Forty projects funded after evaluation of the second group of Research Fellowship for International Young Scientists in 2010

Evaluation of the second group of Research Fellowship for International Young Scientists in 2010 has completed. Total of 40 applicants received funding. The following is the list of projects.

	Applicant	Home institution
1	Mattheus B. N. Kouwenhoven	Peking University
2	Oleg Evnin	Institute of Theoretical Physics, CAS
3	Hiroshi ODA	Shanghai Astronomical Observatory, CAS
4	Bijaya Kumar Sahoo	Wuhan Institute of Physics and Mathematics, CAS
5	Harada Kumaji	Shanghai Astronomical Observatory, CAS
6	Isabella Guido	Peking University
7	Bogdan Andrei Bernevig	Institute of Physics, CAS
8	Pascal Jahan Elahi	Shanghai Astronomical Observatory, CAS
9	Pierre Richard	Institute of Physics, CAS
10	George Hobbe	National Time Service Center, CAS
11	Jacob David Wickham	Institute of Chemistry, CAS
12	Robert M. Rioux	Tianjin University
13	John S. Fossey	East China University of Science and Technology
14	Jonathan W. Martin	Nankai University
15	Jonathan Eugene Halpert	Institute of Process Engineering, CAS
16	Inge Huybrechts	Xi'an Jiaotong University
17	Wael M. Abdel-Mageed	Institute of Microbiology, CAS
18	Raül Ramos	Institute of Zoology, CAS
19	Lukasz Kurgan	Nankai University
20	Krishna Murthy Boini	Huazhong University of Science and Technology
21	Jacques-Philippe Colletie	Shanghai Institute of Materia Medica, CAS
22	Songyot Nakariyakul	Shanghai Institutes for Biological Sciences, CAS
23	Vicent Carbonnel	Institute of Oceanology, CAS
24	Andreas Nuchter	Wuhan University
25	O'CONNOR Jingmai Kathleen	Institute of Vertebrate Paleontology and Paleoanthropology, CAS
26	Naemura Kosuke	Institute of Geology and Geophysics, CAS
27	I. I. Vogiatzis	Peking University
28	Peter Mooney	Peking University
29	Stefan Fischer	Changchun Institute of Applied Chemistry, CAS
30	Stéphanie OGNIER	Donghua University

(Continued)

	Applicant	Home institution
31	Cesare Franchini	Institute of Metal Research, CAS
32	Uchechukwu Chris Wejinya	Shenyang Institute of Automation, CAS
33	Brian Otis	Tianjin University
34	Clive Roberts	Beijing Jiaotong University
35	Iwashita Kentaro	Southeast University
36	Mehemmed Emre Celebi	University of Electronic Science and Technology of China
37	Christoph Csallner	Wuhan University
38	Ting See Ho	University of Electronic Science and Technology of China
39	Periklis Papakonstantinou	Tsinghua University
40	RAJIV KUMAR JHA	Xi'an Jiaotong University

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Notification of Final Approval of 2010 Cohort of NSFC-RFBR Bilateral Workshops

A total of 23 applications for the 2010 cohort of NSFC-RFBR bilateral workshops to be held in 2011 were accepted by NSFC during the defined time window for application. After respective review and mutual recommendation by NSFC and RFBR (Russian Foundation for Basic Research), the following 4 applications were jointly approved for funding.

#	Chinese Applicant / Institution	Workshop Title	Russian Applicant / Institution
1	Wang Lili Ningbo University	Dynamic behaviour of structure and functional materials	Nikita Morozov Saint-Petersburg State University
2	Chen Lin Institute of Biophysics, CAS	Chinese-Russian Workshop on Neuroscience	Konstantin Anokhin P. K. Anokhin Institute of Normal Physiology, RAS
3	Liu Xiaofeng Shandong University of Science and Technology	Physiological basis of magnetic navigation in birds and other animals: combining biophysics and behavioural studies	Nikita Chernetsov Zoological Institute, RAS
4	Yu Jinzhong Institute of Semiconductors, Chinese Academy of Sciences	The 6-th China-Russia Joint Workshop on Advanced Semiconductor Materials and Devices	Fedor Kuznetsov Nikolaev Institute of Inorganic Chemistry, SB RAS

Approved NSFC-JSPS Joint Projects and Joint Seminars for FY2011

Based on the MOU between NSFC and JSPS, the following 10 joint projects and 4 joint seminars are selected for support. The period of joint projects is from April 2011 to December 2013.

