is available in website.
Duration	2 years
Deadline	March-April yearly
Webpage	http://www.nmp.gov.cn/tztg/201902/t20190218_6181.htm

Table 118 - National Science and Technology Major Project (NMP) - Prevention and treatment of major infectious diseases

Outline	Programme aims to prevent and control of infectious diseases by creating a preventive and control system for research and development of infectious disease diagnosis, prevention and protection products on AIDS, viral hepatitis B and other major infectious diseases.
Research Fields	AIDS, viral hepatitis B and other major infectious diseases.
Funding Agency	MoST
Eligibility	Applicants shall apply according to the research contents, assessment indexes, relevant instructions, implementation period, declaration method and other requirements in the Declaration guide.
What Is Funded	The detailed funding is available in website.
Duration	2 years
Deadline	March-April yearly
Webpage	http://www.nmp.gov.cn/tztg/201902/t20190218_6180.htm

National Key R&D Programmes (NKP)

Table 119 - National Key R&D Programmes (NKP)

Outline	NKPs support R&D in areas of social welfare and people's livelihood, such as agriculture, energy and resources, environment, and health, focusing especially on strategic, fundamental and prospective major scientific issues,
Research Fields	Agriculture, energy and resources, environment, and health, focusing especially on strategic, fundamental and prospective major scientific issues,
Funding Agency	MoST
Eligibility	Applicants must possess in order to apply to NKPs <ul style="list-style-type: none"> - General requirements outlined by the Interim Measures; and - Additional requirements applying to individual NKPs
What Is Funded	A total of 2,288 projects were funded under the 2016 and 2017 annuals calls for 42 NKPs.
Duration	One year
Deadline	2018 annual calls were published in October 2017 and December 2017.
Webpage	http://www.most.gov.cn/mostinfo/xinxifenlei/fgzc/gfxwj/gfxwj2017/201706/t20170628_133796.htm

Technology Innovation Guiding Fund

Table 120 - Technology Innovation Guiding Fund

Outline	Similar to National Key R&D Programmes (third funding pillar), the Technology Innovation Guiding Fund emerged from a structural re-organisation, re-classification and merging of previously existing national funds from different government departments. It consists of three main funds, which are in turn organised into several sub-funds or funds-of-funds (FOFs).
Research Fields	All
Funding Agency	Various
Eligibility	Applicants (consisting of limited partnerships among local governments, enterprises and financial institutions, and led by an investment firm) apply to be selected as national-level FOFs or sub-funds through public bid. Once selected, national-level FOFs and sub-funds will re-invest in enterprises.
What Is Funded	As of December 2017, a total of 3 major funds and 65 FOFs or sub-funds were created, amounting to a total of 114,1 billion RMB.
Duration	n/a
Deadline	n/a
Webpage	http://chinainnovationfunding.eu/technology-innovation-guiding-fund/

Bases and Talents Programme

Table 121 - Bases and Talents Programme

Outline	It is directed to universities, research structures, enterprises, and individual talents and teams. the Bases and Talents Programme emerged from a structural re-organisation and merging of several previously-existing programmes from MOST and NDRC.
Research Fields	All
Funding Agency	Various
Eligibility	China-based affiliated of EU entities which are well-renowned and appreciated for their achievements and contributions to the Chinese innovation ecosystem are well-positioned to become beneficiaries of the above programmes, in particularly the National Enterprise Technology Centres.
What Is Funded	The funding provided by multiple agencies.
Duration	n/a
Deadline	n/a
Webpage	http://chinainnovationfunding.eu/bases-and-talents-programme/

3.3 Main health research and innovation actors in schemes and programmes

This section presents an overview of the main research and innovation actors in different schemes and programmes between the EU / EU MS and China. Taking into account the mapping developed under the previous sections for the health funding agencies, schemes and programmes, the project team lists the main research and innovation actors that participate in those joint initiatives or schemes. Within this context, the table below shows the main Chinese and European actors that are involved in projects or initiatives according to the following criteria:

- Actors involved in schemes and programmes that promote the EU / EU MS and China cooperation.
- Actors that are responsible and/or part of relevant schemes and programmes previously identified.
- Actors of the Chinese and the EU / EU MS agencies framework agreements.
- Actors from joint EU-China schemes and programmes focusing on health research.

Table 122 - Main health research and innovation actors in schemes and programmes

Country	Organisation	Type of organisation	Contact Person	Position	E-mail
Belgium	Faculty of Bioscience Engineering,	University	Prof. Guy Smagghe	Research Associate	guy.smagghe@ugent.be
China	Tianjin University	University	Peng Yu	Professor of Medicinal Chemistry, Eminent Scholar/Thousand Talents Plan of Tianjin	yupeng@tust.edu.cn
China	Maynooth University	University	Dr. Yinya Liu	Beijing Coordinator	YINYA.A.LIU@NUIM.IE
China	China Scholarship Council	Funding Agency	Mr. Zhou Baisong	-	ouzhou@csc.edu.cn
China	Ministry of Science and Technology	Ministry / Funding Agency	Mr. Zhang Jianguo	Vice Minister of the Ministry of Science and Technology (PR China)	-
China	International Co-Innovation Centre for Advanced Medical Technology	Research Centre	Dr. Hui Wu	Founder CEO	info@iccamt.com
Czech Republic	University Hospital Hradec Králové	University	Prof. MU Dr. Vladimír Palička	Director	vladimir.palicka@fnhk.cz
Denmark	Sino-Danish Centre for Education and Research (SDC)	Research Centre	Kim Ryun Drasbek	Associate Professor, Department of Clinical Medicine	ryun@cfin.au.dk
Denmark	International Network Programme	International Research Network	Ditte Nissen Lund	Academic Officer at Ministry of Higher Education and Science	dnl@ufm.dk
Finland	China - Finland Strategic ICT Alliance	Research Programme	Dr. MATTI HÄMÄLÄINEN	Coordinator	matti.hamalainen@dimec.com
France	ANR	Funding Agency / Research Centre	Dr Paul Célestin Bakala	Programme Coordinator	mrsei@agencerecherche.fr
France	CNRS	Funding Agency / Research Centre	Antoine Mynard	Directeur du Bureau Chine	mrsei@agencerecherche.fr



