

INVITATION

Online Seminar of Science and Technology



Scientists and Technologists are invited to attend the “ITSF Seminar on Science & Technology” where research result of 18 Science & Technology Research Grant Program Year 2023’s recipients will be presented

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The Online Seminar will be held on:

Day/Date : **Saturday, 11 January 2025**
Time : **08.00 – 17.00 Western Indonesian Time**

Session A



Session B



Session C



REGISTRATION RULES

- To register, please scan the QR-Code or visit this link:
Session A (bit.ly/ITSFSTRGSessionA2025), Session B (bit.ly/ITSFSTRGSessionB2025), Session C (bit.ly/ITSFSTRGSessionC2025)
- Registration must be done before **Thursday, 9 Jan 2025** based on the first comes first serve basis.
- The maximum quota are 100 participants, the registration will be closed, and you will not receive email confirmation,
- Seminar participants will receive Zoom Webinar Link after re-registration.**
- The seminar participants must attend the entire webinar to qualify for digital certificate (join from opening until closing)

Speakers of Session A
Life Sciences & Agricultural Sciences
Ata Aditya Wardana, S.TP., M.Si., Ph.D. (Bina Nusantara University) Investigation of Quality and Safety Improvements in Traditional Food Products via Nanocomposite Coatings on Packaging Made from Indonesian Indigenous Leaves
Dr. Eng. Wahyu Ramadhan, S.Pi., M.Si. (Institut Pertanian Bogor) Constructing Oleogel-Structured Emulsion (OGE) in Surimi Analogues Product Containing Omega-3 LCFAs to Support Long-Term Bioavailability and Precise Nutritional Intervention: In Vitro Evaluation
Katherine, Ph.D. (Indonesia International Institute for Life Sciences) Development of Red Fruit Oil Co-crystal with Different Sugar Substitute as a Potential Healthier Food Colorant Alternative in Aqueous Food System
Robertus Wahyu Nayan Nugroho, Ph.D. (BRIN) Modified chitin nanocrystals as a glucose sensing device (MOCHINTOSE)
Dr. Fahrizal Yusuf Affandi (Universitas Gadjah Mada) Application of active-Modified Atmosphere Packaging (a-MAP) based on Oxygen Absorber to reduce Chilling Injury (CI) in tomatoes (<i>Solanum Lycopersicum</i>)
Siti Eka Yulianti, M.Si. (BRIN) Development of Neoagarooligosaccharides β -agarase from <i>Streptomyces</i> sp. Isolated from Marine Sediment as A Novel Skin Whitening and Moisturizing

Speakers of Session B
Physical & Engineering Sciences
Ardi Wiranata, S.T., M.Eng., Ph.D. (Universitas Gadjah Mada) Development of Low-Hysteresis and High Reliability Stretchable Conductive Materials using Rapid Prototyping Method for Wearable Devices
Ferry Anggoro Ardy Nugroho, B.Eng., M.Sc., Ph.D. (Universitas Indonesia) Shedding Light on the Electrochemical Process: Operando Optical Tracking of Hydrogen Evolution Reactions in Model Oxide Thin Films
Dr. Robby Roswanda (Institut Teknologi Bandung) Modified Isolonchocarpin via Photoisomerization and Photocyclization as a Precursor of Aromatic O-heterocycle-based Photosensitizer
Dr. Muhandis Shiddiq, S.Si., M.Sc. (BRIN) Nanoparticle-Enhanced Laser Induced Breakdown Spectroscopy for Rapid and Sensitive Determination of Heavy Metal Content in Foods
Retno Agnestisia, S.Si., M.Sc., Ph.D. (Universitas Palangka Raya) Eco-friendly and High-Performance Biocatalyst for Textile Dye Waste Removal: Laccase Immobilization on Magnetic Fe ₃ O ₄ @Cellu@UiO-66 Nanocomposite
Dr. Sasfan Arman Wella (BRIN) Impact of Graphene Edges on Stability and Performance of Dual-atom Catalyst (XY=Fe,Mn)-N ₆ for Oxygen Reduction Reaction: A combined DFT, Machine Learning, MD, and Microkinetic Study

Speakers of Session C
Chemistry Chemical Engineering & Biotechnology
Pramesti Istiandari, S.T., M.Eng., Ph.D. (Indonesia International Institute for Life Sciences) Unveiling High-Value Triterpenoid Biosynthesis in Medicinal Legume <i>Abrus Precatorius</i> through Transcriptomic Analysis and Methyl Jasmonate Treatment
Dr. Ariel Pradipta, M.Res., Ph.D. (Universitas Indonesia) Changes of High Sensitive-C Reactive Protein and Inflammatory Cytokines in Elderly Coronary Artery bypass Surgery Patients Hospitalized in ICU
Dr. Ni Luh Wulan Septiani (BRIN) Bimetallic Metal Organic Framework for Highly Sensitive and Selective Dengue Virus Electrochemical Biosensor
Dr. Dwi Haryanti, S.Kel., M.Sc. (Universitas Diponegoro) Understanding the Microbiome of Atramentous Necrosis disease (AN) infected coral species in Alang-alang Water, Karimunjawa, Indonesia
Dwi Ariyanti, Ph.D. (Universitas Teknologi Sumbawa) Unravel the Potential of Biosynthetic Gene Cluster from Soil-derived Actinobacteria of Sumbawa Island, Indonesia
Karlia Meitha, Ph.D. (Institut Teknologi Bandung) Deletion of miRNA 2059 gene from chili (<i>Capsicum annum</i>) by CRISPR/Cas9 genome editing to improve tolerance to pathogens