No.	Research Field	Chinese Applicant/Institution	Japanese Applicant/Institution	Project Title
A: Joint Projects				
1	Math & Physics	Wang Wei Nanjing University	Shoji Takada Kyoto University	Hierarchic theories and computational methods for fluctuation-driven functioning of biomolecules
2	Math & Physics	Tian Rong Chinese Academy of Sciences	Seiichi Koshizuka The University of Tokyo	Scalable algorithms for petscale particle/freemesh simulation
3	Math & Physics	Chang Jin Chinese Academy of Sciences	Shoji Torii Waseda University	Dark Matter Search in Space
4	Chemistry	Xiong Rengen Southeast University	Takayoshi Nakamura Hokkaido University	The Discovery and Investigation of Compounds with Ferroelectric and High Dielectric Constant
5	Chemistry	Wang Zonghua Qingdao University	Jie Tang National Institute for Materials Science	Fabrication of micro electrochemical biosensors based on carbon nanotubes/quantum dots nanofiber for detection of protein
6	Life Sciences	Cai Wanzhi China Agricultural University	Osamu Tadauchi Kyushu University	Studies on the diversity and phylogenetic relationships of Chinese and Japanese insects by using DNA barcoding and related methods
7	Earth Sciences	Zheng Hongbo Nanjing University	Ryuji Tada The University of Tokyo	Pattern and variability of hydrological cycles in east Asia associated with East Asian monsoon during the Holocene
8	Engineering & Materials	Zhang Guojun Chinese Academy of Sciences	Yoshio Sakka National Institute for Materials Science	Texturization and Material Property Optimization of Boride Ceramics via Strong Magnetic Field Alignment
9	Information Sciences	Zeng Lijiang Tsinghua University	Wei Gao Tohoku University	3D displacement measurement within large area based on mosaic crossed grating
10	Information Sciences	Zhang Liqing Shanghai Jiao Tong University	Jianting Cao Saitama Institute of Technology	Study on Brain Computer Interface and Motor Functional Rehabilitation

(Continued)

No.	Research Field	Chinese Applicant/Institution	Japanese Applicant/Institution	Project Title
B: Joint Seminars				
11	Math & Physics	Huang Feimin Chinese Academy of Sciences	Yoshiyuki Kagei Kyushu University	Third China-Japan workshop on Mathematical Topics from Fluid Mechanics
12	Chemistry	Zhao Jianwei Nanjing University	Manabu Kiguchi Tokyo Institute of Technology	The current and future molecular electronics
13	Life Sciences	Liu Dingzhen Beijing Normal University	Sonoko Ogawa University of Tsukuba	Sino-Japan Symposium: Frontiers in Behavior and its Neuro-mechanisms
14	Information Sciences	Zhou Huarong Chinese Academy of Sciences	Katsuhisa Horimoto National Institute of Advanced Industrial Science and Technology	The 5th International Conference on Computational Systems Biology

Notification of Final Approval of 2010 Cohort of NSFC-RFBR Joint Projects

A total of 122 applications for the 2010 cohort of NSFC-RFBR joint projects to be implemented during 2011 and 2012 were accepted by NSFC during the defined time window for application. After respective review and mutual recommendation by NSFC and RFBR (Russian Foundation for Basic Research), the following 50 applications were jointly approved for funding.

