|              | or serected projects for deficial conditions   | ·                       | ,   | · · · · · · · · · · · · · · · · · · ·                      | ·                                   |
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| Project Code | Project Title  | Applicant               | Institution                                   | IFS responsible<br>member or non-IFS<br>responsible member | Institution                         |
| J15001       | Development of novel multi-layer<br>magnetorheological elastomer isolators   | Li Weihua               | University<br>of<br>Wollongong                | Nakano Masami  | Tohoku<br>University                |
| J15002       | Numerical simulation for reducing future tsunami<br>damage   | Obayashi Shigeru        | Tohoku<br>University                          | Togashi Fumiya   | Applied<br>Simulations<br>Inc.      |
| J15003       | Tornado Formation Research with Wind Tunnel  | Rongjia Tao             | Temple<br>University                          | Nakano Masami  | Tohoku<br>University                |
| J15004       | Measurements of aerodynamic characteristics of the turbo-jav   | Sugihara-Seki<br>Masako | Kansai<br>University                          | Obayashi Shigeru   | Tohoku<br>University                |
| J15005       | The effects of intermediate product on the intrinsic instability of premixed flames                                    | Kadowaki Satoshi        | Nagaoka<br>University of<br>Technology        | Kobayashi Hideaki  | Tohoku<br>University                |
| J15006       | Molecular dynamics study on thermal transpiration flow   | Yamaguchi Hiroki        | Nagoya<br>University                          | Kikugawa Gota  | Tohoku<br>University                |
| J15007       | Control of thermal transport across a solid-liquid interface by using self-assembled monolayer                         | Shiomi Junichiro        | The<br>University of<br>Tokyo                 | Kikugawa Gota  | Tohoku<br>University                |
| J15008       | Technical development for the micro shape forming used by compression shearing method at room temperature              | Nakayama Noboru         | Shinshu<br>University                         | Takagi Toshiyuki   | Tohoku<br>University                |
| J15009       | Attenuation and reduction effect of underwater explosion by porous materials   | Kitagawa<br>Kazutaka    | Aichi<br>Institute of<br>Technology           | Ohtani Kiyonobu  | Tohoku<br>University                |
| J15010       | Influence of aerodynamic performances on airship and tether for behavior of captive upper-platform system              | Chiba Kazuhisa          | The University<br>of Electro-<br>Communicatio | Obayashi Shigeru   | Tohoku<br>University                |
| J15011       | Air-leakage detection system for space-debris impact using mechanochromism metal complex                               | Makihara Kanjuro        | Tohoku<br>University                          | Ohtani Kiyonobu  | Tohoku<br>University                |
| J15012       | Study on optimization of tailing edge for low noise airfoil  | Yamagata<br>Takayuki    | Niigata<br>University                         | Hayase Toshiyuki   | Tohoku<br>University                |
| J15013       | Atomizing characteristics of water and liquid nitrogen jets under high pressure environment                            | Watanabe Rikio          | Tokyo City<br>University                      | Kobayashi Hideaki  | Tohoku<br>University                |
| J15014       | Experimental Analysis on Surface Phenomena of<br>Magnetic Fluid and Development of Micro Devices                       | Sudo Seiichi            | Akita<br>Prefectural<br>University            | Nishiyama Hideya   | Tohoku<br>University                |
| J15015       | Mechanical response of vascular endothelial cells<br>under fluid shear stress with its spatial gradient                | Yoshino Daisuke         | Tohoku<br>University                          | Sakamoto Naoya   | Tokyo<br>Metropolitan<br>University |
| J15016       | Vortex dynamics of the high energy (negative temperature) state in quasi-geostrophic turbulence                        | Takahashi Naoya         | Tokyo<br>Denki<br>University                  | Hattori Yuji   | Tohoku<br>University                |
| J15017       | Study of improvement in sterilization effects on marine bacteria using underwater shock waves                          | Abe Akihisa             | Kobe<br>University                            | Sun Mingyu   | Tohoku<br>University                |