Country	Organisation	Type of organisation	Contact Person	Position	E-mail
France	Strasbourg University	University	Laurent Desaubry	CNSR Reseach Director at the Starsbour University	desaubry@unistra.fr
Germany	Global Antimicrobial Resistance Research and Development Hub (Global AMR R&D Hub)	Research Centre	Dr. Timo Jäger	Project Leader	timo.jaeger@dzif.de
Germany	Health Research Framework Programme	Research Network	Dr. Heide Weishaar	Research Associate	heide.weishaar@dlr.de
Greece	Hellenic Society of Chinese Medicine (HSCM)	Medical Society	Giorgos Tzigounakis	Vice President	animart.design@gmail
Hungary	Chi-Huang Dr Chen Patika Medical Centre Hungary	Medical Centre	Dr. Chen Zhen	Founder	medic@drchenpatika.com
Ireland	Maynooth University	University	Ms. Sharon Dillane	Irish Coordinator	ISCP@NUIM.IE
Italy	National Research Council (CNR)	Research Centre / Funding Agency	Prof. Massimo Inguscio	President	presidenza@cnr.it
Portugal	Nova School of Business and Economics	University	Daniel Traça	Dean Professor	danieltraca@novasbe.pt
Sweden	Sino-Swedish Environmental and Health Laboratory	Research Programme	Åke Bergman	Head of the Swedish Toxicology Sciences Research Centre (Swetox)	ake.bergman@swetox.se
United Kingdom	Newton Fund Manager, British Council China	Funding Agency	-	-	newtonfundchina@britishcouncil.org.cn



3.4 Existing and emerging EU-China projects on health

After the mapping developed for the main schemes, programmes and actors focusing on EU-China health research, it is relevant to detail a set of existing projects and joint-initiatives between the EU and China. Within this context, the following selection criteria were applied for identifying the main EU-China joint projects on health research:

- Collaborative projects that include EU and Chinese partners and participants;
- Thematic focus should be on health – either as part of a more general subject, or specifically focused on health.
- Projects with a budget over 1.000.000 EUR.
- Projects that have initiated / finished from 2014 onwards.
- Promoting international cooperation – with a particular focus on China.
- Having joint cooperation agreements with Chinese agencies.

Table 123 - Existing and emerging EU-China projects on health

No	Initiative / Project	Time Frame	Budget	Website
1	ORIENT Plus	Between 2011 and 2014	4.455.580 EUR	https://www.orientplus.eu/
2	PRODEMOS	Start date: 1 January 2018 End date: 31 December 2022	2.999.097,50 EUR	https://www.prodemos-project.eu/
3	AiPBAND	Start date: 1 January 2018 End date: 31 December 2021	3.687.311 EUR	https://www.aipband-itn.eu/
4	MNR4SCell	Start date: 1 January 2017 End date: 31 December 2020	1.755.000 EUR	https://warwick.ac.uk/
5	FabSurfWAR	Start date: 1 January 2015 End date: 31 December 2018	1.291.500 EUR	https://warwick.ac.uk/
6	Ageing with elegans	Start date: 1 May 2015 End date: 31 April 2020	7.305.146 EUR	http://www.h2020awe.eu/
7	UROSENSE	Start date: 1 January 2012 End date: 31 December 2015	2.482.306 EUR	http://bit.do/UROSENSE
8	BBDiag	Start date: 1 January 2017 End date: 31 December 2020	3.465.708,24	http://bbdiag-itn-etn.eu/
9	HealthyLivestock	Start date: 1 September 2018 End date: 31 August 2022	6.982.237,75 EUR	http://bit.do/HealthyLivestock
10	ERICENA (European Research Innovation Centre of Excellence in China)	Start date: 1 January 2017 End date: 31 December 2020	3.589.000 EUR	http://china.enrichcentres.eu/

1. ORIENTplus

The ORIENTplus project connected the research and education (R&E) communities of Europe and China, providing the highest capacity connection and shortest network path between the two regions and underpinning a wide range of data-intensive Sino-European scientific and academic collaborations, including participation in the LHC experiments, the ITER fusion project, radio-astronomy, severe-weather forecasting, agriculture, astrophysics and e-learning initiatives. ORIENTplus underpins a wide range of data intensive Sino-European scientific collaborations, including participation in the Large Hadron Collider (LHC) studies, the ITER global energy fusion programme, projects at the Shanghai Astronomical Observatory. The ARGO-YBJ cosmic ray observation initiative and genome projects between the European Bioinformatics Institute (EBI) and the Beijing Genomics Institute (BGI).

Main outcomes of this project:

- ORIENTplus tackles the data deluge generated by joint Sino-European DNA sequencing, enabling rapid advances in the medical sciences
- Revealing the mysteries of the universe
- ORIENTplus revolutionises the way radio astronomers collaborate by handling massive data transfers from telescopes in Europe and China, providing new insights into the origins of the universe
- Taking global learning for a new level
- ORIENTplus enables advanced, real-time knowledge transfer through innovative e-learning tools of the Shanghai Lectures, overcoming the complexity of a multi-cultural and interdisciplinary learning

Consortium: GÉANT Limited, UK (Project coordinator); GÉANT, UK; China Education and Research Network, China; China Science and Technology Network, China

2. PRODEMOS

PRODEMOS builds on an existing eHealth intervention that will be adapted to a mHealth platform for dementia prevention, specifically tailored to vulnerable populations in HIC and LMIC, and will be implemented in multiple settings to pave the way towards a scalable, global strategy for dementia risk reduction. Broad implementation of this strategy now can reduce the global dementia burden for the coming decades.

