

## Results of Applications for the 2015 Integrated Thematic Projects at Academia Sinica Announced

There is a total of 27 applications for the 2015 Thematic Projects (12 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\$262,131,000 in total (NT\$130,999,000 for Division of Mathematics and Physical Sciences; NT\$122,762,000 for Division of Life Sciences; NT\$8,370,000 for Division of Humanities and Social Sciences).

Of all the applications, 12 were approved at the meetings of the Second-round Review and Budget Review, including 6 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 is approximately to NT\$90,748,000 (NT\$43,600,000 for Division of Mathematics and Physical Sciences; NT\$44,045,000 for Division of Life Sciences; NT\$2,833,000 for Division of Humanities and Social Sciences). Please refer to the following table for detailed information.

### A. Division of Mathematics and Physical Sciences: (6 projects)

Project No.	Title of Thematic Project	Project Director	Institution
AS-104-TP-A03	Three-dimensional Microvisualization and Complete Parameterization of Complex Networks	Yeu-Kuang Hwu	Institute of Physics, Academia Sinica
AS-104-TP-A04	Imaging the Ryukyu Subduction System: Dynamics, Structure, and Earthquake Potential	Ban-Yuan Kuo	Institute of Earth Sciences, Academia Sinica
AS-104-TP-A05	Cross-layer Network Designs of 5G Ultra Dense Small-Cell Networks	Meng-Chang Chen Wanjiun Liao	Institute of Information Science, Academia Sinica Department of Electrical Engineering, National Taiwan University
AS-104-TP-A07	A Personalized Cancer Genomic and Epigenomic Study of Lung Adenocarcinoma in Taiwan	Ker-Chau Li	Institute of Statistical Science, Academia Sinica
AS-104-TP-A10	Fluorescent Nanodiamonds Based Quantum Sensing and Quantum Optics	Ming-Shien Chang Ying-Cheng Chen	Institute of Atomic and Molecular Sciences, Academia Sinica Institute of Atomic and Molecular Sciences, Academia Sinica
AS-104-TP-A11	Development of Conducting Polymer Based Bioelectronic Interface Platform for Biomedical Applications	Peilin Chen Hsiao-Hua Yu	Research Center for Applied Sciences, Academia Sinica Institute of Chemistry, Academia Sinica

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

Project No.	Title of Thematic Project	Project Director	Institution
AS-104-TP-B01	Modulating Rice Root Growth and Differentiation for Stress Tolerance and Yield Enhancement	Tuan Hua Ho	Institute of Plant and Microbial Biology, Academia Sinica
AS-104-TP-B02	Signals, Enzymes and Mechanisms of Phosphate Deficiency-induced Changes in Root Development and Lipid Metabolism	Schmidt Wolfgang	Institute of Plant and Microbial Biology, Academia Sinica
AS-104-TP-B05	Structure and Mechanism of Protein-phosphoprotein Interaction and PTM Crosstalk	Ming Daw Tsai	Institute of Biological Chemistry, Academia Sinica
AS-104-TP-B09	Studying the Molecular Control of Neurogenesis	Tang K. Tang	Institute of Biomedical Sciences, Academia Sinica
AS-104-TP-B10	Unraveling Gliomas Using Diffusion Basis Spectrum Imaging (DBSI): Validation, Development, and Applications	Chen Chang	Institute of Biomedical Sciences, Academia Sinica

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

Project No.	Title of Thematic Project	Project Director	Institution
AS-104-TP-C01	Culture, History, and State Formation: Creating Minority Nationalities in Modern China	Ko-Wu Huang Ming-Ke Wang	Institute of Modern History, Academia Sinica Institute of History and philology, Academia Sinica