

ARCHIPELAGO BIOTECHNOLOGY INDONESIA

**Harnessing The Power of Extreme Microbes for
Sustaining Nature Through Circular
Bioeconomy**

Supported by:



Sumbawa Techno Park
When Collaboration Meet Values



FAKULTAS
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HAYATI



PERTAMINA
FOUNDATION

Welcome to
**Archipelago Biotechnology
Indonesia**

Archipelago Biotechnology Indonesia (Aka. Archi Biotech) is a microbial biotechnology start-up that based in The Sumbawa Island, West Nusa Tenggara Province, Indonesia.



About Our Company

Archipelago Biotechnology Indonesia (Aka. ARCHI BIOTECH) is a microbial biotechnology start-up company based in The Sumbawa Island, West Nusa Tenggara Province, Indonesia. We aim to democratize the use of personalized microbial solutions (e.g., microbiome engineering) to tackle various problems related to health, food, agriculture, renewable energy and environment. Our company have been working very closely together with academics, business, government, media and various local communities in developed and applied a wide range of products and services, including Covid-19 environmental surface testing kit, biofertilizer (bacteria that promote plant growth) to improve soil health in arid arable land, probiotics cocktail for improving the health status of coral reef, advanced microbial cellulose for future biomaterials (artificial leather for fashion industry), bacterial starters to produce a healthy fermented foods & beverages, microbial seeds to accelerate biogas productions, and many more. At Archi Biotech, we not only design each project according to the client's needs, but also ensure the sustainability of the natural environment, the fairness of access benefit-sharing to the local communities and promoting the circular economy.



Our Vision & Mission

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To sustain nature and make a difference in the lives of people through our innovative products and services, we are committed to being the premier, research-intensive microbial biotechnology start-up and are dedicated to providing leading innovations and bringing the great impact to the local communities.

At Archi, our mission is to harness the power of microbes for sustaining natural environments and improving the locals' quality of life through circular bioeconomy.

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Our Value

QUALITY

Committed to delivery of products and services of exceptional quality, exceeding the expectations of our costumers, partners and shareholders.

COSTUMER/PARTNER FOCUS

Dedication to our customer/partner expektations and ambitions through our decisions and actions.

PROFESSIONALISM

Unsurpassed scientift, technical and business capabilities in service to our costumers, partner and employees.

INTEGRITY

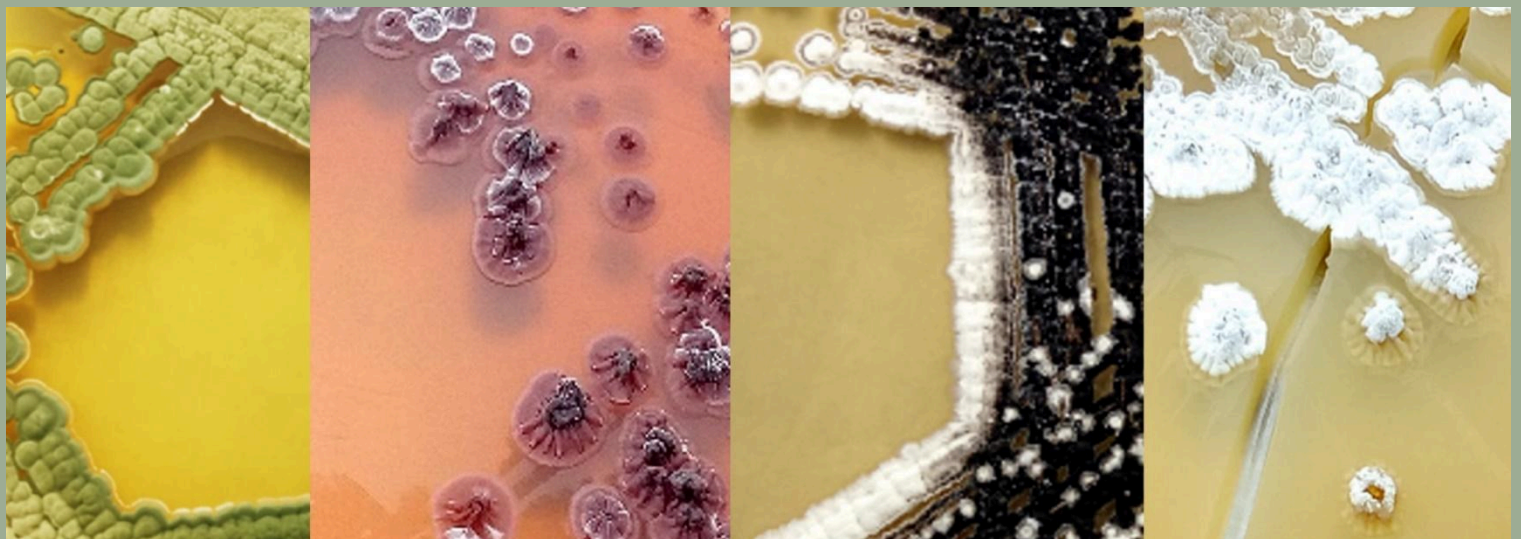
Achieve the highest of ethical standars in all that we do.

