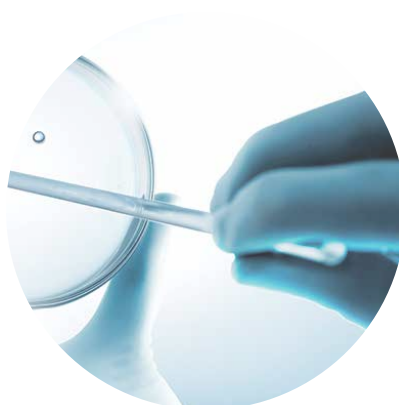




EcoBizNet Inc. pursues  
a clean environment and people's healthy life.

# Microbial Business Global Leader



**EcoBizNet**

**Ecobiznet Inc.**

## CEO Message

We at EcoBizNet  
constantly challenge ourselves.

# EcoBizNet



As a microorganism company founded with the philosophy of contributing to a clean environment and people's healthy life, EcoBizNet develops and provides various microorganisms that suit the needs of customers. We have grown by providing microorganism products through continuous R&D since our foundation in 2000, and developed a microorganism culture system (seed, culture medium, culture fermenter) so that customers can use the microorganisms in primary industries (agriculture, livestock, aquaculture) and environmental fields more effectively and at lower prices. Our brand CellAct, a microorganism culture system, has been recognized in foreign markets as well as the Korean market with high utilization in various fields, such as plant factories and organic waste recycling.

Unlike other microorganism companies which produce, distribute, and sell finished microbial products, EcoBizNet has built a franchise business model through which local agricultural companies worldwide can easily produce various microorganisms and sell them to customers on the business platform for a microbial culture system.

Our performance had been on the rise thanks to great responses from customer in Korea and abroad, and based on it we are growing into a small yet strong global company.

EcoBizNet will always make its best efforts for customer satisfaction by improving our competitiveness through ceaseless innovation and securing of core technologies and will never forget our goal of becoming the best microorganism company for customers and the environment.

Thank you.

Cho Jeongsub, CEO of EcoBizNet



**EcoBizNet**

**Ecobiznet Inc.**

The C.I of EcoBizNet means air, water, and soil. It expresses our will to contribute to a clean environment and people's healthy life, and to contribute to the world and human society.

## MISSION of EcoBizNet

We contribute to a clean environment and people's healthy life.

## VISION of EcoBizNet

We pursue the world's most competitive company in biology and environment.

### CORE VALUE



Value  
creation



Customer  
orientation



Quality  
focus



Talent  
focus

### STRATEGIC MEASURE

Strengthening of  
R&BD competence

Enhancement of  
marketing  
competitiveness

Advancement of  
production system

Establishment of  
system management

### STRATEGIC TASK

- Value-creating R&D
- Securing intellectual property rights for new developments
- Establishing of R&D network
- Leading change and discovering of new business

- Customer creation-driven financial performance
- Local focus marketing
- Exploring/establishment of overseas sales network
- Developing of customized services

- Strengthening of improvements and innovative activities
- Increasing of production efficiency
- Improving of production process
- Strengthening of production support system

- Realizing of quality management
- Workplace culture of cooperation/communication
- Securing talents and enhancing their competences
- Ensuring of performance-based rewards system



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What our teams  
are doing

E C O B I Z N E T

# Microbial Business Global Leader

EcoBizNet



## Management Innovation Team

It tries to improve corporate management system to ensure the top-quality products and company's good reputation.



## R&D Center

It develops new technologies and products to secure the company's mid and long-term growth engine and seeks agile introduction and transfer of technology to promptly respond to current issues.



## System Project Team

It responds actively to customer's requests, B/S and A/S to ensure quality maintenance of microorganism culture system, and continuously upgrades the product performance.



## Marketing Team

It develops PR, sales promotions, and events for enhancing the values of the company and products, and realizes customer satisfaction by identifying the needs and wants of customers at home and abroad.