The aim of this project is to make an evidence-based dementia prevention strategy using mobile Health accessible to those at increased risk of dementia who are usually not reached by preventive medicine. The final aim of the project is to implement this flexible fully adaptable mHealth platform in a culturally appropriate form in a range of health care settings across the globe.

Main outcomes of this project:

- Developing general concept of self-management of risk factors to prevent dementia;
- Acceptability and usability of the mHealth platform prototype for sustained lifestyle behaviour change;
- Cost-effectiveness analysis on the future course of dementia prevention strategies.

Consortium: Academisch Medisch Centrum bij de Universiteit van Amsterdam, Netherlands (project coordinator); Academic Medical Centre Amsterdam, Netherlands; University of Cambridge, UK; Capital Medical University, China; Vital Health Software, Netherlands; Karolinska Institutet, Sweden; INSERM, France; University of Sussex, UK; Alzheimer Europe, Luxembourg

3. AiPBAND

AiPBAND will focus on gliomas, a range of devastating and progressive brain tumours affecting around 25,000 people each year in Europe and responsible for the majority of deaths from primary brain tumours. The mission of AiPBAND is to train a new generation of entrepreneurial and innovative early-stage researchers (ESRs) in the early diagnosis of brain tumours using molecular biomarkers in the blood, meeting the medical and societal challenges of this emerging field.

To ensure exploitation of AiPBAND's achievements, and maximise the ESRs' abilities in creative & innovative thinking, the local training courses, network-wide events, secondments, personalised career development plans are applied to individual research projects under the Vitae Researcher Development Framework.

Main outcomes of this project:

- Identify novel blood biomarkers from patients with gliomas.
- Design three types of multiplex biosensor (plasmonic-based, graphene-based, and digital ELISA assay-based),
- Develop a big data-empowered intelligent data management infrastructure, and
- Develop cloud-based diagnostic systems.

Consortium: University of Plymouth, UK (project coordinator); ENGAGE - KEY TECHNOLOGY VENTURES AG, Germany; B. BRAUN MELSUNGEN AG, Germany; Hunan University, China; China Capital Medical University, China; Beijing Genome Institute, China; Biotecture Ltd, Netherlands

4. MNR4SCell

The proposed "Micro/nano robotics for single cancer cells (MNR4SCell)" project focuses on the staff exchange between the 8 world recognised institutions of EU and China, and the share of knowledge and ideas, and further the development of the leading edge technologies for the design, modelling, and control of micro/nano robotics and their applications in single cancer cell measurement, characterisation, manipulation, and surgery.

The ultimate goal of MNR4SCell is to establish long-term international and multidisciplinary research collaboration between Europe and China in the challenging field of micro/nano robotics for single cancer cells in the characterisation, diagnosis and targeted therapy.

Main outcomes of this project:

The synergistic approach and knowledge established by MNR4SCell will serve as the building blocks of the micro/nano robotics and biomedical applications, and thus keep the consortium's leading position in the world for potential major scientific and technological breakthroughs in nanotechnology and cancer therapy.

Consortium: University of Warwick, UK (project coordinator); The University of Nottingham, UK; Carl Von Ossietzky Universitaet Oldenburg, Germany; Eidgenoessische Technische Hochschule Zuerich, Switzerland; Aarhus Universitet, Denmark; University of Bedfordshire, UK; Institute of Mechanics, Bulgarian Academy of Sciences, Bulgaria; Tianjin University, China; Changchun University of Science And Technology, China; Harbin Institute of Technology, China; Zhejiang University, China; South China University of Technology, China

5. FabSurfWAR

The project “Design and Fabrication of Functional Surfaces with Controllable Wettability, Adhesion and Reflectivity (FabSurfWAR)” is H2020-MSCA-RISE-2014, focusing on the staff exchange between the partners of EU and Asia, and the development of key enabling techniques of designing and generating micro/nano surface topology with better control of bacterial growth, adhesion, friction and other tribological properties for potential applications from surgical tools, biomedical devices, to turbine blades and agricultural machines. It meets the objectives and requirements of the Marie Skłodowska-Curie Actions: Research and Innovation Staff Exchange (RISE), by establishing multiple bridges between European and Asian institutions. The ultimate goal of FabSurfWar is to set up a long-term international and inter-sector collaboration consortium through research and innovation staff exchanges between nine world-recognised institutions in the cutting-edge research area of micro/nano surface engineering with promising applications in scientific and engineering sectors.

Main outcomes of this project:

- Development of functional surface modelling and characterisation techniques
- Establishment of the correlation between the surface topography and the surface functions.
- Development of micro/nano-fabrication techniques for functional surfaces.
- Validation of the developed FabSurfWAR technologies.

Consortium: University of Warwick, UK (project coordinator); The University of Birmingham, UK; Karlsruher Institut fuer Technologie, Germany; Carl Von Ossietzky Universitaet Oldenburg, Germany; TTY-säätiö, Finland; Tampereen Korkeakoulusaatio Sr, Finland; Asociacion Centro Tecnologico CEIT-IK4, Spain; Tianjin University, China; Changchun University of Science and Technology, China; Jilin University, China; University Malaysia Pahang, Malaysia.

6. Ageing with elegans

Ageing with elegans is a project funded by the EC under the H2020 Research and innovation programme. In this project thirteen research academic teams and four companies from thirteen EU work alongside companies from Switzerland, USA and China.

The project aims to develop evidence-based prevention, diagnostic and therapeutic strategies by validating *C. elegans* as a health model in order to better understand which factors are important for healthy ageing.

Main outcomes of this project:

- Develop concepts and methods for using *C. elegans* as a healthspan model;
- Find new extracts, natural products or natural product inspired synthetic compounds improving the health span of humans;
- Use healthspan model for an initial assessment of preventive and therapeutic measures for humans.