PERFORMANCE

Excel at developing and providing innovative products and services, exceeding our commitments to all our stakeholders, partners and customenrs.

ENVIRONMENTAL RESPONSIBILITY

Competitive commercial-scale manufacturing in an environmentally sound manner through democratizing biotechnology.





Our Team



Ali Budhi Kusuma, Ph.D (Alidi)
Chief Executive Officer (CEO)

Accomplished his Ph.D in Extreme Microbiology from Newcastle University in the U.K., he has more than 10 years' experience in the field of microbial biotechnology field, notably development of microbial products for various industrial applications. Dr. Alidi has an accomplished profile where he was awarded Hero of Earth in Global Environmental Award 2022,

Alumni Achievement Award: Alumni Impact in Pride of Newcastle University 2022 and chosen by The Conversation Indonesia as one of Science Leadership Collaborative 2022/2023. Currently, Dr. Alidi is serving as the Dean of Faculty of Life Sciences and Technology at the Sumbawa University of Technology of Indonesia. He is also contributing his expertise as the Manager in The Department of Research, Innovation and Development at Sumbawa Technopark.



Maya Fitriana, Ph.D (Maya)
Chief Technological Officer (CTO)

Dr. Maya accomplished her Ph.D. from Tokyo University of Agriculture and Technology in Japan majoring in Life Sciences and Biotechnology. She has numerous experiences in developing and implementing various ideas about product technological development, as exemplified by her experience she develops electrochemical enzyme sensors based on oxidoreductases

during her study. She is currently serving as a Faculty Secretary in The Faculty of Life Sciences and Technology at Sumbawa University of Technology.



Lia Utami Ningrum (Lia)
Chief Sales Officer (CSO)

Ms. Lia earned her bachelor's degree from University of Indonesia majoring in Business Administration. After completing her study, she worked at Bank Mandiri Prioritas for customer relationship positions from 2008 to 2014, the place where she was exposed for the first time to the sales department. She continued her career as a sales manager at PT. NHH Construction from 2018 until May 2022.



Gita Fenylestari, S.Biotek (Gita)

Chief Production Officer (CPO)

Ms. Gita earned her bachelor's degree at the Department of Biotechnology at Sumbawa University of Technology. Her experience as the production officer has resulted from her working experience upon her bachelor's graduation. She worked in PT. Bio-Greenland, a Japanese company that produces castor oil for biofuel in Sumbawa Besar region, for almost two years in

The Production team, notably as castor bean quality control, then continued her career at CV. Restu Sejati managed finance and flat corn quality control for almost two years. Currently, she is working at Sumbawa Technopark as a research assistant at the Agroindustrial Biotechnology laboratory.



Fahmi Dwilaksono, S.Biotek., M.S. (Fahmi)

Chief Marketing and Partnership Officer (CMPO)

Mr. Fahmi completed his master's degree from the Department of Biosystems and Agricultural Engineering at Michigan State University in the U.S. He is passionate about renewable and green energy, ecotourism, and social entrepreneurship. His ultimate dream is to build a zero-waste agriculture

and farming industry in Sumbawa. He was awarded various scholarships in Japan and the United States, where he developed his skills in promoting science and expanding the networks to potential business partners. Currently, he is serving as the Coordinator of International Students Academic Experience at Sumbawa University of Technology.



**Adelia Elviantari, S.Biotek.,
M.Si (Adel)**

*Chief Asset and Financial Officer
(CAFO)*

Ms. Adel earned her master's degree from the Department of Biotechnology at IPB University. She was working on overexpression of lipase in *E. coli* by signal peptide and promoter optimization during her thesis research. Her previous appointments in managing assets and finance

for the team. She is currently serving as the Head of Department of Biotechnology at Sumbawa University of Technology. She ever won the Entrepreneur Program "One Stop Souvenir Center" based Social Enterprise. She is also involved in several research projects during 2022, such as identification of pathogens in lobster and bacteria isolation that produce oxidoreductase from Kaung island of Sumbawa.

