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Investment into a company utilizing cutting edge AI to detect microorganisms at species and strain levels, surpassing current standards for a fraction of the typical cost





Country:

Spain

Industry:

Soil and product testing, Genomics

Nature:

Privately held

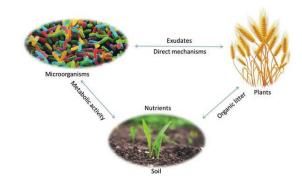
Date of Incorporation: 2017

Investment Summary

Genomics4all is an innovative AgTech company revolutionizing soil and microbiota analysis with its proprietary Crop Microbial Dynamics (CMD) technology. CMD provides farmers and biocontrol companies with detailed insights into soil microbial communities, optimizing crop performance while reducing chemical and fertilizer inputs. Leveraging a vast library of over 300,000 microbes and Al-driven models, G4All delivers tailored recommendations for sustainable agriculture.

Investment Highlights

- **Proven Technology:** G4All's CMD platform is built on a proprietary pipeline and a microbial library of over 300,000 microbes, delivering highly accurate, cost-effective analysis for optimizing soil and crop performance.
- **Cost Efficiency:** G4All's technology detects a greater diversity of microbes at a fraction of the cost of traditional methods, helping farmers reduce fertilizer and pesticide usage. Scalable and easy to use technology to be developed
- Validated solution: Successfully validated their solution with over 10 customers from multiple countries.



Company Overview

Founded in Spain in 2017, Genomics4All (G4All) is transforming agriculture with its Crop Microbial Dynamics (CMD) technology, which uses advanced genomics and Al-driven insights to optimize soil health and enhance crop performance. By analysing microbial communities, G4All helps farmers and biocontrol companies reduce chemical fertilzer and biostimulant inputs and boost yields. Focused on sustainable and regenerative agriculture, the company is positioned to scale its proven technology across the growing agricultural genomics market. Their company operates in the bioinformatic, technic and training "ad hoc" support focused on the analysis and interpretation of big amount of genomic data for R&D&I, and MKT, either for public or private projects. Furthermore, it offers services for the generation of profiles and genetics patterns as well as the characterisation of new varieties. Their team has over 15 years expertise in science and agricultural ventures.

October 2024





Country: USA

Industry: Invasive species control

Nature: Privately held

Date of Incorporation: Feb 2022

Investment Summary

ISC is a leader in biological solutions for invasive species control. Their first product, Zequanox®, successfully targets quagga and zebra mussels in the U.S. market. With several more products in development, including solutions for Asian carp, algaecides, bioherbicides, and crustacean control, ISC is poised for growth across multiple sectors while promoting sustainable ecosystem management.

Investment Highlights

- **Proven products:** First two commercial products, Zequanox® launched 2023 and Piscamycin set to launch 2025, have proven history in controlling Zebra & Quagga mussels and invasive Asian Carp, respectively.
- **Strong Pipeline:** Multiple additional products in development, targeting key areas like Asian carp, algaecides, and bioherbicides.
- **Efficient Development:** Products are brought to market with low development costs and within 4 years or less.
- Large Market Opportunity: Vast total addressable market across sectors like agriculture, forestry, and aquatic ecosystems.



Company Overview

ISC is a startup company founded in the USA in 2022 by Jim Boyd & Pam Marrone of Marrone Bio. The team has over 100 years collective experience in Ag & Biotech. They aim to control the worst invasive species with biological control microbial solutions. Their core competencies are in science, product development and management of public companies. The company intends to sell and develop next-gen formulations and utilise their own discovery platform to discover candidate microorganisms for biological control, with a priority on bioherbicides

Investment into an early-stage start-up company that have developed a unique versatile delivery system for volatile compounds used in sustainable pest management.





Country: Israel

Industry: Delivery Systems

Nature: Privately held

Investment Summary

Platypus is an early-stage startup aiming to enable and elevate sustainable pest management through their unique delivery system, PlatyForm. PlatyForm is a delivery gel which can be sold in an inert (raw) form or activated (incorporates volatile active) form, with an initial intention to target pest control manufacturers in North America and Europe.

Investment Highlights

- **Technology performance:** PlatyForm delivery gel prolonged the presence of the active substances. For example, tea tree and mint essential oils were prolonged by 18x in comparison to their virgin oils.
- **Registration timelines:** PlatyForm is fully biobased and biodegradable; all formulation ingredients are approved for agricultural use, reducing registration timelines for new products.
- **PlatyForm versatility:** While initial focus is directed at sustainable pest management, there is potential to expand at a later stage into antimicrobial packaging, veterinary uses, post-harvest uses and cosmetics.