## Technology & Production Team

It focuses on producing microorganism products beyond the customer's needs, and pursues best efficiency and effectiveness through the implementation of thorough production process.



## Business Support Team

It supports the physical and human resources to make business proceed as planned in production, sales and marketing, and conducts a thorough and planned financial management.

# History

We contribute to a clean environment and people's healthy life.

- 2000** Established Doosan EcoBizNet
- 2004** Signed an MOU in the environment and biology with Johor, Malaysia, and UTM University
- 2006** Established an R&D center  
Developed an organic shrimp farming program
- 2007** Acquired 2007 ISO9001/2000 certification  
Completed the registration of a factory
- 2008** Acquired INNOBIZ certification  
/ Registered as an environmental consulting company
- 2009** Acquired venture company certification  
Signed an MOU for bio business with Gangwon-do Agricultural Research & Extensions Services
- 2010** Registered as a feed manufacturing company
- 2011** Registered as a fertilizer producing company  
Selected as a Promising Small and Middle Sized Company by Gangwon authority  
Selected as Gangwon IP Star Company
- 2012** Signed a distribution contract with Chinese agencies
- 2013** Designated as a promising export company
- 2014** Acquired a certificate for improving the water quality of reservoir  
Received a certification for Good Company in Employee Invention Compensation  
Developed smart microbial fermenter "CellAct-F Series"
- 2015** Acquired electrical appliances safety certificate for smart microbial fermenter  
Certified as an SME with Outstanding Employee Development Program
- 2016** Registered products in Public Procurement Service shopping mall and organized a national consultative group  
Received a certification for Good Company in Employee Invention Compensation again
- 2017** Certified as a global IP Star Company / CEO changed
- 2018** Certified as a best practice in Intellectual Property Management  
Changed company name from Doosan EcoBizNet to EcoBizNet  
Started to export a CellAct system to Thailand, New Zealand, Vietnam, and so on.  
Established the Jeongeup branch of the Center for Industrialization of Agricultural and Livestock Microorganisms.  
Obtained Excellent Performance Certification (EPC) for smart microbial fermenter by the Ministry of SMEs and Startups  
Certified as a Management Innovation-Oriented Small and Medium Enterprise (Main-Biz)  
Selected as Government Performance Assured (G-PASS) company
- 2019** Acquired a Q mark for smart microbial fermenter

# Certificates

E C O B I Z N E T



Venture company



Inno-Biz



Main-Biz



ISO



Excellent Performance  
Certification (EPC)



Intellectual Property  
Management



G-Pass company



Q mark

# Global Microbial Business Leader

## History of Awards



- 2018 Grand prize, at the Gangwon Small and Medium-sized Company Awards
- 2018 Management Assessment Award by the Chuncheon Bioindustry Foundation
- 2018 Export Contribution Citation by the Rural Development Administration
- 2018 Intellectual Property Management Award by the Korea Invention Promotion Association (KIPA)
- 2018 Citation by the Gangwon Provincial Council
- 2017 Gold prize from the GTI Expo
- 2016 Management Assessment Award
- 2015 Citation from the mayor of the Chuncheon City, Gangwon-do
- 2014 Citation from the Ministry of SMEs and Startups
- 2013 Biological Engineering Researcher Award
- 2013 Citation from the Gangwon Provincial Council
- 2012 Employee Invention Compensation Award
- 2011 Grand prize in R&D Performance category by Gangwon Province
- 2011 Selected as Gangwon's Top 10 Inventions
- 2011 Excellent Venture Company
- 2010 Citation at the Saemangeum Water Quality Improvement Idea Competition



