

# Indonesia Toray Science Foundation

29<sup>th</sup> ITSF Program Year 2022

## 18 Science and Technology Research Grant's Recipients

No	Proposal Number	Name	Name of Institution/University	Research Title
1	52	Bernadeta Ayu Widyaningrum, M.Si	National Research and Innovation Agency (BRIN)	3D Macroscopic Carbon Fibril Aerogel Enlace Magnetic with Antimicrobial Response for Oil/ Water Separation
2	56	Morgan Ohiwal, S.P., M.Si	Universitas Muhammadiyah Maluku Faculty of Forestry	Biofertilizer Formulation from Potential Phosphate Solubilizing-Bacteria and Nitroogen-Fixing Bacteria Isolated from the Rhizosphere Area of Linggua Tree (Petrocarpus Indicus Wild.) as Synthetic Fertilizer Analogue with Sageru as Carrier Material
3	60	Ariyanti Suhita Dewi, Ph. D	National Research and Innovation Agency (BRIN)	Metabolite Profiling and Action Mechanisms of Triterpene Glycosides from <i>Holothuria scabra</i> as Antiinflammatory Agents in Lipopolysaccharide-Stimulated RAW 264.7 Macrophages
4	104	Paula Mariana Kustiawan, Ph.D.	Universitas Muhammadiyah Kalimantan Timur	Nanostructured Lipid Carrier-Propolis As A New Candidate Transdermal Delivery For Human Breast Cancer Treatment: In Vitro And In Silico Evaluation
5	134	Isa Nuryana, M. Biotech	National Research and Innovation Agency (BRIN)	Development of Novel Trehalose Synthase and Its Potential for Bioconversion of Trehalose: A Natural Moisturizer for Skin Protection
6	140	Dr. rer. nat. apt. Ni Putu Ariantari, S.Farm., M.Farm.	Udayana University	Antimicrobial metabolites from mangrove-derived endophytic fungus, <i>Cladosporium</i> sp. (SA-L2-1), and chemical diversity enhancement through OSMAC study
7	145	Fina Amreta Laksmi, M.Sc, Ph.D	National Research and Innovation Agency (BRIN)	Enhancing The Enzyme Property Of D-Allulose 3-Epimerase Through Rational Design For Bioconversion of A Non-Caloric Sweetener D-Allulose
8	152	Dr. Julio	National Research and Innovation Agency (BRIN)	Probing the Zee Model of Neutrino Mass via Decay of Heavy Resonance in e-muon Final States

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9	157	Ario Betha Juanssilfero, Dr. Eng., M.Sc.	National Research and Innovation Agency (BRIN)	Lactones Production from Non-hydroxylated Fatty Acids as the Valuable Bioflavor and Fragrance Through Engineering $\beta$ -oxidation Pathway of Oleaginous Yeast
10	162	Dr. Husain, S.Si., M.Si.	Universitas Negeri Makassar	The Structural, Magnetic, dan Electromagnetic Wave Absorption of Fe <sub>3</sub> O <sub>4</sub> NPs/rGO from Natural Resources: a New Potential Candidate for Electromagnetic Absorption Materials.
11	169	Ekavianty Prajateljista, S.T.,M.S.Eng.,Ph.D.	Institut Teknologi Bandung	The Dominant Role of Sodium Alginate as a Binder on Aqueous Zinc Ion Battery with ZnMn <sub>2</sub> O <sub>4</sub> Cathode
12	175	Dr. Adam Badra Cahaya	Universitas Indonesia	Modeling of Electrical Control of Exchange Bias for Efficient Magnetic Recording
13	215	Dr. Eng.Sari Dewi Kurniasih Indrawan	Institut Teknologi Bandung	Purification and Characterization of Multimeric Bann-RBD Fusion Protein as A COVID-19 Vaccine Candidate
14	223	Aisyah Hadi Ramadani, S.Si., M.Sc	Universitas Muhammadiyah Lamongan	Microbiome analysis in Fruit Garbage Enzyme (Ecoenzyme) Using Next-Generation Sequencing (NGS) to Optimize The Enzyme Role as Biocatalyst for Remediation of Crude-Oil Contaminant in Water
15	228	Dr. Murni Handayani, S.Si, M.Sc	National Research and Innovation Agency (BRIN)	Development Graphene Quantum Dots (GQDs) derived from corncob biomass waste for electrochemical sensor for determination of painkiller drug 'acetaminophen' in pharmaceutical waste
16	248	Anggia Prasetyoputri, MSc, PhD	National Research and Innovation Agency (BRIN)	Using ribosome engineering to optimize the production of antibacterial metabolites from Indonesian marine Streptomyces

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17	249	Dr. Fajar Sofyantoro	Universitas Gadjah Mada	Expression of SIR2, GPX1, and GLR1 Genes in <i>Saccharomyces cerevisiae</i> upon Treatment with Anti-Aging Compounds from Pacar Cina ( <i>Aglaia odorata</i> ) and Beluntas ( <i>Pluchea indica</i> ) Leaves
18	264	Mokhamad Nur Cahyadi, S.T., M.Sc., PhD	Institut Teknologi Sepuluh Nopember	Analysis of Preseismic and Coseismic Ionospheric Disturbances in the Maumere Earthquake on December 14, 2021 and the Alaska Earthquake on July 29, 2021 with the 3D Tomographic Method as a Tsunami Early Warning System (TEWS)