

Results of Applications for the 2014 Integrated Thematic Projects at Academia Sinica Announced

There is a total of 30 applications for the 2014 Thematic Projects (7 from Division of Mathematics and Physical Sciences; 19 from Division of Life Sciences; 4 from Division of Humanities and Social Sciences). The applications require a budget of NT\$270,502,000 in total (NT\$71,370,000 for Division of Mathematics and Physical Sciences; NT\$178,274,000 for Division of Life Sciences; NT\$20,858,000 for Division of Humanities and Social Sciences).

Of all the applications, 16 were approved in the meetings of the Second-round Review and Budget Review, including 4 from Division of Mathematics and Physical Sciences, 9 from Division of Life Sciences, and 3 from Division of Humanities and Social Sciences. The total approved budget amounts to NT\$106,068,000 (NT\$26,384,000 for Division of Mathematics and Physical Sciences; NT\$65,905,000 for Division of Life Sciences; NT\$13,779,000 for Division of Humanities and Social Sciences). Please refer to the following table for detailed information.

Type I : The 1st category grants are unsolicited integrated research programs.

A. Division of Mathematics and Physical Sciences: (4 projects)

Project No.	Title of Thematic Project	Project Director	Institution
AS-103-TP-A01	Single molecule screening of aptamers by sub-wavelength nanoapertures– Toward Rapid Identification of Different Epitope-Binding Aptamers	Chia-Fu Chou Pei-Kuen Wei Lin-Chi Chen	Institute of Physics, Academia Sinica; Research Center for Applied Sciences, Academia Sinica; Department of Bio-Industrial Mechatronics Engineering, National Taiwan University
AS-103-TP-A02	Investigation of the Origin of Superconductivity in Fe-based Superconductors and the Search for New Novel Superconducting Materials	Shang-Fan Lee Maw-Kuen Wu Ming-Jye Wang	Institute of Physics, Academia Sinica; National Dong Hwa University; Institute of Astronomy and Astrophysics, Academia Sinica
AS-103-TP-A05	Computational Design of Low-Dimensional Advanced Materials	Mei-Yin Chou Ching-Ming Wei Guang-Yu Guo	Institute of Atomic and Molecular Sciences, Academia Sinica; Institute of Atomic and Molecular Sciences, Academia Sinica; Graduate Institute of Applied Physics, National Chengchi University
AS-103-TP-A06	Nano-plasmonic Structure for the Applications in Green Energy and Biomaterials	Din Ping Tsai	Research Center for Applied Sciences, Academia Sinica

B. Division of Life Sciences : (8 projects)

Project No.	Title of Thematic Project	Project Director	Institution
AS-103-TP-B01	Experimental evolution of molecular parasites- satellite RNAs associated with plant viruses	Na-Sheng Lin Ing-Nang Wang	Institute of Plant and Microbial Biology, Academia Sinica; Department of Biological Sciences , University at Albany, State University of New York, USA
AS-103-TP-B02	The dynamics and localization of DNA replication and repair Nano-machine	Tao-Shih Hsieh	Institute of Cellular and Organismic Biology, Academia Sinica
AS-103-TP-B05	Neural Morphogenesis: Molecular Mechanisms and Implications in Diseases	Yi-Ping Hsueh	Institute of Molecular Biology, Academia Sinica
AS-103-TP-B06	Molecular basis for cysteine redox modifications in ischemic cardiomyopathy and cardioprotection	Tzu-Ching Meng	Institute of Biological Chemistry, Academia Sinica
AS-103-TP-B10	Investigation of human Induced pluripotent stem cells (iPSC) as a potential therapeutic platform for polyglutamine (polyQ)-mediated neurodegenerative diseases	Yi-Juang Chern	Institute of Biomedical Sciences, Academia Sinica
AS-103-TP-B11	Plant Phosphate Transporters: Structure, Mechanism and Regulation	Tzyy-Jen Chiou	Agricultural Biotechnology Research Center, Academia Sinica
AS-103-TP-B12	Structural-and-Functional Probing of the Dynamic Spliceosomal Assembly	Tien-Hsien Chang	Genomics Research Center, Academia Sinica
AS-103-TP-B15	Influence of global warming on subalpine lake ecosystems	Chih-Yu Chiu	Biodiversity Research Center, Academia Sinica

C. Division of Humanities and Social Sciences: (3 projects)

Project No.	Title of Thematic Project	Project Director	Institution
AS-103-TP-C02	Commonality and Divergence: the Convergence, Transmission, and Variation of Cultural Images of East Asia before the 18th Century	Chao-Hen Liao Shiuh-Feng Liu Sheng-Chih Lin	Institute of Chinese Literature and Philosophy, Academia Sinica; Research Center for Humanities and Social Sciences, Academia Sinica; Institute of History and Philology, Academia Sinica
AS-103-TP-C03	Social Media and Contingent Network Structures: Events, Boundaries, and Diffusion	Yang-Chih Fu Jing-Shiang Hwang	Institute of Sociology, Academia Sinica; Institute of Statistical Science, Academia Sinica
AS-103-TP-C04	The effects of neurocognitive aging on executive functions in the human brain	Ovid J. L. Tzeng	Institute of Linguistics, Academia Sinica

TYPE II: The 2nd category grants are solicited research programs related to nation priority research themes.

A. Division of Life Sciences: (1 project)

Project No.	Title of Thematic Project	Project Director	Institution
AS-103-TP2-B03	Root Growth Promoting Genes as Molecular Markers for Breeding of Low-nutrient and Abiotic-stress Tolerant and High-yield Rice Cultivars	Su-May Yu	Institute of Molecular Biology, Academia Sinica