# Intellectual property rights

## Technology patents

### Microorganism patents

No.	Patent name	Registration No.
1	Novel Kluyvera intermedia DS-EBN-GBI and microbial agent comprising the same	10-1136480
2	New Rhodobacter sphaeroides DAA2 and uses thereof	10-1200235
3	Immunity reinforcement lactic acid bacterial strain and lactic acid bacterial preparation containing the same	10-1201447
4	Bacillus thuringiensis HARI042 having insecticidal effect to Lepidoptera, an endotoxin protein produced by the same, and an insecticide comprising the bacteria or the endotoxine	10-1239239
5	Bacillus amyloliquefaciens EBN-TK3, antibiotic or antifungal agent thereof	10-1390457
6	Alcaligenes faecalis EBN-NS13 (KCTC 12471BP) having excellent ability of nitrification and denitrification)	10-1418710
7	Novel strains of Rhodobacter azotoformans and microbial fertilizer comprising the same	10-1475016
8	New microorganism Bacillus methylotrophicus GH1-13 and Microbial agent and biopesticide containing the same	10-1667541
9	Streptomyces panaciradicis AF34 strain for the degradation of aflatoxin	10-2005433
10	Bacillus subtilis AF11 against Aspergillus flavus strain producing aflatoxin	10-2015822
11	Streptomyces lavendulae EBN-JS669 with excellent mycotoxin degrading activity	10-2005434
12	Bacillus subtilis EBN-YR47 having excellent inhibitory activity against mycotoxin-producing fungi	10-2015823

### Smart microbial fermenter patents

No.	Patent name	Registration No.
1	A culture medium for microorganism	10-0928088
2	Culture device	10-1534114
3	Culture device with UV lamp	10-1537379
4	Microorganism cultivating apparatus and operating method thereof	10-1567140

## Design patent

6 patent applications and registered designs, such as microorganism fermenter or labels

## Trademark patent

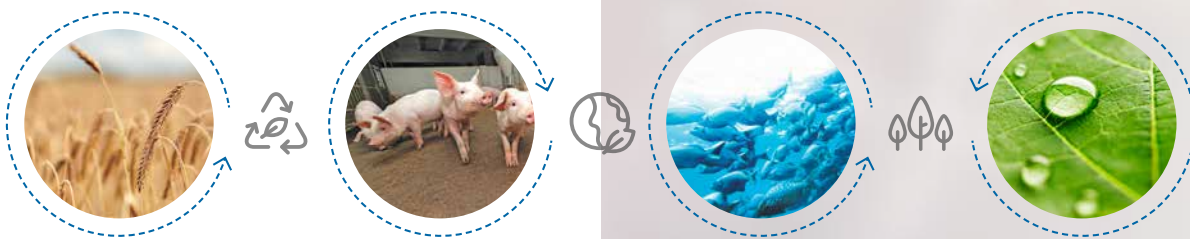
14 registered patent trademarks such as CellAct. Application and registration of trademark patent are underway in Vietnam, India, China, Thailand, Australia and the US.

## Patent pending

10 patents related to microorganism and fermenter are underway.



# We contribute to a clean environment and people's healthy life.



## Agriculture



- Reduction of fertilizer and agricultural pesticides
- Soil improvement
- Reduction of crop disease
- Improvement of disease tolerance
- Sugar content and quality improvement
- Increasing of crop yields
- Promotion of compost decomposition

## Aquaculture



- Improvement of fish color and quality
- Strengthening of nutrition and immunity
- Increasing of survival rate
- Purification of water quality
- Improvement of disease tolerance
- Culturing of live feed

## Livestock



- Reduction in the use of feed and antibiotics
- Prevention of harmful insects and disease
- Improvement of pen environment
- Improvement of meat quality
- Enhancement of nutrition and immunity

## Environment



- Decomposing of organic matter
- Purification of water quality
- Removal of odor
- Manufacturing of compost
- Treatment of excrement and recycling as a liquid fertilizer