| J15018       | Research on the physical and the tribological properties of a soft metal layer originating in MeDLC on sliding surface | Goto Minoru             | UBE<br>National<br>College of<br>Technology   | Takagi Toshiyuki   | Tohoku<br>University                |
| J15019       | Topology-based multisensory realization of wake turbulence   | Takeshima Yuriko        | Tokyo<br>University of<br>Technology          | Obayashi Shigeru   | Tohoku<br>University                |

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| J15020       | Coupled analysis of high-density hydrogen safety management  | Ishimoto Jun           | Tohoku<br>University                   | Combescure Alain   | INSA de<br>Lyon                           |
| J15021       | Development of Pressure-Sensitive Paint<br>Techniques for Ballistic Range Experiments                              | Numata Daiju           | Tohoku<br>University                   | Ohtani Kiyonobu  | Tohoku<br>University                      |
| J15022       | Frequency-selection mechanism of Karman vortices and vortex suppression  | Takagi Shohei          | Tokyo<br>Metropolitan<br>University    | Obayashi Shigeru   | Tohoku<br>University                      |
| J15023       | Quantitative Visualization of Unsteady High-speed<br>Fluid Phenomena in Nature Environment                         | Mizukaki<br>Toshiharu  | Tokai<br>University                    | Obayashi Shigeru   | Tohoku<br>University                      |
| J15024       | Thermodynamic Effect on Tip Leakage Vortex<br>Cavitation   | Kang Donghyuk          | Aoyama<br>Gakuin<br>University         | Iga Yuka   | Tohoku<br>University                      |
| J15025       | Aerodynamic characteristics of a silent supersonic biplane model using a new force balance                         | Kawazoe<br>Hiromitsu   | Tottori<br>University                  | Obayashi Shigeru   | Tohoku<br>University                      |
| J15026       | Study of the unsteady flow at near mach number 1.0   | Kikuchi Takamasa       | Nihon<br>University                    | Ohtani Kiyonobu  | Tohoku<br>University                      |
| J15027       | Development of MHD Energy Conversion Device<br>for Efficient Wind Energy Utilization                               | Iwamoto Yuhiro         | Doshisha<br>University                 | Takana Hidemasa  | Tohoku<br>University                      |
| J15028       | Stability Analysis of Vortices with Axial Flow based on Energetics and its Application                             | Hattori Yuji           | Tohoku<br>University                   | Fukumoto<br>Yasuhide                                       | Kyusyu<br>University                      |
| J15029       | Rolling characteristics of neutrophils on PDMS surface mimicking the endothelial topography                        | Shirai Atsushi         | Tohoku<br>University                   | Rieu Jean-Paul   | University<br>Claude<br>Bernard<br>Lyon 1 |
| J15030       | Mechanism of shock wave propagation within the cell  | Nakagawa<br>Atsuhiro   | Tohoku<br>University<br>Hospital       | Ohtani Kiyonobu  | Tohoku<br>University                      |
| J15031       | Heat and Fluid Flow Characteristics of Liquid Film<br>Flow along<br>Heat Transfer Surface with Microscopic Grooves | Adachi Takahiro        | Akita<br>University                    | Okajima<br>Junnosuke                                       | Tohoku<br>University                      |
| J15032       | Study on Energy transport by Radiation and<br>Convection in Large Scale Environment                                | Yamada Noboru          | Nagaoka<br>University of<br>Technology | Maruyama<br>Shigenao                                       | Tohoku<br>University                      |
| J15033       | Bubble Motion and Effect of Biological Tissue by<br>Underwater Expansion Wave Irradiation                          | Hashimoto<br>Tokitada  | Saga<br>University                     | Ohtani Kiyonobu  | Tohoku<br>University                      |
| J15034       | Investigation on behavior of particles in MR fluid flows   | Ido Yasushi            | Nagoya<br>Institute of<br>Technology   | Nakano Masami  | Tohoku<br>University                      |
| J15035       | Aerodynamic Performance Improvement of Small<br>UAV  | Sasaki Daisuke         | Kanazawa<br>Institute of<br>Technology | Shimoyama Koji   | Tohoku<br>University                      |