Company Overview

Platypus have developed PlatyForm, a unique delivery system designed for volatile bioactive compounds to prolong their activity in-situ. PlatyForm can be incorporated into the manufacturing processes of pest management solutions for active substances including essential oils, terpenes and pheromones.

Alongside an initial market of sustainable pest management solutions, the versatile technology has anticipated uses extending to the food supply chain, antimicrobial packaging, veterinary care and cosmetics. Platypus is led by a team of experienced professionals in material engineering, pesticides, formulations, product development and business development.

October 2024

Investment into a company advancing sustainable agriculture with a patented seed coating system that enhances crop resilience, preserves biologicals, improves yields, and reduces energy use.





Country: Australia

Industry: Seed coating technology

Nature: Privately held

Date of Incorporation: 2020

Investment Summary

Innovative agritech company seeking a Seed Round investment to advance their innovative BreezeCoat™ technology, which delivers multi-layer, dust-free seed coatings with superior biological preservation. This system promises improved crop resilience and yield by up to 15% while offering up to 30% energy savings compared to traditional methods. With strong IP protection and traction through industry trials, VensoGrow aims to capture a significant share in the growing seed treatment and coating machinery markets.

Investment Highlights

- Innovative Technology: Patented BreezeCoat™ system delivers multi-layered, dust-free seed coatings, reducing waste by 15-20%.
- **Strong IP Protection:** Active IP portfolio with 20 years of patent protection across key global markets, including proprietary coating processes, software algorithms, and more.
- **Sustainability:** The BreezeCoat[™] system promotes energy efficiency with up to 30% energy savings compared to traditional methods, aligning with ESG goals for a more sustainable agricultural industry.
- **Versatility:** The system enables the application of multiple layers of seed treatments, addressing a range of early-stage challenges such as incompatible treatments, pests, diseases, and nutrient deficiencies.



Company Overview

VensoGrow is an innovative Australian agritech company that specializes in advanced seed coating technologies, driving sustainable agricultural solutions. Founded in 2020, the company is committed to increasing crop yields through cutting-edge seed protection and enhancement products. VensoGrow's flagship technology, BreezeCoat™, provides a comprehensive multi-layer seed coating system that improves crop resilience, growth, and yields, addressing key agricultural challenges like drought, pests, and nutrient deficiencies. The company is a technology and software licensing company operating in the seed treatment and coating machinery market.

Investment into a company utilizing an innovative AI-driven Natural Products Discovery platform to identify cryptic (undiscovered) metabolites with anti-fungal or herbicidal properties for biopesticide development.





Country: Belgium

Industry: Metabolite Discovery Platform

Nature: Privately held

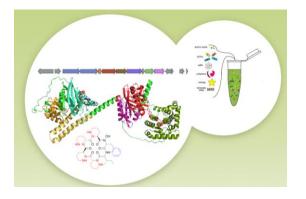
Date of Incorporation: 2015

Investment Summary

Hedera-22 is seeking to complete a seed round for the development of an Al-driven Natural Products Discovery platform. The seed round will fund the implementation of a DNA-based Synthesis (DBS) platform and an improved Bio-informatics Predictive (BIP) platform, alongside agri-activity testing for a 100+ molecule library ready to be screened.

Investment Highlights

- **Innovation:** Developing a new innovative Al-driven Natural Products Discovery platform for metabolite compounds.
- **Molecule library**: The modelled new discovery platform indicates up to 500 new metabolites of interest and 30 patentable molecules in 2026.
- IP: Patent has been filed for the Bio-Informatics Predictive (BIP) platform and freedom to operate is validated



Company Overview

Initially a bio-informatics spin-off from ULiege, Hedera-22 expanded into Natural Products Discovery in 2020 designing an Al-driven Natural Products Discovery platform in 2023. This discovery platform exploits bio-informatics and DNA-based synthesis through a selective and focused approach to identify novel sustainable compounds in the form of cryptic metabolites.

Hedera-22 has built an IP strategy to stay ahead of competition, where new molecules will be patented when appropriate. These molecules will enter a molecule library, that companies can use to screen and identify suitable anti-fungal and herbicidal compounds to licence. The company has a strong interdisciplinary team with a high level of industry expertise.

Investment into a biotechnology research and manufacturing company operating in the sustainable plant protection industry using natural viruses of bacteria to manage diseases seeking capital for scale up.