## | Agriculture |



**AgroBacta**

### **Roles of Microorganisms in the Agriculture**

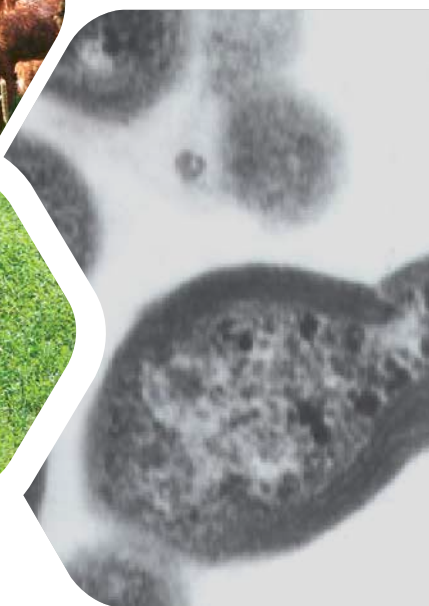
Microorganisms have excellent soil resilience and are useful for crop growth. They make crops and soil environments healthy by minimizing the use of chemicals such as fertilizer or agricultural pesticide and creating optimal crop growth environments.

Also, they decompose non-biodegradable organics to turn them into a nutrition source, offer a natural fertilizer by fixing nitrogen on them in the air, and protect crops by inhibiting the proliferation of pathogen, thereby setting the foundation for eco-friendly agricultural environment.

### **Major Effects**

- Promote composting by decomposing organic matters and solubilizing non-biodegradable organics.
- Effective for soil improvement through pH calibration or resolving replant failure by improving soil fertility.
- Promote the growth of plants and inhibit the growth of pathogens and eelworms.
- Contribute to sugar content and quality improvement through balanced nutritional supply.

## | Livestock |



**EcoBacta, EcoFidUp**

### Roles of Microorganisms in the Livestock

Useful microorganisms inhibit enterotoxins, improve immune function, and increase productivity of livestock through the production of digestive enzymes, and build a pleasant pen environment by reducing harmful gas and bad odors such as ammonia and hydrogen sulfide.

Also, they promote the practice of eco-friendly, natural circulation farming by turning livestock excrement into a resource such as compost or liquid fertilizer.

### Major Effects

- Increase immunity by inhibiting the growth of harmful intestinal bacteria through the production of antibacterials, thereby reducing the use of antibiotics.
- Improve digestive function through nutrition supply and fermentation, improve meat quality, save feed costs, and facilitate intestinal regulation, disease tolerance and antibacterial function.
- Remove odors from pen to create a pleasant livestock environment. In addition, they are effective for temperature/humidity control and in preventing the damage from blight and harmful insects.



## | Aquaculture & Environment |



**AquaBacta Pro, AquaBacta Bead**

### **Roles of microorganism in Aquaculture and environment**

Useful microorganisms improve water quality in aquaculture, promote fish growth, and upgrade fish color and quality. Also, they facilitate the production of healthy fishery products through the reduction of antibiotics and disinfectants. As for the environment, they purify lakes and reservoirs by removing odor-causing materials, such as ammonia and hydrogen sulfide, and decompose organic matters, and turn food waste into fertilizer.

### **Major Effects**

- Used to culture live feed such as chlorella or artemia needed for producing the seed of marine creatures such as fish, crustacea, and shellfish, in the early stage of fish culture.
- Improve the quality of fishery products by improving the following: nutrition supply and intestinal regulation, disease tolerance, antibacterial function, and fish color and quality.
- Contribute to the purification of water by removing ammonia-nitrogen and decomposing organic matters, thereby providing safe drinking water and clean water for farming.
- Used to turn food waste into a resource through the reduction of odor and composting





We provide a comprehensive solution including exploration of excellent strains, high-concentration culture technology, the use of fermenter, and application of microorganism at site, so that consumers can select, culture and use the microorganisms according to their needs in agriculture, livestock and aquaculture and for environmental improvement.

