

Indonesia Toray Science Foundation

31th ITSF Program Year 2024

Science and Technology Award's Applicants' List

No	Name	University	Field of Focus	Research Title
1	Prof.Dr.rer.nat. Arli Aditya Parikesit.,S.Si.,M.Si.	Indonesia International Institute for Life Sciences	Genomics, Bioinformatics, and Transcriptomics	Genomics Surveillance of Pathogens as Prerequisite for Developing Detection Methods of New Microbe Variants
2	Edi Kurniawan, Ph.D.	National Research and Innovation Agency of Indonesia (BRIN)	Advanced Control Systems and Applied Artificial Intelligence	Advanced Control Systems for High-Precision Tracking in Servomotor-Based Applications and AI-Driven Solutions for Physical Distancing Monitoring During COVID-19
3	Nicolaus Nezha Nunez Mahasti, S.T., M.Sc., Ph.D.	National Research and Innovation Agency of Indonesia (BRIN)	Advanced Water Treatment Technology, Chemical Oxo-Precipitation, Fluidized-Bed Homogeneous Crystallization, and Advanced Oxidation Process	Application of Multi-Stage Calcium-Based Chemical Oxo-Precipitation Technology to Remove Boron from Flue-Gas Desulfurization Wastewater
4	Gregorio Antony Bani, S.Si., M.Si.	Aryasatya Deo Muri University	Chemistry	Pyrolysis of Polyethylene from Plastic Waste using Activated Ende Natural Zeolite as a Catalyst
5	Muthia Miranda Zaunit, S.Pd., M.Si.	Universitas Perintis Indonesia	Microbiology	Utilization of Endophytic Bacteria from Pauh (<i>Mangifera sumatrana</i> Miq) to Produce Bioactive Compound that Have Potential as Antibiotic Candidate
6	Dr. Muhammad Amin, S.Si., M.Eng.	Khairun University	Separation Systems Development in Ion Chromatography and Its Applications	High-End Ion Chromatographic Analysis of Anionic and Cationic Components in Pre-blast and Post-blast Residues of Pyrotechnic Samples
7	Lela Susilawati, S.Pd., M.Si., PhD	State Islamic University (UIN) Sunan Kalijaga Yogyakarta	Agricultural Microbiology	Diversity of Skin Microbiota In Indonesian Frog and Its Potential Against Phytopathogenic Fungi
8	Arramel, Ph.D	Nano Center Indonesia	Nanotechnology and Nanoscience in energy, sensing, water purification, and material design applications	Scientific and technological advances in low-dimensional materials for energy and water remediation towards sustainable society
9	Suhendri, S.T., M.Sc., Ph.D.	Bandung Institute of Technology (ITB)	Passive cooling of buildings	Combination of Radiative Cooling with Solar Energy Application in Buildings and Its Surroundings
10	Dr. Eng. Ufafa Anggarini, S.Si., M.Si.	Universitas Internasional Semen Indonesia	Development of metal-coordinated aminosilica networks for highly permeable and selective membrane separation	Organosilica-based coordination polymers: A new concept for fine-tuned membrane porosity.
11	Birgitta Narindri Rara Winayu, Ph.D.	Atma Jaya Catholic University of Indonesia	Biotechnology (Environmental biotechnology)	Cultivation of <i>Thermosynechococcus</i> sp. CL-1 for CO ₂ fixation, heavy metals (Cd and Pb) removal, and phycocyanin production

Indonesia Toray Science Foundation

31th ITSF Program Year 2024

Science and Technology Award's Applicants' List

No	Name	University	Field of Focus	Research Title
12	Dodi Safari, S.Si., Ph.D.	Eijkman Research Center for Molecular Biology,	Bacteriology, Genomics, antibiotic resistant, and vaccine impact	Development of New Pneumococcal Serotyping Based on CRISPR/Cas9 Targeted Sequencing
13	Ir. Lindung Zalbuin Mase, S.T., M.Eng., Ph.D., IPM., ASEAN Eng.	University of Bengkulu	Geotechnical Earthquake Engineering	a capital city of the regency
14	drg Silvia Anitasari, SH., M.Si., Ph.D	Mulawarman University	Dental Material and technology; Mikrobiologi	1.The influence of mineralization on the bone matrix as an induction signal for osteoblast cells. 2. Analyze the influence of chemical elements on the biocompatibility of osteoblast cell migration (MC3T3-E-1) in hydroxyapatite extract from blood clam and snail shells 3. CFD modeling and prediction fluids in PCL and graphene scaffolds based on Fugaku Supercomputer
15	Ocky Karna Radjasa, PhD	National Research and Innovation Agency of Indonesia (BRIN)	Marine Microbiology	Bioprospecting of Indonesia's marine treasures: From shallow coral reefs to deep-sea
16	Prof. A. M. Shiddiq Yunus., S.T., M.Eng.Sc., Ph.D	State Polytechnic of Ujung Pandang	Renewable Energy	Application of Superconducting Magnetic Energy Storage in Improving the Performance of Wind Turbine Generator-Grid Connected during Various Types of Faults and Disturbances.
17	Prof. Aldes Lesbani, Ph.D	Sriwijaya University	Inolnorganic material for environmental applications	Reconstruction of Layered Double Hydroxides (LDHs) for Adsorption and Photocatalytic Applications
18	Prof. Dr. Heny Herawati, STP. MT.	National Research and Innovation Agency of Indonesia (BRIN)	Post Harvest Technology	Enhancing the Value Addition and Competitiveness of Local Raw Materials Through the Optimization of Agroindustry Technology Implementation in Indonesia.
19	Lianah	FST UIN WALISONGO SEMARANG	Tumbuhan obat	Antioxidant Activity of Bauhinia scandens Ethanol Extract
20	Prof. Dr. Jamari, ST, MT, IPU	University of Diponegoro	Bio-mechanics	Design and Development of Dual Mobility Total Hip Prosthesis Accommodate Muslim Prayer Movements
21	Prof. Mokhamad Nurcahyadi, ST, M.Sc, Ph.D	Sepuluh Nopember Institute of Technology	Global Navigation Satellite System	Multi Aspects of Satellite Technology Global Navigation Satellite System (GNSS) For National Progress and Independence
22	Wireni Ayuningtyas, I.AS, S.Si, M.Kes	PT Bio Farma	Stem Cell	Acceleration of Wound Healing Using Secretome of 3-Dimensional human Umbilical Cord derived-Mesenchymal Stem Cell Therapy as Investigational New Drug