#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
1	Chen Feng Shandong University	The fabrication and characterization of photorefractive photonic waveguides and superlattices in optical crystals	Vladimir Shandarov Tomsk State University of Control System and Radioelectronics
2	Chen Huie Jilin University	Theoretical and methodological study and property control of artificial fill	Nikolseva Svetlana K. Moscow State University
3	Chen Wanzhi Zhejiang University	The organometallic chemistry of multidentate N-heterocyclic carbene complexes	Avthandil Koridze A. N. Nesmeyanov Institute of Organoelement Compounds, RAS
4	Cui Dongmei Chang Chun Institute of Applied Chemistry, CAS	Development of new rare-earth catalysts for controllable diene polymerization and preparation of high performance rubbers	Alexander Trifonov Institute of Organometallic Chemistry, RAS
5	Deng Haixiao Shanghai Institute of Applied Physics, CAS	Investigation of the coherent Cherenkov radiation from targets for the purpose of tuneable terahertz radiation sources and non-invasive beam diagnostics	Gennady Naumenko Nuclear physics institute at Tamsk polytechnic university
6	Duan Changkui Chongqing University of Post and Telecommunications	F(-)d transition of lanthanide ions in various nano-sized materials and the effects of coating or uniform embedding into dielectric media	Yurii Orlovskii Prokhorov General Physics Institute Russian Academy of Sciences
7	Fan Yubo Beihang University	Research and development of mathematical models of the cardiovascular and respiratory systems and their applications for space research	Alexander Dyachenko Institute of Biomedical Problems of RAS
8	Hu Lili Shanghai Institute of Optics and Fine Mechanics, CAS	The conversions and interactions between the different optically active centers in bismuth-doped glass hosts	Boris Il'ich Denker A. M. Prokhorov General Physics Institute (GPI) of Russian Academy of Sciences (RAS)
9	Huang Yongjiang Harbin Institute of Technology	Development of high-performance Ti2A1Nb-based intermetallics	Marat R. Shagiev Institute for Metals Superplasticity Problems, RAS
10	Ji Haisheng Purple Mountain Observatory, CAS	Spatial and Temporal development of Geo-effective Solar Flares	Victor Melnikov Radiophysical Research Institute, Nizhny Novgorod
11	Jia Chengchang University of Science and Technology Beijing	Electromagnetic and Thermal Properties of Diamond Coated Cu/ diamond Composites	Boris M. Garin Institute of Radio Engineering and Electronics, RAS

(Continued)

#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
12	Jiang Bin Nanjing University of Aeronautics and Astronautics	Comprehensive development of the algebraic and differential geometric approaches to the problem of fault diagnosis and fault tolerant control in complex engineering system with hybrid structure	Alexey Shumsky Institute for Marine Technology Problems, Far Eastern Branch of Russian Academy of Sciences
13	Jin Jianhua Sun Yat-Sen University	Eocene vegetation, palaeoecology and palaeoclimate of the transitional region between tropical and subtropical areas: evidence from the biota of the Maoming Basic, Guangdong Province, South China	Tatyana Kodrul Geological Institute of Russian Academy of Sciences
14	Lan Sheng South China Normal University	Nonlinear optical properties of Au nanorods and their applications in high-density optical storage media	Tatiana Lysak Lomonosov Moscow State University
15	Lang Lihui Beihang University	A viscoplastic model with a saturation stress for warm metal forming including damage evolution	Sergei Alexandrov Institute for Problems in Mechanics of the Russian Academy of Sciences
16	Li Fuli Qingdao Institute of Bio-energy and Bioprocess Technology, CAS	Investigation of biochemical factors providing an enzymatic activity of butyryl-CoA dehydrogenase from butanol-synthesizing Clostridia	Vladimir Debabov State Institute of Genetics and Selection of Industrial Microorganisms, Russia
17	Li Guangyu Jilin University	The role of OGDHC in the neuronal death pathways	Victoria Bunik Moscow Lomonosov State University
18	Li Huixiong Xi'an Jiaotong University	Mechanism of the conjugated heat and mass transfer in drops of complex mixtures and nanofluids with phase transition and combustion: experiments and numerical simulation	Terekhov Viktor Ivanovich Institute of Thermophysics SB RAS
19	Li Xin Beijing Institute of Technology	Modeling and study of phenomena occurring in pores during membrane separation	Eleonora Koltsova Mendeleyev's University of Chemical Technology of Russia
20	Liu Changming Institute of Geographic Sciences and Natural Resources Research, CAS	Interaction between surface water and groundwater in arid regions in Southern Russia and China: problems, methods, and comparative study	Sergey Pavlovich Pozdniakov Moscow State University, Faculty of Geology
21	Liu Jie Institute of Modern Physics, CAS	Nanometric structure and phase transformations in materials irradiated with swift heavy ions	Alexander Volkov Russian Research Center Kurchatov Institute
22	Liu Jihua The First Institute of Oceanography, SOA	Integrated chemical and stable-isotope model of the oceanic hydrothermal-sedimentary lithogenesis: implication of the ultraslow-spreading Gakkel and Southwest Indian ridges	Levitan Mikhail V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry, RAS
23	Liu Wei Tsinghua University	The physical nature of formation of nano-sized structurally-phase states and properties at electroexplosive alloying and high-energy pulse electronic treatment of the titanium surface	Victor Gromov Siberian State University of Industry
24	Liu Xingping Institute of Applied Physics and Computational Mathematics	On high-performance algorithms in computations of radioactive hydrodynamics	Lev A. Krukier Southern Federal University