Consortium: Katholieke Universiteit Leuven, Belgium (project coordinator); Terveystieteiden tutkimuskeskus, Finland; University of Tartu, Estonia; Karolinska Institutet, Sweden; Cartagenia N.V., Belgium; Universitätsmedizin Rostock, Germany; Abiomics Europe Ltd., Hungary; Biopolis S.L., Spain; AnalytiCon Discovery GmbH, Germany; Istituto Superiore di Sanità, Rome, Italy; Eidgenössische Technische Hochschule Zürich, Switzerland; Aarhus University, Denmark; University Pennsylvania, USA; Ghent University, Belgium; Humboldt-Universität zu Berlin, Germany; Imperial College London, UK; Tsinghua University, China.

7. UROSENSE

UroSense is a focussed research programme to generate new concepts from knowledge creation to knowledge transfer between innovative academic and dedicated industry partners utilising a systematic intersectoral secondment programme.

Main outcomes of this project:

Utilise these biomarkers in a non-invasive urine test to monitor kidney function and diabetes progression. Urinary exosomes (nanometer-sized vesicles) reflect the proteome of all the epithelial cells lining the urinary pathway and the drainage system. Developed and optimised robust isolation protocols of exosomes from urine and techniques for sub-fractionating vesicles. Collectively the results helped determine the cell-specific consequences of diabetes, unveiling new molecular networks involved and novel proteins of diagnostic importance.

Consortium: Dublin City University, Ireland (Project Coordinator); Helsingin Yliopisto, Finland ; Gems Pet Systems Ab, Sweden ; Tethis Spa, Italy; Guangzhou Konkon Bioscience Co Ltd, China; Luxembourg Institute Of Health , Luxembourg

8. BBDiag

Alzheimer's disease (AD) affects more than 7 million people in Europe and this figure is expected to double every 20 years. Despite intensive efforts, no disease-modifying treatments or preventive strategies are available.

The main challenges in developing the required diagnostics are identification of AD biomarkers and development of their detection techniques. The complex and interdisciplinary nature of the research underlines the need for innovative training of a new generation of researchers in the field. BBDiag responds to such a need and establishes a much-needed ETN for blood based early-AD diagnostics to address these challenges. It brings together leading academic and industrial experts from five major consortia in Europe and uses their synergies to build a triple-i research & training platform with the required multidisciplinary expertise and cutting-edge technologies. Main outcomes of this project

- Establish a much-needed ETN for blood based early-AD diagnostics to address these challenge
- Support improved care provision and development of disease-modifying treatments and preventive strategies for AD patients
- Deliver its first generation of 13 highly-skilled, creative and entrepreneurial Fellows, setting them on a path to successful careers in academia

Consortium: University of Plymouth, UK (Project Coordinator); Danmarks Tekniske Universitet ,Denmark; Nordic Bioscience A/S, Denmark ; Nordic Bioscience Compound Development A/S, Denmark ; Istituto Di Ricerche Farmacologiche Mario Negri, Italy ; Prognomics Ltd, UK ; Swansea University, UK ; Universita Degli Studi Di Roma La Sapienza, Italy ; Centro De Investigacion Biomedica En Red Enfermedades Neurodegenerativas, Spain ; Universitatsmedizin Rostock, Germany ; Advanced Medical Projects Sociedad Limitada ,Spain ; Hunan University, China ; China Capital Medical University, China ; Engage - Key Technology Ventures Ag, Germany ; Re:Cognition Health Ltd.,UK.

9. HealthyLivestock

HealthyLivestock is a programme, that combine efforts from 5 Chinese and 8 EU academic partners and aims to reduce antimicrobial (AM) use by the pig and broiler industries in China and Europe, and

consequent residues in meat and the environment in order to improve the animal health and welfare as consequently its quality without compromising productivity.

This project in three different phases, phase one, combining effort from the Chinese and European partners, include novel scientific approaches in four interlinked strategies to reduce AM need.

- Biosecurity
- Resilience
- Rapid detection
- Precision medication

Phase two, validate the technical innovations by establishing their societal acceptability and economic viability. Phase three, the project's industrial partners dedicate their network and expertise to knowledge exchange.

Main outcomes of this project:

- Validate the technical innovations by establishing their societal acceptability and economic viability.
- Assess the relationships between the Health & Welfare plans, the level of pathogens on the farm and AM residues in product and manure
- Support Chinese and EU policy making through CAAS and its links with International Veterinary Collaboration for China, and through the forthcoming EU Animal Welfare Platform and Network of Welfare Reference Centres.

Consortium: Stichting Wageningen Research (Project Coordinator), Wageningen University, Centro Ricerche Produzioni Animali - C.R.P.A. S.P.A., Friedrich Loeffler Institut - Bundesforschungsinstitut Fuer Tiergesundheit, Federation Of Veterinarians Of Europe Aisbl, Foodplus Gmbh, Ifip-Institut Du Porc Association, Institut National De La Recherche Agronomique, Panstwowy Instytut Weterynaryjny - Panstwowy Instytut Badawczy, University Of Newcastle Upon Tyne, Vitatrace Nutrition Ltd, Zoetis Belgium Sa, Institute Of Quality Standards & Testing Technology For Agro-Products(Iqstap) Chinese Academy Of Agricultural Sciences (Caas), China Association For The Promotionof International Agricultural Cooperation, Chuying Agro-Pastoral Group Co Ltd, Beijing Dabeinong Technology Groupco. Ltd, Institute Of Animal Science (Ias), Chinese Academy Of Agricultural Sciences (Caas), Lanzhou Institute Of Husbandry And Pharmaceutical Sciences Of Caas, Nanjing Agricultural University, Research Center For Rural Economy, Ministry Of Agriculture, Shangdong New Hope Liuhe Llc, Produkt + Markt Gesellschaft Fur Marktforschung Und Marketingberatungmbh & Co. Kg, Zoetis Enterprise Management (Shanghai) Co, Ltd

10. ERICENA (European Research Innovation Centre of Excellence in China)

ERICENA is a 2 4 years initiative that results of the partnership of 8 European and 5 Chinese partners, proposes to set up a Centre and its networks in China to promote European STI interests in China, creating synergies with existing STI structures. ERICENA will connect and support European researchers, entrepreneurs and other STI stakeholders, while providing and facilitating provision of STI services (e.g. networking, advice and support, training, among others) to private and public clients.