### Components of Microorganism Culture System Business

- Provision of various functional microorganisms that users need (**seed, culture medium**)
- Provision of microorganisms which are most active through easy and low-priced culture (**fermenter**)
- Training on the scientific use of microorganisms for effective on-site application (**user manual**)

### Culture Room Consulting

Provide consulting service for regional Agricultural Technology Centers, Agricultural Cooperative Federations, and Cooperative units: for example, building or extending of microorganisms culture room, registration of cultured microorganisms, and development and supply of requested microorganism

### Seed, culture medium

Microorganisms with high functionality and effects, and culture-optimized medium



### Fermenter

Intelligent fermenter with high energy efficiency and an embedded culturing program



### User Manual

Training on the scientific use of microorganisms for effective on-site application



### On-site Education

Support group training to increasing the understanding and use of microorganisms, and provide training on microorganism test and self quality assurance program.



### What is the CellAct Brand?

As a compound of Cell (Microorganism) and Act (Activation), it means a customer's selecting microorganisms users needs. It is a differentiated brand that expresses the characteristics of the microorganism culture system (seed, culture medium, and fermenter)

### Components of CellAct



*Rhodobacter azotoformans*  
*Rhodobacter capsulatus*  
*Rhodobacter sphaeroides*  
*Rhodobacter rubrum*  
*Rhodopseudomonas palustris*  
*Lactobacillus acidophilus*  
*Lactobacillus plantarum*  
*Lactobacillus casei*  
*Enterococcus faecium*  
*Streptomyces griseochromogenes*  
*Streptomyces asoensis*  
*Streptomyces vellosus*  
*Streptomyces panaciradicis*  
*Alcaligenes faecalis*  
*Aspergillus oryzae*  
*Azospirillum brasilense*  
*Azotobacter vinelandii*

**Culture  
production**

*Bacillus subtilis*  
*Bacillus megaterium*  
*Bacillus licheniformis*  
*Bacillus velezensis*  
*Bacillus amyloliquefaciens*  
*Bacillus thuringiensis*  
*Bacillus coagulans*  
*Brevibacillus brevis*  
*Paenibacillus polymyxa*  
*Streptomyces cerevisiae*  
*Pseudomonas putida*  
*Kluyvera intermedia*  
*Trichoderma harzianum*  
*Trichoderma hamatum*  
*Helicospirium nizamabadense*  
*Chlorella sp.*

**Agriculture**

Fertilizer / Promotion of plant growth

Biological products (biotic pesticide)

Restoration of agricultural ecology (Improvement of soil environment)

**Livestock industry**

Feed additives

Composting / removal of odors / treatment of animal waste

Enhancement of disease resistance

**Fishery industry**

Feed additives

Growth promotion (including breeding)

Improvement of water quality in farms and the decomposition of odor-causing materials

**Environment**

Removal of non-biodegradable materials

Purification of sewage / waste water (nitrification / denitrification)

Turning organic waste to energy

# 03

## Microorganism Culture System Business Model

AGRICULTURE

+

LIVESTOCK

+

AQUICULTURE

+

ENVIRONMENT

EcoBizNet

Ecobiznet Inc.

provides a comprehensive education and consulting service in relation to microorganism.

셀렉트  
**CellAct**  
Microbial Culture System

Functional seed

Culture media optimized for each microorganism

Smart Microbial Fermenter

**B2C**

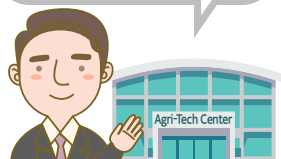
A customer can become a microorganism franchise and produce microorganisms and sell them to small and medium-sized farms in the agricultural, livestock, and fishery fields.  
Production & Sales of microorganism culture media



Production & sales of microbial culture fluid

**B2G**

Government institutions including local governments directly culture microorganisms and distribute them to farms.



