

## Results of Applications for the 2016 Integrated Thematic Projects at Academia Sinica Announced

There is a total of 23 applications for the 2016 Thematic Projects (7 from Division of Mathematics and Physical Sciences; 12 from Division of Life Sciences; 4 from Division of Humanities and Social Sciences). The applications require a budget of NT\$209,418,000 in total (NT\$77,986,000 for Division of Mathematics and Physical Sciences; NT\$110,670,000 for Division of Life Sciences; NT\$20,762,000 for Division of Humanities and Social Sciences).

Of all the applications, 13 were approved in the meetings of the Second-round Review and Budget Review, including 5 from Division of Mathematics and Physical Sciences, 5 from Division of Life Sciences, and 3 from Division of Humanities and Social Sciences. The total approved budget amounts to NT\$93,515,000 (NT\$37,870,000 for Division of Mathematics and Physical Sciences; NT\$46,645,000 for Division of Life Sciences; NT\$9,000,000 for Division of Humanities and Social Sciences). Please refer to the following table for detailed information.

### A. Division of Mathematics and Physical Sciences: (5 projects)

Project No.	Title of Thematic Project	(1)Project Director (3) Co-PI	Institution
AS-105-TP-A03	Manipulating the electronic structures of quantum materials by magnetic impurities, Landau levels, and external strain	(1)Wei-Bin Su  (3)Woei Wu Pai	Institute of Physics, Academia Sinica Center for Condensed Matter Sciences, National Taiwan University
AS-105-TP-A04	Multi-Scale Boundary Mechanics in Development and Diseases	(1)Chin-Lin Guo  (3)Kung-Hsuan Lin  (3)Pei-Lin Cheng	Institute of Physics, Academia Sinica Institute of Physics, Academia Sinica Institute of Molecular Biology, Academia Sinica
AS-105-TP-A05	High Performance Chemical Probe-based Glycoproteomics to Illuminate Patho-physiological Transformation in B Cell Lymphomagenesis and Treatment Responses	(1)Yu-Ju Chen  (3)Hwei-Fang Tien  (3)Shang-Ju Wu	Institute of Chemistry, Academia Sinica Internal Medicine, National Taiwan University Hospital Internal Medicine, National Taiwan University Hospital

AS-105-TP-A06	Integrative platforms for investigation of cell-cell communications and cell transformation under physico-chemical stimulations	(1)Chau-Hwang Lee	Research Center for Applied Sciences, Academia Sinica
AS-105-TP-A07	Activity monitoring and interactive presentation design for active aging: sensor platform, activity mining and interactive art	(1)Yu-Chee Tseng  (3)Ling-Jyh Chen	Research Center for Information Technology Innovation Institute of Information Science, Academia Sinica

**B. Division of Life Sciences : ( 5 projects )**

<b>Project No.</b>	<b>Title of Thematic Project</b>	<b>(1)Project Director (3) Co-PI</b>	<b>Institution</b>
AS-105-TP-B03	Roles of RNA processing in plant sexual reproduction	(1)Guang-Yuh Jauh	Institute of Plant and Microbial Biology, Academia Sinica
AS-105-TP-B04	Control of Mitochondrial Function and Structure in tissue integrity	(1) Tao-Shih Hsieh	Institute of Cellular and Organismic Biology, Academia Sinica
AS-105-TP-B05	To delineate how bacterial pathogenicity and inflammation are under the control of gastrointestinal mucosal glycosylation	(1)Chun-Hung Lin	Institute of Biological Chemistry, Academia Sinica
AS-105-TP-B07	The regulatory mechanism of Dmc1-mediated recombination in meiosis	(1)Ting-Fang Wang	Institute of Molecular Biology, Academia Sinica
AS-105-TP-B08	The roles of galectins and C-type lectin receptors in anti-fungal and anti-bacterial immunity	(1)Fu-Tong Liu	Institute of Biomedical Sciences, Academia Sinica

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

<b>Project No.</b>	<b>Title of Thematic Project</b>	<b>(1) Project Director (3) Co-PI</b>	<b>Institution</b>
AS-105-TP-C01	Modernity Reconsidered: An East Asian View on Theoretical Genealogies and Historical Comparisons	(1)Chih-Chieh Tang  (3) Wei-Hsian Chi	Institute of Sociology, Academia Sinica  Institute of Sociology, Academia Sinica
AS-105-TP-C02	To optimize mental capital and well-being in children and elders through brain science technologies and intervention	(1)Chia-Ying Lee  (3) Chao-Lin Liu	Institute of Linguistics, Academia Sinica  Department of Computer Science, National Chengchi University
AS-105-TP-C04	Re-thinking “colonial medicine”—its nature and definition	(1)Shi-Yung Liu	Research Center for Humanities and Social Sciences, Academia Sinica