(Continued)

#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
25	Liu Xiuhuan Jilin University	Surface-plasmon-enhanced photoluminescence in blue-violet region based on cubic boron nitride crystals	Tatyana Dolgova Moscow State University
26	Luan Yunxia Shanghai Institutes for Biological Sciences, CAS	Basal Hexapods of Pacific littoral of Asia	Mikhail Potapov Moscow State Pedagogical University
27	Luo Jun Huazhong University of Science and Technology	The Newtonian gravitation constant: new methods in experimental determination and theoretical studying	Vadim Milyukov Sternberg State Astronomical Institute of Moscow University
28	Meng Jihua Institute of Remote Sensing, CAS	Developing a crop yield predicting model with remote sensing derived crop parameters and its validation in North-Eastern Eurasia	Igor Savin Space Research Institute, RAS
29	Mo Yuxiang Tsinghua University	Investigation of the superexcited states of diatomic molecules relevant for the atmospheric photochemistry and astrophysics	Oleg Svyatoslavovich Vasyutinskii A. F. Ioffe Physico-Technical Institute, RAS
30	Peng Weihong Sichuan Academy of Agricultural Sciences	Resources exchange and mycelium cytology study of annulohypoxylon spp. and tremella fuciformis berk	Boris Aleksandrovic Borisov Moscow University
31	Ping Jinsong Shanghai Astronomical Observatory, CAS	Spin-orbit evolution, lunar core dynamics, selenodesy and selenographic coordinate systems of the Moon in database Chang'E-1 missions and other lunar international programs	Alexander Gusev Kazan University
32	Shen Adong Beijing Children's Hospital, Affiliated to Capital Medical University	M. tuberculosis genotype versus Human host genetics: interaction and co-adaptation	Igor Mokrousov St. Petersburg Pasteur Institute
33	Shi Jiankui Center for Space Science and Applied Research, CAS	Peculiarities of the ionospheric response to geomagnetic disturbances in the East-Asian	Geliy Zherebtsov Institute of Solar and Terrestrial Physics Siberian Branch of RAS
34	Shi Wujie Suzhou University	Groups with prescribed quantitative properties	Victor D. Mazurov Institute of Mathematics, Siberian Branch of Russian Academy of Sciences
35	Sun Quanhua Institute of Mechanics, CAS	Investigation of non-equilibrium chemically reacting flows based on continuum and kinetic approaches	Mikhail Ivanov Khristianovich Institute of Theoretical and Applied Mechanics, Siberian Branch of Russian Academy of Sciences
36	Sun Tiansong Inner Mongolia Agricultural University	Studies on morphological, physiologic and biochemical properties of pure cultures isolated from national lactic acid products and development of microbial consortia possessing high probiotic efficacy	Irena S. Khamagaeva The East-Siberian State Technological University
37	Sun Yuanming South China Agricultural University	Mechanism of the enantio-selective molecular recognition between chiral hapten and antibody: ofloxacin as model	Boris Dzantiev Institute of Biochemistry, RAS

(Continued)