| J15036       | Characteristic analysis of mucus of crawling locomotion in gastropods and its application to a wall climbing robot | Tsukagoshi<br>Hideyuki | Tokyo<br>Institute of<br>Technology    | Nakano Masami  | Tohoku<br>University                      |

| Project Code | Project Title   | Applicant            | Institution   | IFS responsible<br>member or non-IFS<br>responsible member | Institution                         |
|--------------|---|----------------------|---|--|-------------------------------------|
| J15037       | Study on Flow-induced Vibration of Soft Fins  | Rinoshika Akira      | Yamagata<br>University  | Nakano Masami  | Tohoku<br>University                |
| J15038       | Electronic Band Structure and Optical Properties of Quantum Dot structures for extremely high-efficiency solar cells                  | Fukuyama<br>Atsuhiko | University<br>of Miyazaki   | Samukawa Seiji   | Tohoku<br>University                |
| J15039       | Development of magnetic coil to stimulate a peripheral nerve  | Kamo Shinya          | IFG<br>Corporation  | Takagi Toshiyuki   | Tohoku<br>University                |
| J15040       | Numerical Analysis of In-flight Sprayed Particles in Plasma Jet for a Thermal Plasma Spray with an Externally Applied Magnetic Field. | Fujino Takayasu      | University<br>of Tsukuba  | Takana Hidemasa  | Tohoku<br>University                |
| J15041       | Development of high thermal efficiency plasma<br>torch for fine particle synthesis using vortex<br>plasma jet                         | Ando Yasutaka        | Ashikaga<br>Institue of<br>Technology   | Nishiyama Hideya   | Tohoku<br>University                |
| J15042       | Improvement and Micro-Channel Flow Evaluation of Electro-Rheological Nano-Suspensions   | Tanaka Katsufumi     | Kyoto<br>Institute of<br>Technology   | Nakano Masami  | Tohoku<br>University                |
| J15043       | Analysis of complex spatiotemporal structures of vortices in turbulence   | Ishihara Takashi     | Nagoya<br>University  | Hattori Yuji   | Tohoku<br>University                |
| J15044       | Study on the high-performance and high-mobility<br>MOS transistor by the neutral beam process   | Endo Kazuhiko        | National<br>Institute of<br>Advanced<br>Industrial<br>Science and<br>Technology | Samukawa Seiji   | Tohoku<br>University                |
| J15045       | Researches on the active control of hole tone phenomena   | Matsuura Kazuo       | Ehime<br>University   | Nakano Masami  | Tohoku<br>University                |
| J15046       | Study on Improvement of Aerodynamic<br>Performance for an Airborne Projectile   | Hasegawa Hiroaki     | Akita<br>University   | Obayashi Shigeru   | Tohoku<br>University                |
| J15047       | Investigation of Non-equilibrium Turbulence and<br>Its Application to Flow Control  | Sakai Yasuhiko       | Nagoya<br>University  | Hayase Toshiyuki   | Tohoku<br>University                |
| J15048       | Characteristic simulation of neutral beam etching fabricated nanodisks for new material applications                                  | Li Yiming            | National<br>Chiao-Tung<br>University  | Samukawa Seiji   | Tohoku<br>University                |
| J15049       | Investigating energy conversion and transfer processes in hybrid organic-silicon quantum dot heterojunction devices                   | YU Peichen           | National<br>Chiao-Tung<br>University  | Samukawa Seiji   | Tohoku<br>University                |
| J15050       | Propagation mechanism of streamer in water  | Sato Takehiko        | Tohoku<br>University  | Kanazawa Seiji   | Oita<br>University                  |
| J15051       | Clarification of bubble generation and flow<br>dynamics in the vicinity of an electrode by water<br>plasma                            | Sato Takehiko        | Tohoku<br>University  | Nakatani<br>Tatsuyuki                                      | Okayama<br>University of<br>Science |
| J15052       | Study for Accurate Prediction of Unsteady<br>Aerodynamic Characteristics around Moving<br>Objects                                     | Obayashi Shigeru     | Tohoku<br>University  | Takahashi Shun   | Tokai<br>University                 |

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| Project Code | Project Title  | Applicant                 | Institution   | IFS responsible<br>member or non-IFS<br>responsible member | Institution  |
