

# Bulletin Board

## Results of Applications for the 2018 Integrated Thematic Projects at Academia Sinica Announced

There were a total of 31 applications for the 2018 Thematic Projects (10 from Division of Mathematics and Physical Sciences; 18 from Division of Life Sciences; 3 from Division of Humanities and Social Sciences). The applications requested a budget of NT\$311,233,000 in total (NT\$111,229,000 for Division of Mathematics and Physical Sciences; NT\$184,746,000 for Division of Life Sciences; NT\$15,258,000 for Division of Humanities and Social Sciences).

17 out of 31 applications were approved in the meetings of the Second-round Review and Budget Review. Of those, 6 were from Division of Mathematics and Physical Sciences, 8 from Division of Life Sciences, and 3 from Division of Humanities and Social Sciences. The total approved budget amounts to NT\$122,939,000 (NT\$45,000,000 for Division of Mathematics and Physical Sciences; NT\$64,896,000 for Division of Life Sciences; NT\$13,043,000 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: (6 projects)

Project No.	Title of Thematic Project	(1) Project Director (3) Co-PI (4) API	Institution
AS-107-TP-A04	Electrical and Thermal Manipulations of Spin Transport in Spintronic Materials and Interfaces	(1) SHANG-FAN LEE	Institute of Physics, Academia Sinica
AS-107-TP-A05	Cross-Lingual Cross-Document Knowledge Discovery at Micro and Macro Levels	(1) KEH-YIH SU (3) HSIN-HSI CHEN	Institute of Information Science, Academia Sinica Department of Computer Science & Information Engineering, National Taiwan University
AS-107-TP-A06	Evolution and the Mechanism of Gene Dosage Buffering in Eukaryotes	(1) HUAI-KUANG TSAI	Institute of Information Science, Academia Sinica

AS-107-TP-A08	Carbohydrate Structural Determination by IR Absorption, Mass Spectrometry, and High Level Quantum Chemistry Calculations, and Applications on Tumor-Associated Carbohydrate Antigen	(1) CHI-KUNG NI	Institute of Atomic and Molecular Sciences, Academia Sinica
AS-107-TP-A09	Development of Multifunctional Organic Bioelectronic for Effective Neural Interfacing	(1) PEILIN CHEN (3) HSIAO-HUA YU	Research Center for Applied Sciences, Academia Sinica Institute of Chemistry, Academia Sinica
AS-107-TP-A10	Numerical Study of Microphysics and Dynamics of Deep Convective Clouds, Comparison with Satellite Data and Their Impact on Global Climate	(1) PAO-KUAN WANG	Research Center for Environmental Changes, Academia Sinica

### B. Division of Life Sciences : ( 8 projects )

Project No.	Title of Thematic Project	(1) Project Director (3) Co-PI (4)API	Institution
AS-107-TP-B02	Activation and In-activation of TE Transposition: Mechanism and Utilization	(1) YUE-IE, CAROL HSING (4) ETIENNE BUCHER	Institute of Plant and Microbial Biology, Academia Sinica Institut de Recherche en Horticulture et Semences, INRA, France
AS-107-TP-B07	Mitochondrial Dynamics in the Control of Cellular and Tissue Functions	(1) WEI-YUAN YANG	Institute of Biological Chemistry, Academia Sinica
AS-107-TP-B08	Synthesis and Mechanistic Study of Pregnenolone Derivatives that Enhance Neural Activities	(1) BON-CHU CHUNG	Institute of Molecular Biology, Academia Sinica
AS-107-TP-B11	Glycosidic Switch Liposomes for Effective Cancer Therapy	(1) STEVE ROFFLER	Institute of Biomedical Sciences, Academia Sinica
AS-107-TP-B12	Synthetic Bioinspired Liposome Drugs for Targeted Cardiovascular Therapy	(1) PATRICK C.H. HSIEH	Institute of Biomedical Sciences, Academia Sinica

AS-107-TP-B15	From Exploiting Pancreatic Tumorigenesis to Developing New Therapeutics	(1) CHIA-NING SHEN (3) WEN-HWA LEE (4) CHUN-MEI HU	Genomics Research Center, Academia Sinica Genomics Research Center, Academia Sinica Genomics Research Center, Academia Sinica
AS-107-TP-B16	Studying the Signaling Complex Assembly of the Death Domain Superfamily Members in Innate Immunity, Apoptosis, Necroptosis and Pyroptosis, and its Relationships to the Activation of Downstream Molecules, and Their Electron Microscopic Investigations	(1) SU-CHANG LIN	Genomics Research Center, Academia Sinica
AS-107-TP-B18	Reconstructing a Holistic Picture of Austronesian Expansion and Migration by Integrating Archaeological, Biological, and Climatic Data	(1) KUO-FANG CHUNG	Biodiversity Research Center, Academia Sinica

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

Project No.	Title of Thematic Project	(1) Project Director (3) Co-PI (4)API	Institution
AS-107-TP-C01	Indigenous People, State and Governance : Comparative Austronesian Perspectives	(1) PEI-YI GUO	Institute of Ethnology, Academia Sinica
AS-107-TP-C02	A Comparative Study of the Chinese Nationalist Party and the Communist Party of China	(1) TZU-CHIN HUANG	Institute of Modern History, Academia Sinica
AS-107-TP-C03	Empire and Civilization: Critical Reflections on the Formulation of Universal Values (Europe:1650-1850)	(1) KUO-SHIANG ROY TSENG	Research Center for Humanities and Social Sciences, Academia Sinica