#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
38	Sun Yuehua Institute of Zoology, Chinese Academy of Sciences	Comparative studies of structure of Vertebrata communities in coniferous forests of Central Siberia, Russia and Qinghai-Tibet Plateu, China	Yury Yulianovich Dgebuadze Severtsov Institute of Ecology and Evolution of the Russian Academy of Sciences
39	Wang Quan Nankai University	Elucidation of structure and genetic of Escherichia coli O-antigens as the molecular basis of the diversity of bacterial clones	Perepelov Andrei N. D. Zelinsky Institute of Organic Chemistry RAS
40	Wang Weiguo Shandong University of Technology	Grain Boundary Assemblies in Austenitic Stainless Steels Developed by Various Thermomechanical Processing and Heat Treatment	Andrey Belyakov Belgorod State University
41	Wang Yuesheng Beijing Jiaotong University	Thermoelastic Instability in Frictionally Sliding/Rotating Contact of Functionally Graded Materials	Sergey Mikhailovich Aizikovich South Federal University
42	Wang Zhanshan Tongji University	Investigation of models and development of algorithms for elaboration of optical elements for soft x-rays applications	Tikhonravov Alexander Moscow State University
43	Xie Zichu Hunan Normal University	Evaluation of Central Asia glaciation changes and its consequences Mass balance of high Asia glacier systems and their response to global warming	Kotlyakov Valdimir Institute of Geography Russian Academy of Sciences
44	Xu Xiaowen Beijing Institute of Technology	Research on time domain antenna	Sergey Leonidovich Chernyshev Bauman Moscow State University
45	Yang Deren Zhejiang University	Study of transition metal impurity properties in crystalline silicon	Eugene Yakimov Institute of Microelectronics Technology and High Purity Materials (IMT), RAS
46	Yu Jinlong Tianjin University	Development of the method and equipment of electronic special interferometry of heightened precision	Robert Veniaminovich Goldstein Institute for Problems in Mechanics of the Russian Academy of Sciences
47	Yuan Fengjie Zhejiang Academy of Agricultural Sciences	Comparative analysis of sequence polymorphism and natural variability of gene associated with phytic acid content of cultivars of Glycine max and wild soybean G. soja in south of the Far East of Russia and south of China	Dmitry Dorokhov Center "Bioengineering" of Russian Academy of Sciences
48	Zhang Qibing Institute of Botany, Chinese Academy of Sciences	Comparison of tree-ring growth in Qinghai-Tibetan Plateau and Siberia for detection of spatial linkage of environmental changes	Alexander Kirdyanov V. N. Sukachev Institute of Forest, Siberian Branch of Russian Academy of Sciences
49	Zhang Wenzhen Dalian University of Technology	Synthesis and metathesis reaction of allylic alkynotates and polymers in supercritical carbon dioxide	Alexei Removich Khokhlov Nesmeyanov Institute of Organoelement Compounds, RAS
50	Zhang Yong Tsinghua University	The Role of the Interface in Glass-ceramic Nanodielectronics	Ivan Baturin Institute of Physics and Applied Mathematics, Ural State University

Conditions of submission and selection of Chinese-Austrian joint research projects for 2011

General Remarks

Joint Research Projects are a funding instrument that enables scientists to do research in bi-national projects. A JP should only be applied for if the Chinese part and the Austrian part are closely intertwined, so that one part cannot be carried out without the other. The two parts of the research project are financed separately by the respective national funding agency. NSFC finances the costs for the Chinese part while FWF finances the costs for the Austrian part. The respective costs thus have to be applied for at NSFC or FWF. The kind of costs (personnel, material, travel, etc.) that can be applied for depends on the regulations of NSFC and FWF respectively. For applicants at FWF the *application guidelines for "stand-alone projects"* apply ("Einzelprojekte"; http://www.fwf.ac.at/de/applications/p/p_application-guidelines.pdf). Applicants at NSFC will find detailed information about the call for proposals on NSFC's website http://www.nsfc.gov.cn.

For the 2011 call, the two organisations agreed to support Joint Projects in the following fields of basic research:

(1) Cardio-cerebrovascular diseases
(2) Nutrition metabolism and the pathogens of related diseases
(3) Kidney disease
(4) Aging related disease
(5) Mental diseases and psychological health
(6) Stem cell and diseases
(7) Regeneration medicine
(8) Medical imaging and biomedical engineering
(9) Epidemiology and precaution strategies for major diseases
(10) Food hygiene
(11) Drug genomics and metabonomics
(12) New technologies and methodologies for diagnosis and Treatment

For project applications in other scientific fields the two organisations must be contacted first. The maximum project duration is 3 years.