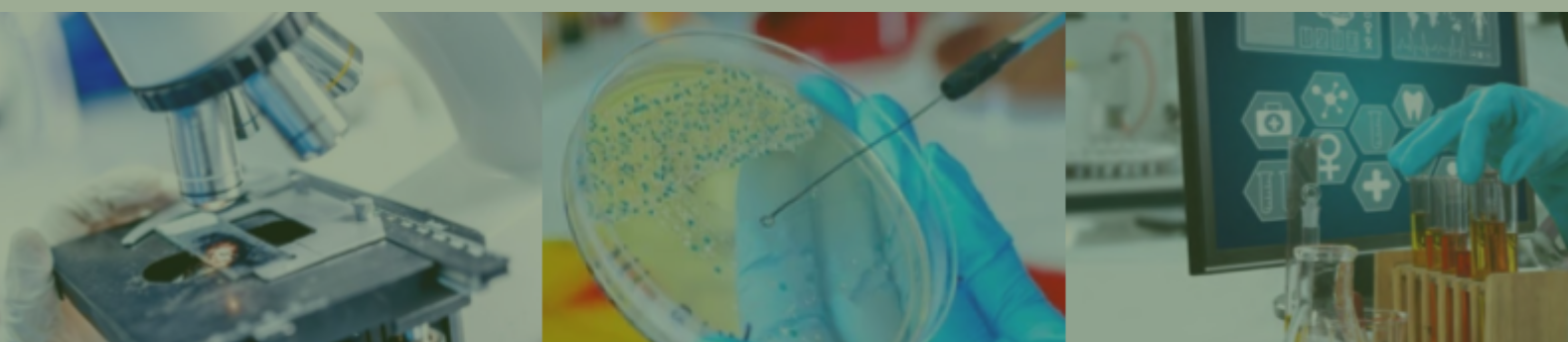


**Leggina Rezzy Vanggy,
S.Biotek (Leggina)**

*Chief Administration and Human
Resources (CAHRO)*

Ms. Leggina earned her bachelor's degree from the Department of Biotechnology at Sumbawa University of Technology. Currently she is working as a junior researcher at Sumbawa Technopark. She recently had opportunities to join in the administration team for the microbial

exploration projects of microbial bioresources ex the Mount Tambora and Saline Lake in the Kakaban Island, Borneo under the supervision of Dr. Alidi with the funding from the National Research and Innovation Agency.



Products & Services

COVID 360 Rapid Test Surface Testing



"Clean Surface, Healthy People"

Covid 360 Rapid Test Surface Testing

This product is a surveillance system and rapid detection of the SARS-COV-2 virus on various solid surfaces using lateral flow transfer technology in various public facilities. This innovation has never been done in Indonesia or West Nusa Tenggara Province in particular. Covid 360 Rapid Test Surface Testing detects the presence of COVID-19 virus particles on the surface of objects with accurate results, fast detection time (10-15 minutes), user-friendly, and economical prices for all people.



Xero-Fertilizer

A new way to promote a green economy for sustainable arid land agriculture. Xero-Fertilizer can boost soil fertility, improve water management in arid soil, accelerate crop productivity, and increase plant tolerance to drought stress.



Plaster (Plastic Degrading Bacterial Starter)

Plaster contains thermophilic bacteria (*Bacillus* sp. CSLK01-51) that is scientifically proven to help the plastic degradation process without harming the environment.



Coralove

Coralove uses Coral Associated-Microorganisms probiotic bacteria that provide stress relief and enhance the stress resistance of corals. Coralove restores and maintains a balanced corals environment, promoting beneficial bacteria while reducing the number of bad bacteria resulting in a cleaner, healthier corals and less-stressful environment



RiCeSolution

As a solution for Rice health, RiCeSolution contains Azadirachta extract, probiotics starter, and Carica papaya leaf that can enhance rice growth, act as fungicide and bioinsecticide which is good to cure brown leaf spot, bacterial leaf blight, stem rot, and caterpillar pest



AWARDS AND RECOGNITIONS

Archipelago Biotechnology Indonesia has recently become the grant recipient of Pertamina Foundation (PF) Muda 2022 through Covid 360 product.



Besar, Nusa Tenggara Barat 84316, Indonesia

