

## 2017 SUMS Grant for Foreign Visiting Researchers

### ---List of the Candidate Host Departments and their Research Themes for Prospective Grant Winners

	Department (Division)	Research Theme	Program Period
1	Anatomy (Anatomy and Cell Biology)	Analysis of the mechanism which causes disturbance of postnatal brain function led by a fetal stress	12months
2	Anatomy (Morphological Neuroscience)	•Stem cell aging •Molecular mechanisms of stem cell regulation	12months
3	Physiology (Cell Physiology)	Molecular mechanisms for ischemia reperfusion injury in the heart	12months
4	Biochemistry and Molecular Biology (Molecular Medical Biochemistry)	Regulatory mechanisms of signal transduction in cardiovascular diseases and cancer	12months
5	Biochemistry and Molecular Biology (Stem Cell Biology and Regenerative Medicine)	Development of advanced therapy by regenerative medicine	12months
6	Social Medicine (Public Health)	Epidemiology	12months
7	Internal Medicine (Respiratory Medicine)	Pulmonary functional imaging analysis of COPD	12months
8	Psychiatry	• Pathology and treatment strategy for insomnia associated with depression and anxiety • Sleep disorder and dementia	12months
9	Surgery (Gastrointestinal Surgery and General Surgery)	The relationship between colon cancer and cancer-associated fibroblast	12months
10	Surgery (Cardiovascular Surgery and Thoracic Surgery)	•Quantitative analysis of mitral valve morphology and function using real-time tree-dimensional echocardiography in patients with mitral regurgitation •Gross and histological assessment of resected specimens of mitral leaflet in patients with degenerative mitral regurgitation •Histological and functional analysis of vascular graft in patients undergoing coronary artery bypass graft	6months 12months
11	Orthopedic Surgery	Clinical application of autologous cartilage transplantation	6months
12	Otorhinolaryngology	Pathophysiology of allergic rhinitis and eosinophilic chronic rhinosinusitis	12months
13	Medical Oncology	Molecular and cellular biology of cancer	12months
14	Physical Medicine and Rehabilitation	Rehabilitation applied for reverse total shoulder arthroplasty	6months
15	Cancer Center	Translational research and the development of new immunotherapy and molecular therapy for cancer	12months
16	Molecular Neuroscience Research Center (Diagnostics and Therapeutics for Brain Diseases)	Clarification of molecular basis of Alzheimer's disease and developments of novel diagnostic and therapeutic methods	12months
17	Molecular Neuroscience Research Center (Molecular Neuropathology)	Molecular study for therapeutic development for preventing and treating age-related cognitive decline by targeting endogenous molecules showing unsuspected disease-modifying activities	12months
18	Center for Epidemiologic Research in Asia	Epidemiology	12months
19	Biomedical Innovation Center	Evaluation and invention of new surgical operation using microwave device	12months