ERICENA will effectively contribute to improve cooperation between European STI organisations and researchers and their Chinese counterparts, strengthen the presence of European STI excellence in the Chinese market, maximise the impact of European STI actors in China, improve the framework conditions for EU-China cooperation, and expand the impact of results from existing European STI projects and initiatives in China.

ENRICH in China is a network-based centre that supports and connects European and Chinese research, innovation and businesses actors. ENRICH has organised the healthcare innovation matchmaking tour from April 8th to 13th in the cities of Beijing and Wuxi. The tour enabled participants to establish connections with leading healthcare organisations, to visit leading Chinese healthcare Science Parks and R&D organisations and to engage in networking and B2B sessions.

Main outcomes of this project

- Support in re-structuring the R&D team in China and develop a new R&D strategy with focus on new, innovative products for the Chinese market
- Support identification and application for RDI funding opportunities
- Establish the soft-landing zones to provide services for STI organisations
- Organise webinars and training courses on the topic of STI landscape and EU-China funding mechanism
- Organise missions, conferences, roadshows and matchmaking to interact with key Chinese STI players to foster research, innovation and business collaborative project
- Provide the European and Chinese S&T RDI communities relevant and time sensitive news

Consortium: Sociedade Portuguesa de Inovação - Consultadoria Empresarial e Fomento da Inovacao S.A., Portugal (project coordinator); European Business and Innovation Centre Network AISBL, Belgium; Oesterreichische Forschungsfoerderungsgesellschaft Mbh, Austria; Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.V., Germany; Innovasjon Norge, Norway; Foundation for Research And Technology Hellas, Greece; Steinbeis Innovation GgmbH, Germany; Eurelations Ag, Switzerland; China Science and Technology Exchange Center, China; EU Project Innovation Centre (Chengdu), China; Torch High Technology Industry Development Center, China; Tsinghua University, China; The University of Nottingham Ningbo, China; Steinbeis Zi GmbH, Germany.

3.5 Summary

The funding schemes available across the EU Member States reflect the needs and priorities of each country. The total funds available, the eligibility criteria and what is actually funded varies between the EU MS. However, it is possible to conclude that the majority of the programmes have eligibility criteria which focus on nationality, type of stakeholder (researcher, scientist, PhD student) and in some cases even age. Additionally, the elements which are funded also differ between programmes. In most cases, the funding is available to cover travel and accommodation expenses, especially the ones linked with researchers exchange and other types of mobility, expenses of infrastructure use, expenses of project development, among others. The duration of the funding is also variable, but on average it lasts two to three years.

In China, the eligibility criteria also include certain Key Performance Indicators which have to be achieved and proven to the funding agency, in order to successfully apply for funding. Looking at the gathered information, there are no specific elements within the programmes regarding funding of specific actions. It is understood that the funding applies to all aspects of the application, within the available budget.

Mapping of the relevant health-related programmes from EU and China, EU has been putting much effort on enhancing the public health that includes health, environment & lifestyle, mental health, foresight, health systems and services. From MSs, life science, clinical medicine, and health sciences and are considered the most important health research fields. For instance, the research of life science is

part of the key areas for the majority of national funding, covering physiology, neurobiology, cell and developmental biology, ecology and evolutionary biology, microbiology, plant biology, behavioural biology and nano or molecular biology. Research in these fields contributes to solving major societal challenges such as the sustainable use of natural resources and issues.

An important part of this mapping was the identification of key stakeholders and actors, across the EU MS and China, which play a crucial role in the health ecosystem and respective international cooperation between the EU and China. As described in section 3.3, different types of organisations such as universities, ministries and government bodies, research centres, funding agencies, medical societies and associations were identified, as well as the respective points of contact. These are institutions and representatives that have highly contributed to the promotion of initiatives between the EU and China regarding health, and constantly foster international collaboration with the aim of improving the research and developments in the field.

The last section highlighted under this section identifies and describes a set of existing projects and joint-initiatives between the EU and China on health research – a total of 10 projects / initiatives were identified in section 3.4. These collaborative projects showed a set of best practices for cooperation between EU and Chinese partners. The projects were health-related and included the participation of various types of partners, and were mostly coordinated by universities and research institutes. The main outcomes of each project were also included.

4. Latest developments in funding programmes

This section provides the main updates regarding the latest funding programmes in the EU and China, by focusing on Horizon Europe and the co-funding mechanism in China.

4.1 EU funding programmes – Horizon Europe

This section describes some of the main updates concerning the latest research and innovation funding programme of the EC: Horizon Europe. This programme is provided under the Directorate-General for Research and Innovation (DG RTD) and is responsible for defining and implementing the European Research and Innovation policy aiming to achieve the goals of the Europe 2020 strategy. Under the new research and innovation programme, Horizon Europe, this section will particularly focus on its main pillars, the funding for researchers and the funding application process.

Horizon Europe will build on the achievements and success of the current research and innovation programme – H2020. It will continue to drive scientific excellence through the European Research Council (ERC) and the Marie Skłodowska-Curie fellowships and exchanges, and will benefit from the scientific advice, technical support and dedicated research of the Joint Research Centre (JRC), the Commission's science and knowledge service.

Horizon Europe is the next EU Research & Innovation Programme (2021 – 2027). It is the EC's proposal for 100 billion EUR that will be available for the next research and innovation funding programme. It aims to strengthen the EU's scientific and technological bases, to boost Europe's innovation capacity, competitiveness and jobs and to deliver on citizens' priorities and sustain our socioeconomic model and values³.

