

Results of Applications for the 2019 Thematic Projects at Academia Sinica Announced

There is a total of 29 applications for the 2019 Thematic Projects (14 from Division of Mathematics and Physical Sciences; 13 from Division of Life Sciences; 2 from Division of Humanities and Social Sciences). The applications require a budget of NT\$260,181,000 in total (NT\$143,179,000 for Division of Mathematics and Physical Sciences; NT\$104,218,000 for Division of Life Sciences; NT\$12,784,000 for Division of Humanities and Social Sciences).

13 out of 29 applications were approved in the meetings of the Second-round Review and Budget Review, including 7 from Division of Mathematics and Physical Sciences, 5 from Division of Life Sciences, and 1 from Division of Humanities and Social Sciences. The total approved budget amounts to NT\$95,529,000 (NT\$50,500,000 for Division of Mathematics and Physical Sciences; NT\$41,029,000 for Division of Life Sciences; NT\$4,000,000 for Division of Humanities and Social Sciences). Please refer to the following table for detailed information. Approved projects may not be executed until budget plans are officially approved.

A. Division of Mathematics and Physical Sciences: (7 projects)

Project No.	Title of Thematic Project	(1) Project Director	Institution
AS-TP-108-ML01	Applying Particle Physics Technology to Develop On-line Monitoring and Control System for Hadron Therapy	(1) SHIH-CHANG LEE	Institute of Physics, Academia Sinica
AS-TP-108-ML03	AFM-based Electrochemical Probes for Monitoring Active Reaction Sites and Potential Distribution at the Electrolyte Interface of Solids and Cells	(1) CHII-DONG CHEN	Institute of Physics, Academia Sinica
AS-TP-108-M05	Investigation of Unconventional Electronic Properties in Complex Oxide Systems and Their Interfaces	(1) WEI-LI LEE	Institute of Physics, Academia Sinica
AS-TP-108-ML06	Exploring Sweet Interaction of Immune Cell Network and Neoplasm Microenvironment by Ultrasensitive Systems Glycobiology and Targeting Materials	(1) YU-JU CHEN	Institute of Chemistry, Academia Sinica,
AS-TP-108-ML07	Structural Studies on the Functional Particulate Methane Monooxygenase (pMMO) from <i>Methylococcus Capsulatus</i> (Bath)	(1) SHENG-FA YU	Institute of Chemistry, Academia Sinica,
AS-TP-108-M08	Understanding the Landslide and Erosion Processes: Multidisciplinary Research on Landslide Detection, Slope Failure, and Sediment Transport	(1) YU-CHANG CHAN	Institute of Earth Sciences, Academia Sinica
AS-TP-108-M12	Tunable Metasurfaces	(1) DIN PING TSAI	Research Center for Applied Sciences, Academia Sinica

B. Division of Life Sciences : (5 projects)

Project No.	Title of Thematic Project	(1) Project Director	Institution
AS-TP-108-L01	Impact of mRNA Maturation and Selective Translation on Plant Reproduction	(1) GUANG-YUH JAUH	Institute of Plant and Microbial Biology, Academia Sinica
AS-TP-108-L07	Homology Directed Repair and Recombination: Mechanisms, Regulation and Evolution	(1) TING-FANG WANG	Institute of Molecular Biology, Academia Sinica
AS-TP-108-L08	Organoid as a Model to Study the Molecular Basis of Primate/human Brain Development and Related Diseases	(1) TANG K. TANG	Institute of Biomedical Sciences, Academia Sinica
AS-TP-108-L09	Targeting Humoral Immunity to Cure Chronic Hepatitis B Infection	(1) MI-HUA TAO	Institute of Biomedical Sciences, Academia Sinica
AS-TP-108-LM14	Impact of Climate Change and Coral Reef Governance: A Holistic Approach Using the Green Island as Model System in Taiwan	(1) CHAOLUM ALLEN CHEN	Biodiversity Research Center, Academia Sinica

C. Division of Humanities and Social Sciences: (1 project)

Project No.	Title of Thematic Project	(1) Project Director	Institution
AS-TP-108-H01	Why Shentigan Matters and How It Works?	(1) SHUENN-DER YU	Institute of Ethnology, Academia Sinica