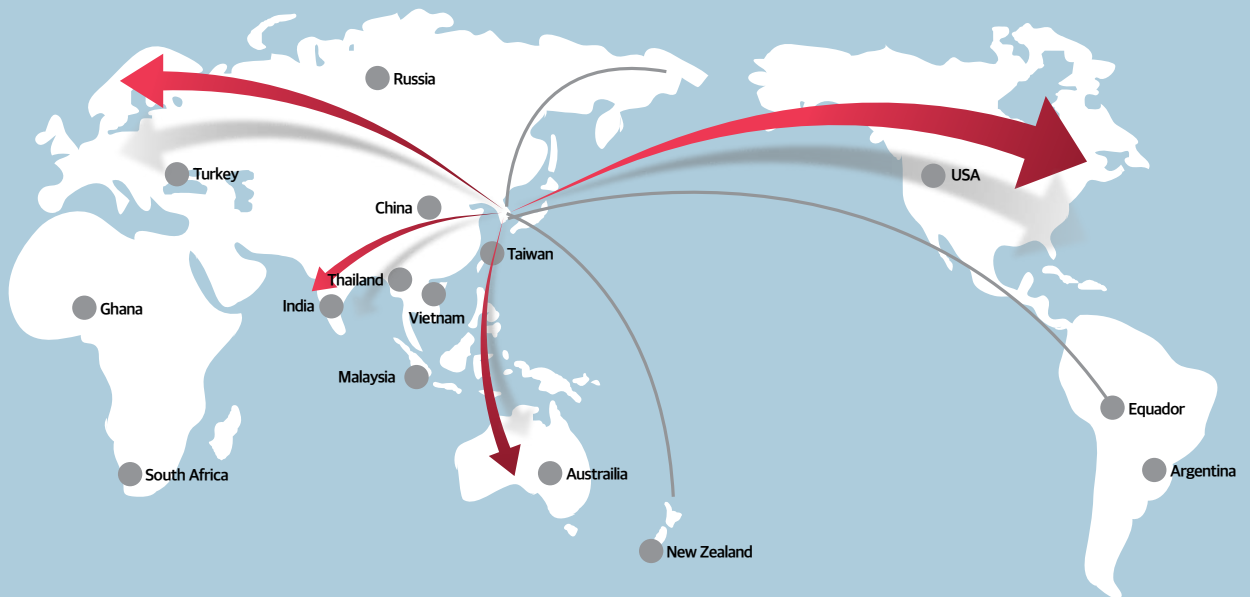
**B2B**

Large farms or Agricultural Cooperatives culture and use microorganisms on their own.





## Overseas network and Korean sales network

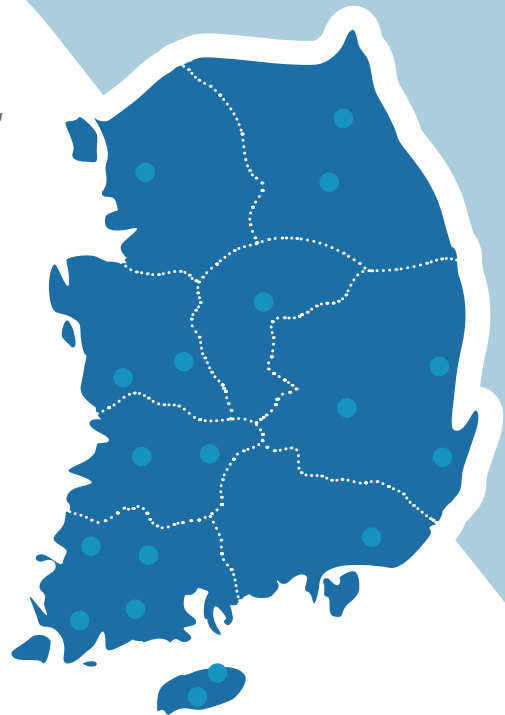


### Overseas network

U.S, China, New Zealand, Vietnam, South Africa,  
Thailand, Argentina, India, Japan, Philippines

### Korean sales network

Gyeonggi-do, Gangwon-do, Chungcheong-do,  
Gyeongsang-do, Jeolla-do, Jeju-do



# Microbial Business Global Leader

EcoBizNet



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