Writing a Proposal

Applicants have to submit an application to NSFC *and* FWF using the application forms by NSFC and FWF respectively ("NSFC-FWF Application for funding of a Joint Project") with a narrative text as an attachment. The title and the text of the scientific part (narrative text) must be identical. The narrative text must be written in English and must meet the following criteria:

All parts of the narrative text (scientific description of the project) must be submitted in 11pt type.

The narrative text must be composed of:

- the project description (max. 20 pages including any tables and figures, A4, printed on one side only, with numbered pages, unbound, line spacing 1.5);
- a list of literature relevant to the project incl. list of abbreviations (max. 5 pages);
- scientific *curricula vitae* of the project participants (project leader and scientific coworkers, when these are already known; max. 3 pages for each person);

• lists of scientific publications from the past five years (especially those relevant to the application) of project participants (of the project leaders and other scientific personnel if already known by name); separate list of the researchers 10 most important scientific publications in the researcher's entire career.[1]

The project description must include the following points:

• description of the added value to be expected from the collaboration

• distribution of work (working plan)

• separate budgets (justification of personnel costs and of non-personnel costs; please consult the respective application *guidelines for eligible costs*.)

Proposals must reach the two organisations by April 29, 2011.

Evaluation—Funding Decision

NSFC and FWF have agreed to jointly evaluate the applications for Joint Projects. On the basis of the reviews, the two funding agencies take their funding decision. Only if both funding organisations approve to fund a joint project, the project can be financed.

Joint Seminars (JS)

Joint Seminars are scientific meetings, taking place either in China or in Austria, which bring together research groups from the two countries. The purpose of a Joint Seminar is to prepare an application for a Joint Project or to establish closer links between research partners from the two countries. Applications must be sent in parallel to FWF and NSFC, thereby following the application guidelines of the respective funding organisation. Again, the costs for a JS are split between the two sides. Applicants from the "sending country" can apply for international travel costs at their national funding agency. Applicants from the "receiving country" can apply for hotel costs for the guests, seminar-related costs as well as for a daily allowance for the guests.

Joint Seminars can be applied for in all scientific disciplines (basic research).

For JS application in other scientific fields, the two funding organisations have to be contacted. The deadline for applications is April 29, 2011.

The maximum number of participants in a JS is 10 persons for the sending party and 15 to 20 persons for the receiving party. Applicants have to use the application forms of their respective national funding agency. Detailed information regarding JS applications at FWF can be found on FWF's homepage (http://www.fwf.ac.at/de/applications/ajs-joint-seminars.html). Information about the call for proposals for Chinese applicants can be found on NSFC's website http://www.nsfc.gov.cn.

NSFC and FWF will evaluate applications separately. Only if both funding organisations approve of the respective applications, the Joint Seminar will be financed.

Contacts for Applicants:

NSFC	FWF
Ms. FAN Yingjie Division of Western Europe 83 Shuangqing Road Haidan District Beijing 100085, China Tel: +86 10 6232-5309 Fax: +86 10 62327004 fanyj@nsfc.gov.cn www.nsfc.gov.cn	Dr. Christoph Bärenreuter Sensengasse 1 1090 Wien / Vienna Austria Tel: +43 (0)1 / 505 67 40-8702 Fax: +43 (0)1 / 505 67 39 christoph.baerenreuter@fwf.ac.at www.fwf.ac.at

[1] The publication list must mention for each work: all authors; full title; series/journal title; year; and page numbers.

Conditions of submission and selection of French-Chinese joint research projects for 2011

A collaboration agreement was signed between the ANR and the Natural Sciences Foundation of China (NSFC) in order to facilitate the setting-up and implementation of scientific projects of quality jointly proposed by French and Chinese research teams, in the framework of the ANR's Blanc Programme and the NSFC's International Joint Research Projects.