³ Commission proposal for THE NEXT EU RESEARCH & INNOVATION PROGRAMME (2021 – 2027) Horizon Europe https://ec.europa.eu/info/sites/info/files/horizon-europe-presentation_2018_en.pdf

Horizon Europe will be built under three pillars:

- Pillar 1: Open Science
- Pillar 2: Global Challenges and Industrial Competitiveness
- Pillar 3: Open Innovation

Thus, it is relevant to highlight Pillar 2: Global Challenges and Industrial Competitiveness, which aims to boost key technologies and solutions underpinning EU policies and the UN Sustainable Development Goals (SDG). This pillar will focus on several topics (referred to as “clusters”) which include health, inclusive and secure Societies, Digital and Industry, Digital and Industry and Digital and Industry. The health cluster will have a total budget of 7,7 billion EUR and will build linkages between: discovery, clinical, epidemiological, environmental and socio-economic research; academia – industry – healthcare providers – patients; expertise within the EU and beyond. Moreover, the six main areas of intervention under this cluster are: health throughout the life course, environmental and social health determinants, non-communicable and rare diseases, infectious diseases, tools, technologies and digital solutions for health and care and health care systems. The specific objectives of the programmes are:

- Support the creation and diffusion of high-quality knowledge
- Strengthen the impact of R&I in supporting EU policies
- Foster all forms of innovation and strengthen market deployment

The added-value through Horizon Europe is described below:

- Trans-national collaboration, exchange and networks
- Critical mass to address global challenges
- Competitive funding promoting excellence
- Visibility for leading research and innovation
- Transnational mobility
- Creating new market opportunities
- Strengthened European R&I landscape
- Attracting the best talents

By introducing new features such as the European Innovation Council (EIC), which is already running in a pilot phase, it will work as a one-stop shop to bring disruptive and breakthrough innovations from lab to market application, and help start-ups and SMEs scale up their ideas. It will provide direct support to innovators through two main funding instruments, one for early stages and the other for development and market deployment. It will complement the European Institute of Innovation and Technology (EIT).

4.2 China funding programmes – EU-China Co-funding mechanism

Under this section, the project team presents the latest developments on research and innovation funding programmes in China, with a specific focus on the EU-China co-funding programme through its latest call for application announced by MoST in April 2019. Within this context, it is relevant to describe the most recent changes in the funding programmes’ structure in China. This is built on three levels:

- National level – There mainly exist five funding pillars for STI.
- Local level – From provincial to district levels (e.g. Minhang district and some national high-tech zones);
- Others – Other programmes not included within the five national main pillars. Mainly Bilateral/multilateral programmes

In December 2014, the Chinese government announced a “Notice on Deepening on Reform of the Management of Central Finance S&T Projects” on the national funding and programmes which outlined an ambitious reform plan that would reshape the structure of the entire Chinese national funding system for STI. The first major change was made on the overall institutional and management platform of the central funding system, which is now structured as detailed in Figure 1.



Figure 1 - Inter-Ministerial Joint Council structure⁴

Figure 1 describes how the central funding system is structured under the Inter-Ministerial Joint Council. This structure was introduced to coordinate interagency priorities and budgeting, and to prevent overlaps across and within ministries. Its current structure is the result of a major reform issued by the State Council in December 2014.

After the re-organisation of the national STI funding programmes, five major funding pillars are considered. By merging and reducing the total number of programmes, inefficiencies and overlaps would consequentially be reduced, leading to an increased and more channelled focus on key strategic and priority areas. Figure 2 shows the main funding pillars for STI under the Chinese government.

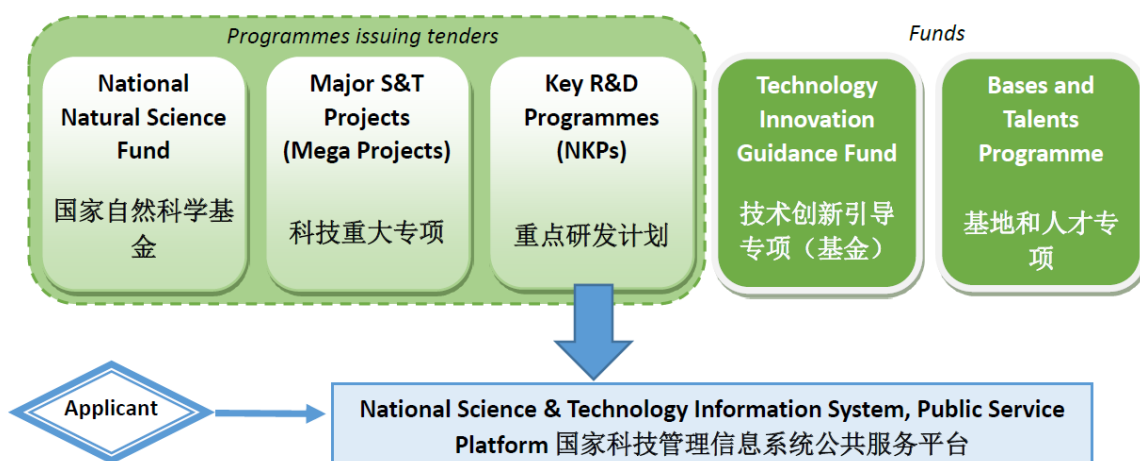


Figure 2 - Major STI Funding Pillars under the Chinese Government⁵

⁴ China Science and Technology Exchange Center (CSTEC)

⁵ China Science and Technology Exchange Center (CSTEC)

In April 2019, the Chinese MoST published the first call for proposals for 2019 under the EU-China Co-funding Mechanism for Research and Innovation (CFM), as part of the "Key Project on Intergovernmental International Science, Technology and Innovation (STI) Cooperation/STI Cooperation with Hong Kong, Macao and Taiwan" of the China's National Key R&D Programme (NKP)⁶. The programme is formulated to address the key issues and challenges such as agriculture, energy and resources, environment, and health among the intergovernmental organisations, dedicated to cooperating with developed and developing countries to strengthen the STI cooperation and to facilitate the multilateral scientific and technological cooperation. The 2019 programme is based on bilateral S&T agreements signed in 2018. The CFM is a joint initiative launched by the EU and the Chinese Government to support joint research and innovation projects between European and Chinese universities, research institutions and enterprises in strategic areas of common interest under the framework of H2020. In terms of the scale of the funding mechanism, the EU-China Co-Funding Mechanism will mobilise over 500 million EUR from the EU side, and 1 billion RMB from the Chinese side during the period from 2016 to 2020⁷.