| J15053       | Fabrication of strained Ge-on-Insulator and device application   | Sawano Kentarou           | Tokyo City<br>University  | Samukawa Seiji   | Tohoku<br>University   |
| J15054       | Numerical Analysis on Supersonic Flow Control using High Repetitive Laser Pulses   | Iwakawa Akira             | Nagoya<br>University  | Obayashi Shigeru   | Tohoku<br>University   |
| J15055       | Ignition Studies of Gaseous Pre-mixtures in<br>Turbulent Flow  | Fursenko Roman            | Far-Eastern<br>Federal<br>University                                | Maruta Kaoru   | Tohoku<br>University   |
| J15056       | Cavity formation mechanism in a cavitation process   | Sato Takehiko             | Tohoku<br>University  | Farhat Mohamed   | Ecole<br>Polytechniqu<br>e Federale de<br>Lausanne<br>(EPFL) |
| J15057       | Characterization of Plastic Deformation using<br>Electromagnetic NDT Methods   | Chen Zhenmao              | Xi'an<br>Jiaotong<br>University                                     | Takagi Toshiyuki   | Tohoku<br>University   |
| J15058       | Numerical and experimental research on active control of self-sustained flow oscillations with sound interaction   | Langthjem Mikael<br>A.    | Yamagata<br>University  | Nakano Masami  | Tohoku<br>University   |
| J15059       | Investigation of inhomogeneous mixing of plasma<br>species in the hybrid-stabilized argon-water arc<br>discharge for subsonic-supersonic quasi-laminar<br>plasma flow regimes                    | Jenista Jiri              | Institute of<br>Plasma<br>Physics<br>ASCR, v.v.i.                   | Nishiyama Hideya   | Tohoku<br>University   |
| J15060       | Energy release dynamics in porous media  | Lutsenko Nickolay         | Far-Eastern<br>Federal<br>University                                | Maruta Kaoru   | Tohoku<br>University   |
| J15061       | Flammability limits of Low-Lewis-number premixed flames  | Minaev Sergey             | Far Eastern<br>Federal<br>University                                | Maruta Kaoru   | Tohoku<br>University   |
| J15062       | Development of Conservative Kinetic Force Method   | Saveliev Vladimir         | National<br>Center of<br>Space<br>Researches<br>and<br>Technologies | Yonemura Shigeru   | Tohoku<br>University   |
| J15063       | Application of Magneto-Rheological Elastomers to energy harvesting   | SEBALD Gael               | Université de<br>Lyon, INSA-<br>Lyon                                | Nakano Masami  | Tohoku<br>University   |
| J15064       | The continuous spectrum in the Moore–Saffman–<br>Tsai–Widnall instability  | Llewellyn Smith<br>Stefan | University of<br>California,<br>San Diego                           | Hattori Yuji   | Tohoku<br>University   |
| J15065       | Predictive kinetic modeling of energy<br>thermalization, chemical reactions, and<br>compression wave formation in non-equilibrium<br>nanosecond pulse discharges in air and fuel-air<br>mixtures | Takana Hidemasa           | Tohoku<br>University  | Adamovich Igor   | The Ohio<br>State<br>University                              |
| J15066       | Generation and transport of chemical species in<br>low-temperature atmospheric plasma for<br>sanitization device   | Shimizu Tetsuji           | terraplasm<br>a GmbH  | Sato Takehiko  | Tohoku<br>University   |
| J15067       | Numerical study on gas lubrication of a textured surface in micro/nanoscale  | Yonemura Shigeru          | Tohoku<br>University  | Bondar Yevgeniy  | Siberian<br>Branch of<br>Russian<br>Academy of<br>Science    |

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| J15068       | Application of Data Assimilation to Aviation Safety<br>System  | Obayashi Shigeru     | Tohoku<br>University  | Jeong Shinkyu  | Kyunghee<br>University                     |
| J15069       | Aerodynamic Design and Optimization of High<br>Speed Transport Aircraft  | Obayashi Shigeru     | Tohoku<br>University  | Bura Romie<br>Oktovianus                                   | Bandung<br>Institute of<br>Technology      |
| J15070       | Development and applications of micro-motors consisting of smart polymer rotor and dielectric liquid                   | Nakano Masami        | Tohoku<br>University  | Zrinyi Miklos  | Semmelweis<br>University                   |
| J15071       | Numerical study of thermal and chemical non-<br>equilibrium effects in<br>near-continuum hypersonic flows              | Shoev Georgy         | Novosibirsk<br>State<br>University                                | Yonemura Shigeru   | Tohoku<br>University                       |