The conditions specific to this agreement are specified below. The aim is to finance innovative and collaborative research projects of high quality between the best French and Chinese teams. The partners shall ensure that the scientific contributions of French and Chinese partners are equitably balanced. The total number of funded projects will depend on the relative quality of the submitted projects. The French part of the call for proposals is managed and evaluated in the framework of the ANR's Blanc International II Programme. It is therefore crucial to read the Blanc International II call text. The acceptability, eligibility and evaluation criteria of the Blanc International II Programme are applicable to the projects proposed in the framework of the ANR/NSFC collaboration, unless otherwise specified in this appendix.

Priority will be given to projects falling within the scope of the following areas:

- Information and Communication Science and Technologies
- Nanosciences and Nanotechnologies
- Engineering Sciences including Materials Sciences

In the framework of this call for proposals, applicants are invited to present projects justifying ANR funding of 100 k to 200 k in average, including for fundamental research projects. This does not exclude that some projects with higher amounts of funding might be selected. The place of origin principle will be applied to the funding, that is to say that each organisation-the ANR and the NSFC-will finance the expenses relative to its own partner(s).

The costs of participation in one symposium abroad at mid-project or end of project are to be budgeted for each partner. The candidate French and Chinese partners will prepare a joint scientific file that they will submit to the ANR and the NSFC in parallel at the same time. The application file must be submitted in each country in compliance with the submission format, the rules of eligibility, and the call for proposals closing date specific to the country concerned. Proposals submitted in one country only are not eligible. The mid-term and final reports must be written in English jointly by the French and Chinese partners into the format required by ANR. It has to be sent to ANR by the French project leader and to NSFC by the Chinese project leader.

Planned schedule:

Closing of the ANR call for proposals: April 14th, 2011

Joint ANR/NSFC decision and publication of the results: November 2011

Possible start of projects: December 2011—January 2012

FURTHER INFORMATION CONCERNING CONDITIONS FOR CHINESE PARTNERS

The information concerning the conditions of submission to NSFC is available at the following Internet address:

http://www.nsfc.gov.cn/Portal0/InfoModule_396/31577.htm

Contact:
LU Rongkai
E-mail: lurk@mail.nsfc.gov.cn
Division of Western Europe
Bureau of International Cooperation
NSFC
83, Shuangqing Road, Haidian District
Beijing 100085, China
Phone: 010-62327014
Fax: 010-62327004

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According to the NSFC-NIH MoU, the two agencies will jointly support personnel exchanges, bilateral workshops and collaborative research projects in the field of basic and translational biomedical research.

An Implementation Agreement was further signed by Dr. Collins and Prof. Chen in December 2010 to develop a new China-US Program for biomedical research cooperation. A Joint Working Group (JWG), made up of a specified number of members from both NSFC and NIH, will develop strategic plans for collaboration and facilitate the review and clearance of proposed bilateral projects. Both NSFC and NIH have allocated funds to support joint activities pursued under this program.

For 2011, a pilot joint program was released on Jan. 31 which will support research and exchanges in cancer, allergy, immunology and infectious diseases including HIV/AIDS. NSFC may award up to 300 000 RMB to each project and the estimated number of project to be supported is 33.

Conditions of submission and selection of Chinese-Dutch joint research projects for 2011

The Netherlands Organisation for Scientific Research (NWO) and the National Natural Science Foundation of China (NSFC) are long-term partners in international research cooperation. In 2009, NWO and NSFC have decided to expand their existing agreement focusing on exchange of researchers with an additional component focusing on funding joint research projects.

The current edition of joint research projects focuses on 5 themes within the field of Plant Developmental Biology.

Who can apply?

Eligible research teams are composed of Dutch and Chinese researchers, with active involvement in the project of a senior Principal Investigator on both the Chinese and the Dutch side.

For Dutch scientists the NWO eligibility criteria are applied, i. e. the Dutch principal investigator should be affiliated to:

- A Dutch university; or
- A Dutch non-profit institution for scientific research, qualified to submit research proposals to NWO.

In line with the rules for Chinese applicants, Dutch scientists may be involved with one application only.

What can be applied for?

For the Chinese part of the project, the NSFC criteria apply, as can be found on the NSFC website.

The Dutch PI can apply for 1 PhD or Post-doc researcher.

The budget for material costs (travel, materials, fieldwork a. o.) may not exceed €60 000; the total budget of the Dutch part of the project may not exceed €280 000.