Specifically, from the Chinese side, up to 200 million RMB are available annually by MoST for China-based entities that participate in joint projects with European partners under H2020. The EC has committed to funding about 100 million EUR per year for funding Europe-based entities in joint projects under H2020 with Chinese participants.

The CFM targets two main categories of topics under the three EU-China STI flagship initiatives with MoST, and topics belonging to the nine priority areas of common interest eligible for co-funding. Among these, one of the nine priority areas concern the advanced, effective, safe and convenient health technologies, covering biopharmaceuticals, precision medicine, high-performance medical devices, prevention of major infectious diseases, antibiotic resistance, regenerative medicine, big data in medicine, medical robot, aging services technologies and Chinese medicine.

Application process

- Europe-based entities can only apply from the European side through the Horizon 2020 Participant Portal.
- China-based entities can only apply from the Chinese side through specific calls published on MoST website (see section below). A key requirement is that China-based applicants should have already submitted a joint proposal with their European partners under the EU's H2020 Work Programme 2018-2020.

Targeted areas

Topics under the three EU-China STI Flagship initiatives with MoST:

- Food, Agriculture, and Biotechnologies;
- Sustainable Urbanisation; and
- Surface Transports

Topics belonging to the nine priority areas of common interest eligible for co-funding:

- New generation information networks;
- Intelligent and green manufacturing;

⁶ http://most.gov.cn/mostinfo/xinxifenlei/fgzc/gfxwj/gfxwj2019/201904/t20190423_146203.htm

⁷ <http://chinainnovationfunding.eu/eu-china-co-funding/>

- Safe, clean and efficient energy;
- Advanced, effective, safe and convenient health technologies;
- Marine equipment;
- Space;
- New materials;
- Large research infrastructures; and
- Public security.

Publication of new calls

China side:

MoST will regularly publish EU-China Co-Funding Mechanism calls during the 2018-2020 period. Annual calls could also be published under more different batches. Exact timing, terms and conditions however are not determined and may vary from time to time. According to the latest call for application, there will be around 20 calls published, covering nine priority areas and flagship cooperation programme projects on food, agriculture and biotechnology.

EU side:

Calls are published on the H2020 Participant Portal, with the most recent Work Programme for 2018-2020 published on 27th of October 2017.

5. Conclusions

In this report, a detailed mapping of the main funding agencies, schemes, programmes and actors regarding health R&D actions in Europe and China was provided. It is expected that the report will serve as an important tool for facilitating and promoting international research and innovation cooperation actions between the EU and China. Furthermore, it intends to enhance bi-lateral and multi-lateral cooperation between the EU and China on health research and innovation actors and enhance cooperation in specific topics. Within this context, an extensive mapping exercise was provided by the SENET project team, detailing a total of 76 funding agencies, 45 funding schemes and programmes, 22 actors and 10 EU-China initiatives and projects.

According to the mapping provided, the majority of the funding agencies identified are government or public bodies, research institutes and foundations. These organisations are mainly responsible for providing funding opportunities and supporting STI projects, namely with an international focus. The report also identified the cooperation agreements that each agency has established with its Chinese/European counterpart, serving as an important criterion for the mapping assessment. In terms of the funding schemes and programmes, the mapping developed showed that many of the programmes include a selection criterion that focuses mainly on nationality and type of stakeholder. This is mainly the case of the EU MS funding schemes and programmes as analysed under Section 3.1. The duration of the funding also varies according to the specific opportunity, but on average it lasts from two to three years. In China, the selection criteria often include certain Key Performance Indicators, being focused on very general and broad topics.

Furthermore, the analysis developed on the Horizon Europe and co-funding mechanism programmes describes a potential opportunity for improving EU-China health cooperation in the next years.

In particular, it identifies several areas of potential interest between regions, mainly through topics of mutual interest. In addition, the MoST seems committed to support the participation of Chinese organisations in EC funded projects (namely on H2020 and Horizon Europe), which facilitates future joint research and innovation activities between regions. Thus, it is expected that the increased coordination between both regions will lead to an increase in number of projects and initiatives targeting research and innovation and specifically the health topic – which has the highest Horizon Europe budget within Pillar 2.

Both the EU and China have an extensive range of STI health collaboration support schemes for the development of innovative projects, with a particular focus on international cooperation. This large range of opportunities is being leveraged by several actors within the R&I ecosystem, representing a key factor for enhancing cooperation between the EU and China. Thus, it is expected that new joint programmes on R&I in health will be established in the next years (taking into account the next funding period for the Horizon Europe programme).