| J15072       | Evaluation of Flow Instability in Tilted Cavity<br>Configuration   | Komiya Atsuki        | Tohoku<br>University  | Daniel Henry   | Ecole<br>Centorale<br>Lyon                 |
| J15073       | Investigation of nozzle flows at low Reynolds numbers  | Bondar Yevgeniy      | Novosibirsk<br>State<br>University                                | Maruta Kaoru   | Tohoku<br>University                       |
| J15074       | Investigation of flame inhibition through radical scavenging mechanisms  | Gubernov<br>Vladimir | Far-Eastern<br>Federal<br>University                              | Maruta Kaoru   | Tohoku<br>University                       |
| J15075       | Development of bio-template process for realizing etching mask of 2D ordered or dispersed array of nanoparticle        | Yamashita Ichiro     | NAIST   | Samukawa Seiji   | Tohoku<br>University                       |
| J15076       | Inactivation of virus by a plasma flow in a closed small vessel  | Sato Takehiko        | Tohoku<br>University  | Oshitani Hitoshi   | Tohoku<br>University                       |
| J15077       | A study of laser thermotherapy using radiation element method  | Sakurai Atsushi      | Niigata<br>University   | Maruyama<br>Shigenao                                       | Tohoku<br>University                       |
| J15078       | Molecular Dynamics Study on Thermal Resistance of Solid-Liquid Interfaces  | Ohara Taku           | Tohoku<br>University  | Shibahara<br>Masahiko                                      | Osaka<br>University                        |
| J15079       | Study of thin films and ribbons of Heusler alloys<br>for the use in energy saving magnetic refrigeration<br>technology | Khovaylo Vladimir    | National<br>University of<br>Science and<br>Technology<br>"MISiS" | Takagi Toshiyuki   | Tohoku<br>University                       |
| J15080       | Measurement-integrated analysis methodology for complex flow systems   | Hayase Toshiyuki     | Tohoku<br>University  | Brandt Luca  | KTH Royal<br>Institute of<br>Technology    |
| J15081       | Theoretical and Experimental Studies of Local<br>Heating Method in Hyperthermia Treatment                              | Maruyama<br>Shigenao | Tohoku<br>University  | Timchenko<br>Victoria                                      | The<br>University of<br>New South<br>Wales |
| J15082       | Study on Radiation Transfer Control by Nano-<br>Micro Structure  | Maruyama<br>Shigenao | Tohoku<br>University  | Vaillon Rodolphe   | INSA Lyon                                  |
| J15083       | Bioheat transfer analysis for cancer treatment and diagnosis   | Maruyama<br>Shigenao | Tohoku<br>University  | Mishra Subhash<br>Chandra                                  | IIT  |

| Project Code | Project Title  | Applicant           | Institution  | IFS responsible<br>member or non-IFS<br>responsible member | Institution                                    |
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| J15085       | Analysis of transport phenomena of oxygen ion in solid oxide fuel cell materials                                   | Tokumasu<br>Takashi | Tohoku<br>University   | Ahn Jeongmin   | Syracuse<br>University                         |
| J15086       | Development of a smart material with cellulose   | Ohta Makoto         | Tohoku<br>University   | Lundell Fredrik  | KTH Royal<br>Institute of<br>Technology        |
| J15087       | Development of a program for Blood flow and cell<br>behaviors based on LBM method                                  | Ohta Makoto         | Tohoku<br>University   | Bastien Chopard  | Geneva<br>University                           |
| J15088       | Research of Friction and Drilling on bio-composite model   | Ohta Makoto         | Tohoku<br>University   | Kapsa Philippe   | ECL  |
| J15089       | Quantum Molecular Analysis for growth of carbon related thin films   | Tokumasu<br>Takashi | Tohoku<br>University   | Sudo Rieko   | Sagamihara<br>Incubation<br>Center             |
| J15090       | Constructing CFD model of marrow flow in an ilium  | Nakayama Toshio     | National<br>Institute of<br>Technology,<br>Tsuruoka<br>College | Ohta Makoto  | Tohoku<br>University                           |
| J15091       | An analysis of thermophysical properties of hydrogen/oxygen mixture at transcritical/supercritical state           | Tokumasu<br>Takashi | Tohoku<br>University   | Tsuda Shin-ichi  | Kyushu<br>University                           |