Country: Israel

Industry: Biological crop protection

Nature: Privately held

Date of Incorporation: December 2018

Investment Summary

Investment into a pre-commercial biological plant protection company with a promising technology platform in association with a renowned research institute. EcoPhage currently has one product in registration to enter the USA market. This product is for the management of bacterial diseases (bacterial speck and bacterial spot in tomatoes) and there are multiple other products in their development pipeline for disease management.

Investment Highlights

- Platform: University-supported bacteriophage technology platform with world experts
- **Technology:** Promising technology to combat bacterial diseases with high specificity, low toxicity and low resistance issues.
- **Pipeline:** Products for bacterial speck, bacterial spot, fire blight, Pierce's disease and banana Moko in the pipeline.



Company Overview

EcoPhage is a biological plant protection company specialising in the control of bacterial diseases using a type of virus known as bacteriophages. They use a proprietary technology platform licensed from a top research institute and developed by a world leader in the area of bacteria-bacteriophage interactions.

Their platform is a methodology for screening and characterising phage collections, resulting in selecting the most promising candidates referred to as "superphages". These then form the basis for phage cocktails which can meet multiple agricultural product attributes for antimicrobial protection and are highly effective.

Investment into a revolutionizing sustainable crop protection company with patented Plasma Activated Water, offering a cost-effective, residue-free alternative to chemical pesticides, and ready for global scale-up.





Country:

Netherlands

Industry:

Crop protection

Nature:

Privately held

Date of Incorporation:

2014

Investment Summary

VitalFluid is a pioneering AgTech company based in the Netherlands that offers an innovative and sustainable alternative to chemical pesticides through its Plasma Activated Water (PAW) technology. By leveraging a natural, residue-free disinfection process, VitalFluid provides farmers with an on-site solution to produce crop protection treatments, significantly reducing the need for harmful chemicals. With proven technology, strong IP protection, and global market potential, VitalFluid is now raising to fuel its growth and commercial expansion in key markets, such as Controlled Environment Agriculture (CEA), while positioning itself for broader applications in open-field crops and post-harvest treatment.

Investment Highlights

- Patented Technology: Patented Plasma Activated Water (PAW) platform with 15 machines deployed globally and over 10,000 operational hours.
- **Strong Market Demand:** Addressing the \$100B global pesticide market, with high demand for sustainable alternatives to chemical pesticides.
- Cost Advantage: PAW offers farmers a cost-effective solution, with production costs less than 20% of traditional fungicides.



Company Overview

VitalFluid was founded in 2014 to address the urgent need for sustainable crop protection solutions that easily fit into existing IPM programs. The company has developed a patented Plasma Activated Water (PAW) technology that replicates the natural disinfection properties of a thunderstorm, offering a residue-free alternative to chemical pesticides. VitalFluid's machines allow farmers to produce PAW on-site, reducing costs and eliminating harmful chemical fungicides in agriculture. VitalFluid have a strong team of experienced entrepreneurs and engineers.

October 2024





Country:

Industry:

Biological plant protection

Privately held

Belgium

Nature:

Date of Incorporation:

2021

Investment Summary

Investment into a biological plant protection company specialising in the control of weeds and fungal diseases by bringing innovative biopesticides based on plant extracts & essential oils. APEO has the licensed for a Uliege formulation patent, a patent on novel AS and have submitted an active substance registration dossier for RTU herbicide for the Home & Garden (H&G) market in the USA and Europe, as well as a process patent. They have developed a portfolio of 3 bioherbicide products based on natural essential oils for use in H&G and professional agriculture and have a pipeline of bioherbicides and biofungicides professional agriculture.

Investment Highlights

- **Registration:** First bioherbicide active substance submitted for registration based on essential oil
- **Commercialisation:** Aim to commercialise soon in the USA in Home & Garden market, with a plan to submit the second bioherbicide active substance for professional uses.
- **IP Protection:** Natural formulation patented in 2018, selective co-formulants patented in 2022, and process patent submitted in May 2024.
- **Pipeline:** Pipeline of nine products for H&G and professional solutions covering herbicidal, biocidal and fungicidal uses

Company Overview

APEO is a spin-off company from ULiege, created in 2021 in Belgium. They are a biological plant protection company specialising in the control of weeds and fungal diseases by bringing innovative biopesticides based on essential oils and plant extracts. The company aim to be a prominent business partners in the plant protection and biocide sectors, with excellence in R&D, regulatory ownership, formulation control. The management team combine science and business, with 20+ years' experience in multinational companies.