Information on the budget available to Chinese researchers within a Joint Research Project can be found in the programme brochure and through NSFC.

When can be applied?

- Closing date for submitting proposals is 28 April 2011, 11:00 hrs.

Extra Information

Although the application is for Joint Research Projects, describing projects carried out in both China and the Netherlands, the actual submission of the proposal should be done by the Dutch PI, who will serve as contact during the evaluation procedure. All information, application form and correspondence will be in the English language.

Selection

Criteria

In assessing and ranking the proposals, the assessment committee will consider the following criteria:

- Relevance to the theme of the call (Plant Developmental Biology);
- Scientific quality of the research proposal;
- Challenging content;
- Originality of the topic;
- Innovative elements;
- Potential impact on advancement of science;
- Suitability of the proposed method;
- Quality of the research groups;
- Sino-Dutch cooperation.

Procedure

After submission, the proposals will be checked for eligibility by both NSFC and NWO. The eligible proposals will be sent to referees. Through the Dutch PI, the applicants will be able to write a rebuttal.

The Sino-Dutch evaluation committee considers the applications, reviews and rebuttals during a joint meeting. The resulting advice and ranking list is then presented to both NSFC and NWO. After both organisations have reached a joint decision, the applicants are informed, after which the granted projects officially start on 1 January 2012.

Committees

There is one joint Sino-Dutch evaluation committee, consisting of scientific experts from China and the Netherlands.

Additional information

Budget

The budget for the Dutch parts of the Joint Research Projects amounts to €1 500 000.

Financiers

Netherlands Organisation for Scientific Research and the National Natural Science Foundation of China (NSFC).

Contacts

- Mr drs. Th. A. W. M. Saat (ALW)
  phone: +31 (0)70 344 07 91, e-mail: t. saat@nwo. nl
- Ms Saskia Matheussen (NWO)
  phone: +31 (0)70 344 05 49, e-mail: s. matheussen@nwo. nl
- Ms Fan Yingjie (NSFC)
  phone: +86 10 62325309, email: fanyj@nsfc. gov. cn

• Information Update •

Program of International Research Coordination Networks on Dimensions of Biodiversity Announced

The National Natural Science Foundation of China (NSFC) and the National Science Foundation (NSF) seek to encourage the development of international research coordination networks. Such networks would support interactions among Chinese and US scientists to develop new research directions or to advance new fields of research. Groups of investigators in China and the US may be supported to communicate and coordinate their research, training, and educational activities across disciplinary, organizational, institutional and geographic boundaries. NSFC will award up to 750 000 RMB to each approved project for a period of 5 years. The due date for Chinese applicants is April 5, 2011.

* * * *

• Research Results •

Relations found between human memories and similar neural patterns

In a project funded by NSFC, Professor Xue Gui of Beijing Normal University and his research team discovered that memories stick to similar neural patterns. A paper published on *Science* in September 2010 reported this discovery. This paper was jointly written by Xue Gui and his colleague Q. Dong in Beijing and US collaborators G. Xue, Z. Lu at University of Southern California, C. Chen at University of California, Irvine, J. A. Mumford and R. A. Poldrack at University of Texas, Austin.

According to the article on *Science*, when someone is studying something or trying to keep it in mind, they generate various patterns of neural activity. Professor Xue Gui and his collaborators found out that similar patterns of neural activity during this memory-encoding period actually indicate a greater likelihood that the individual will recall that memory at a later date. Patterns of neural activity that appear different are less likely to be remembered, they say.

It is reported by *Science* that in order to make this discovery, Xue Gui and his colleagues monitored the brains of healthy human volunteers with fMRI while they performed a set of experiments. In one experiment, for example, the volunteers attempted to memorize 120 different faces of people, each one presented to them four separate times. After an hour, the volunteers were shown 240 faces-half of them learned and half of them new-and asked to identify which ones they had already seen in the previous task.

The research results answered a long-standing debate among the psychology community by demonstrating that memories are more likely to stick in an individual's mind when the same neural representations are reactivated, rather than when the patterns of activation appear variable.

The title of the article published on *Science* is "Greater Neural Pattern Similarity Across Repetitions is Associated with Better Memory".