| J15092       | The effect of surface scattering on the resistance of oxygen transport in catalyst layer                           | Tokumasu<br>Takashi | Tohoku<br>University   | Kinefuchi Ikuya  | Tokyo<br>University                            |
| J15093       | Seminar for next generation sensors for superhigh temperature environment (phase 2)                                | Uchimoto Tetsuya    | Tohoku<br>University   | Sakamoto Toshiaki  | Intelligent<br>Cosmos<br>Research<br>Institute |
| J15094       | Correlation between physicochemical properties of protein signal sequence variation and subcellular transportation | Mukai Yuri          | Meiji<br>University  | Ohta Makoto  | Tohoku<br>University                           |
| J15095       | The Theoretical Modes of the Wake Flow of Road<br>Vehicles   | Lai Chenguang       | Chongqing<br>University of<br>Technology                       | Obayashi Shigeru   | Tohoku<br>University                           |
| J15097       | Seminar for Carbon Fiber Reinforced Plastic (CFRP)   | Takagi Toshiyuki    | Tohoku<br>University   | Ito Hiroshi  | Yamagata<br>University                         |
| J15107       | Measurement of diffusion coefficient through artificial micro and nanopores  | Gary Rosengarten    | RMIT<br>University   | Komiya Atsuki  | Tohoku<br>University                           |
| J15108       | Transport phenomena of nanoscale water droplet in a nano pore  | Tokumasu<br>Takashi | Tohoku<br>University   | Vergne Philippe  | INSA-Lyon                                      |

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| Project Code | Project Title   | Applicant        | Institution                                      | IFS responsible<br>member or non-IFS<br>responsible member | Institution          |
| J15H001      | Optimization of influential factors for practical application of an ornithopter | Ishide Tadateru  | Kisarazu<br>National<br>College of<br>Technology | Obayashi Shigeru   | Tohoku<br>University |
| J15H002      | Hopf bifurcation of 2D driven cavity flows                                      | Iwatsu Reima     | Tokyo Denki<br>University                        | Hattori Yuji   | Tohoku<br>University |
| J15H003      | Image Base Analysis of Aluminum Alloy   | Suzuki Katsuyuki | The<br>Univerisity<br>of Tokyo                   | Obayashi Shigeru   | Tohoku<br>University |

Multiple Collaborative Research Project 2015, IFS, Tohoku University

| Project Code | Project Title  | Applicant              | Institution  | IFS responsible<br>member or non-IFS<br>responsible member   | Institution |
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| J15R001      | Cardiac evaluation of fetal mice by ECG and ultrasound   | Sugibayashi Rika       | National<br>Center for<br>Child Health<br>and<br>Development | Hayase Toshiyuki,<br>Funamoto Kenichi,<br>Ito Takuya   |             |
| J15R002      | Supercomputing and scale modeling of flotsam mixed tsunami   | Ishimoto Jun           | Tohoku<br>University   | Fumihiko<br>Imamura, Kozo<br>Saito, Jean-Yves<br>Cavaille  |             |
| J15R003      | Investigation on advanced medical ultrasound imaging technology  | Tanabe Masayuki        | Kumamoto<br>University                                       | Hayase Toshiyuki,<br>Hashimoto Hiroshi   |             |
| J15R004      | International collaborative research on smart layered materials and structures for energy saving   | Takagi Toshiyuki       | Tohoku<br>University   | Jean-Yves<br>Cavaille, Christian<br>Boller, Jinhao<br>Qiu, Julien<br>Fontaine, Kohl<br>Manfred, Henrik<br>Alfredsson |             |
| J15R005      | Physical insight into Mach reflection transition and its hysteresis in axisymmetric intakes in continuum and rarefied flow conditions for high-speed airbreathing propulsion | Ogawa Hideaki          | RMIT<br>University   | Kiyonobu Ohtani,<br>Sannu Mölder,<br>Evgeny Timofeev,<br>Georgy Shoev,<br>Yevgeniy Bondar                            |             |
| J15R006      | Control of micro culture environment for regenerative tissue engineering   | Fukushima<br>Shuichiro | Osaka<br>University  | Hayase Toshiyuki,<br>Funamoto Kenichi  |             |
| J15R007      | Development of a nanostructure analog memory device for massively-parallel brain-like LSIs   | Morie Takashi          | Kyushu<br>Institute of<br>Technology                         | Samukawa Seiji,<br>Takahashi Yasuo   |             |