

**INDONESIA TORAY SCIENCE FOUNDATION**  
**31st ITSF PROGRAM YEAR 2024**  
**18 Science and Technology Research Grant's Recipients**

No	Proposal Number	Name	Name of Institution/University	Research Title
1	27	<b>Melati Septiyanti, M.T.</b>	National Research and Innovation Agency of Indonesia (BRIN) KST BJ Habibie, Kawasan Puspiptek Serpong, Gedung 456	Enhanced Antioxidant Activity of Sungkai Leaves Extract Using Natural Deep Eutectic Solvents For Anti-aging Treatment
2	32	<b>Dr. Sc. Bangun Satrio Nugroho, M.Sc.</b>	National Research and Innovation Agency of Indonesia (BRIN) KST. B.J. Habibie, Building 452, Serpong	All-graphene iron-air battery: reversible rusting for the next rechargeable battery generation
3	37	<b>Ir. Jindrayani Nyoo Putro, S.T., Ph.D., IPM.</b>	Universitas Katolik Widya Mandala Surabaya Jl. Kalijudan no. 37, Surabaya	The application of durian seed and chitosan as polyelectrolyte complex for bioimaging
4	48	<b>Ika Dewi Wijayanti, S.T., M.Sc., Ph.D.</b>	Institut Teknologi Sepuluh Nopember (ITS) Kampus ITS Sukolilo, Surabaya 60111	Development of electro-spun nanofiber-based polyaniline-linseed oil self-healing coating for anti-corrosion applications
5	71	<b>Syahril Siregar, S.Si., M.Sc., Ph.D.</b>	Universitas Indonesia Department Fisika Gedung F, FMIPA UI, Kampus UI Depok, Beji	Deep Learning-Based Segmentation of Breast Cancer Lesions in Ultrasound Imaging Using U-Net
6	85	<b>Ganies Riza Aristya, S.Si., M.Sc., Ph.D.</b>	Universitas Gadjah Mada Teknika Selatan Street, Sekip Utara, Sendowo, Sinduadi, Kec. Mlati, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281	Yeast Bioengineering for Sustainable Lipid-Based Energy Production from Rhodotorula glutinis
7	89	<b>Dr. Husain, S.Si., M.Si.</b>	Universitas Negeri Makassar Parantambung Campus, Daeng Tata Street, Makassar, South Sulawesi, Indonesia	Advanced Protective Coatings: Fe <sub>3</sub> O <sub>4</sub> NPs/rGO-Infused Paint for Submarine Hulls with Radar Absorption Capabilities
8	100	<b>Dr. Ima Mulyama Zainuddin</b>	National Research and Innovation Agency of Indonesia (BRIN) Gedung BJ Habibie Jl. MH Thamrin, Kebon Sirih, Menteng, Kota Adm. Jakarta Pusat, DKI Jakarta, 10340	Purification and Characterization of Lectin Proteins from Chitosan-coated Banana Musa acuminata and Plantain M. balbisiana as Agglutinin Molecule Candidates to Detect Cancer Biomarkers

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9	103	<b>Dr. Aqwin Polosoro, S.Si., M.Sc.</b>	National Research and Innovation Agency of Indonesia (BRIN) Cibinong Science Center, Jl. Raya Jakarta-Bogor Km. 46, Cibinong, Bogor	Development a Novel Genome Editing Plasmid for SrFT Gene Knockout to Optimize Steviol Production in Stevia rebaudiana
10	108	<b>Adhi Dwi Hatmanto, S.Si., M.Sc., Ph.D.</b>	Universitas Gadjah Mada Sekip Utara, Bulaksumur	Enhancing the performance of chitosan/polyaniline-based quasi solid electrolyte with morphology-dependent TiO <sub>2</sub> nanofillers for dye-sensitized solar cells
11	110	<b>Iwan Darmadi, Ph.D</b>	National Research and Innovation Agency of Indonesia (BRIN) Building 442, BJ Habibie Science and Technology Park (Puspiptek)	Fabrication of Nanoplasmonics-Fiber Optics Sensor: Enabling Ultrasensitive Operando Sensing of Rechargeable Battery Cell
12	120	<b>apt. Candra Dwipayana Hamdin, S.Farm., M.Sc., Ph.D.</b>	Universitas Mataram Jl. Majapahit No. 62, Mataram	Evaluation of Brucea javanica L. Merr Extract Effectivity on Vascular Stenosis Development Post-Endothelial Denudation in Mice
13	172	<b>Dr.Eng. Ir. Yorina Sarah Franscoise Lantang, S.T., M.Eng.</b>	Institut Teknologi Bandung Labtek II, 2nd Floor, Jl. Ganesha 10, Bandung, 40132 Indonesia	Effect of Thermal Aging and Solution Annealing on Sigma Phase Formation and Corrosion Resistance in Super Duplex Stainless Steel UNS S32760
14	176	<b>Dr. Eng. Dani Permana, S.Si., M.Si.</b>	National Research and Innovation Agency of Indonesia (BRIN) Jalan Raya Jakarta-Bogor Km.46, Cibinong	Post-translational Modifications of Staphylokinases from Indonesian Strains of Staphylococcus aureus to Improve their Activity and Affinity Against Plasminogen
15	201	<b>Dr. Lia Aprilia</b>	National Research and Innovation Agency of Indonesia (BRIN) KST BJ HABIBIE, Setu	Non-Invasive Glucose Detection Using Polydopamine-Functionalized Dynamic Microcantilevers
16	202	<b>Ir. Erni Dwi Puji Setyowati, S.T.P.,M.Sc</b>	Universitas Palangka Raya Jl. Yos Sudarso, Palangka, Kec. Jekan Raya, Kota Palangka Raya, Kalimantan Tengah 74874	Formulation of an Ointment Based on Red Palm Oil and Channa striata Fish Oil Extract as a wound healing treatment
17	205	<b>Dr. Windri Handayani</b>	Universitas Indonesia Building E, 2nd Floor, Department of Biology, Faculty of Mathematics and Natural Sciences, Kampus UI	Toxicological Assessment of Biogenic Ag Nanoparticles: Phytotoxicity on Oryza sativa L. (Rice) and Zea mays L. (Corn) and Cytotoxicity on Macrophage Cells
18	313	<b>Dr. apt. Hegar Pramastya</b>	Institut Teknologi Bandung Jl. Ganesa 10, Bandung	Genome Wide Effect of Heterologous Expression of Mevalonate Pathway in Bacillus subtilis