6. References

1. Commission proposal for the next EU Research and Innovation Programme (2021 – 2027) Horizon Europe https://ec.europa.eu/info/sites/info/files/horizon-europe-presentation_2018_en.pdf
2. NSFC, Department of Medical Sciences <http://www.nsf.gov.cn/nsfc/cen/xmzn/2019xmzn/01/08yx/index.html>
3. NSFC, International (Regional) Cooperation Introduction http://www.nsf.gov.cn/english/site_1/international/D1/2017/12-18/17.html
4. China Science and Technology Exchange Center (CSTEC)
5. Ministry of Science and Technology (MoST), China's National Key R&D Programme http://most.gov.cn/mostinfo/xinxifenlei/fgzc/gfxwj/gfxwj2019/201904/t20190423_146203.htm
6. EU-China Co-Funding Mechanism (CFM) <http://chinainnovationfunding.eu/eu-china-co-funding/>
7. Directorate-General for Research and Innovation, European Commission (EC) https://ec.europa.eu/info/departments/research-and-innovation_en



7. Annex – Mapping of funding agencies (EU and China)

Table 124 - Mapping of funding agencies (EU and China)

	Health Focus			Joint-Agreements (EU-China)	Promotion of International Cooperation	Provision of STI funding
	Low	Med.	High			
Funding Agencies						
EU						
European Commission - DG RTD			X	X	X	X
European Commission - DG SANTE			X	X	X	X
European Commission - Chafea			X	X	X	X
European Research Council (ERC)			X	X	X	X
Austrian Science Fund (FWF) - Austria		X		X	X	X
Austrian Institute of Technology (AIT) - Austria			X		X	X
Research Foundation Flanders (FWO) - Belgium		X		X	X	X
Fund for Scientific Research (FNRS) - Belgium			X		X	X
Belgian Science Policy Office (BELSPO) - Belgium		X		X	X	X
National Science Fund of Bulgaria (BNSF) - Bulgaria		X		X	X	X
Croatian Science Foundation - Croatia			X		X	X
Research Promotion Foundation (RPF) - Cyprus		X			X	X
Technology Agency of the Czech Republic - Czech Republic	X				X	X
The Czech Academy of Sciences (CzAS) - Czech Republic	X			X	X	X
Ministry of Higher Education and Science - Denmark			X		X	X
Innovation Fund Denmark (IFD) - Denmark	X			X	X	X
The Estonian Research Council (ETAg) - Estonia	X			X	X	X
The French National Research Agency (ANR) - France			X		X	X
Centre national de la recherche scientifique (CNRS) - France		X			X	X
Institut national de la Recherche medicale (INSERM) - France			X		X	X
Institut Pasteur - France			X	X	X	X
Association pour la Recherche sur le Cancer (ARC) - France			X		X	X
Fondation Maladies Rares- France			X		X	X



French Muscular Dystrophy Association (AFM-Téléthon) - France			x		x	x
Academy of Finland (AKA) - Finland			x		x	x
Finnish Funding Agency for Technology and Innovation (TEKES) - Finland			x		x	x
Federal Ministry of Education and Research (BMBF) - Germany			x		x	x
Deutsche Forschungsgemeinschaft (DFG) - Germany	x			x	x	x
German Academic Exchange Service (DAAD) - Germany	x			x	x	x
Alexander von Humboldt Foundation - Germany	x			x	x	x
German Cancer Aid - Germany			x		x	x
Foundation for Research and Technology – Hellas (FORTH) - Greece			x		x	x
Hellenic Centre for Disease Control and Prevention (EODY) - Greece			x		x	x
National Research, Development and Innovation office (NRDI) - Hungary			x		x	x
Science Foundation Ireland - Ireland			x		x	x
Health Research Board - Ireland			x		x	x
National Research Council (CNR) - Italy			x		x	x
Ministry of Education, Universities and Research (MIUR) - Italy	x				x	x
The Telethon Foundation - Italy			x		x	x
Latvian Council of Science (LCS) - Latvia		x			x	x
Research Council of Lithuania (LMT) - Lithuania			x		x	x
Agency for Science, Innovation and Technology (MITA) - Lithuania		x			x	x
Luxembourg National Research Funding (FNR) - Luxembourg		x			x	x
Luxinnovation - Luxembourg			x		x	x
Malta Council for Science and Technology (MCST) - Malta			x		x	x
Netherlands Organization for Scientific Research (NWO) - Netherlands			x		x	x
Netherlands Organisation for Health Research and Development (ZonMw)	x				x	x
Netherlands Lung Foundation - Netherlands			x		x	x
National Science Centre (NCN) - Poland	x			x	x	x
Foundation for Polish Science (FNP) - Poland			x	x	x	x
Polpharma Scientific Foundation - Poland		x			x	x



Fundação para a Ciência e a Tecnologia (FCT) - Portugal			x	x	x	x
Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) - Romania	x				x	x
National Research Council (CNCS) - Romania		x			x	x
Slovak Academic Information Agency - Slovakia	x				x	x
Slovak Research and Development Agency (SRDA) - Slovakia	x			x	x	x
Slovenian Research Agency (ARRS) - Slovenia	x			x	x	x
Ministry for Science, Innovation and Universities - Spain			x		x	x
Centre for the Development of Industrial Technology (CDTI) - Spain		x		x	x	x
Swedish Agency for Innovation Systems (VINNOVA) - Sweden			x		x	x
Swedish Research Council - Sweden			x		x	x
Swedish Research Council for Health, Working Life and Welfare (FORTE) - Sweden		x			x	x
Swedish Foundation for Strategic Research (SSF) - Sweden		x			x	x
Swedish Foundation for International Cooperation in Research and Higher Education (STINT) - Sweden	x				x	x
UK Research and Innovation - UK			x		x	x
Biotechnology and Biological Science Research Council (BBSRC) - UK			x		x	x
Wellcome Trust			x		x	x
CHINA						
Natural Science Foundation of China			x		x	x
Ministry of Science and Technology (MoST)			x		x	x
Chinese Academy of Medical Sciences (CAMS)			x		x	x
Beijing Municipal Natural Science Fund Committee		x			x	x
Shanghai Science and Technology Committee (STCSM)		x			x	x
Shanghai Science & Technology Development Foundation (SSTDF)		x			x	x
Zhejiang Provincial Department of Science and Technology		x			x	x
Guangdong Provincial Department of Science and Technology		x			x	x
Jiangsu Provincial Department of Science and Technology		x			x	x