Investment into a discovery and development platform for biopesticide solutions, including biofungicide and biostimulant technologies.





Country: Netherlands

Industry: Biopesticide Discovery

Nature: Privately Held

Date of Incorporation: 2018

Investment Summary

Investment into a revenue-generating discovery platform developing biofungicide and biostimulant technologies, to license to biopesticide companies for use in fruit and arable crops. Their biofungicide Canto® BioMosae have an intellectual property portfolio for microorganism collection, screening and production alongside 3 candidate strains.

Investment Highlights

- **Innovation:** Streamlined discovery platform to identify bacterial strain and metabolite active ingredients for biocontrols & biostimulants
- **Product development pipeline:** Biofungicide Canto®, a biological active ingredient based on extracts of a proprietary bacterial strain. Their biostimulant being developed for a seed coating application in a new formulation with various modes of action, as well as a seed biopesticide.
- Intellectual property: Collection of micro-organisms, deposited 3 candidate strains, have a production patent and developed own screening methods



Company Overview

BioMosae is a discovery company for the development of active ingredients for biocontrols and biostimulants, based on microorganisms. The company has established a bacterial library containing numerous bacterial strains collected across Europe and to date, has identified several promising, novel active ingredients for various biofungicide and biostimulant products for both foliar and seed applications.

In 2020, BioMosae was awarded with a Eurostars subsidy, followed by LIOF Innovation and MIT R&D subsidy awards in 2021.

Innovative sustainable agriculture company with patented microwave extraction technology, delivering ecofriendly biopesticides that match the performance of chemicals.





Country: France

France

Industry:

Biorational

Nature:

Privately held

Date of Incorporation:

2014

Investment Summary

A leading developer of sustainable biopesticides, using its patented microwave eco-extraction technology to produce natural, non-toxic alternatives to chemical pesticides. Antofénol's flagship product, Antoferine®, has demonstrated efficacy comparable to traditional pesticides in over 143 field trials and is set for EU regulatory approval by 2026. Antofénol's technology supports a zero-waste production model and is poised to capitalize on the growing biopesticide market.

Investment Highlights

- **Proprietary Technology:** Antofénol's microwave eco-extraction process produces biopesticides without harmful chemicals, ensuring a circular and sustainable business model.
- **Market Validation:** Antoferine® has been validated in over 143 field trials with results comparable to chemical pesticides and is poised for regulatory approval in the EU by 2026. Antofénol have obtained support letters from the top 5 agrochemical distributors.
- **Sustainability Focus:** The company operates with a zero-waste policy using by-products to produce its product and integrates sustainability into every aspect of its production process.



Company Overview

Antofénol is at the forefront of sustainable biopesticide development, utilizing patented microwave extraction technology to produce eco-friendly alternatives to chemical pesticides. The company's mission is to pioneer non-toxic solutions for the agricultural sector, ensuring a sustainable food supply for future generations. Their leading product, Antoferine®, is a 100% natural fungicide, validated in large-scale field trials, and positioned to capture a significant share of the growing global biopesticide market.

Investment into an award-winning and fast-growing US Biorational R&D company with a patented botanical purity and non-plastic formulation platform.





Country: USA

Industry: Biorationals

Nature: Privately held

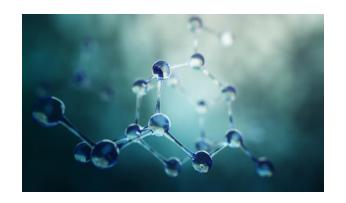
Date of Incorporation: 2019

Investment Summary

This exciting start-up company is seeking its first external investment round to support its fast growth in the North America market. GroNatural's globally patented manufacturing technology ensures high purity of its botanical materials and a cutting-edge, natural based microencapsulation technology that is free from microplastics, to allow slow-release on target.

Investment Highlights

- Technology: Cutting-edge natural-based microencapsulation that is free of microplastics
- Platform: High-purity absolute botanical oil production platform
- **Approved Use:** OMRI Approved for organic and regenerative farming use
- **Products:** Multiple biocontrol (fungicide, insecticide, nematicide, mosquito) and biofertilizer products in market



Company Overview

An award-winning biotech company operating in the Crop Science and Plant Nutrition sectors. The company has multiple high-performance products across these sectors, with a proven sales record. GroNatural are built on a patented plastic free microencapsulation platform, that allows for temperature stability, storage life and tank mixing. These products boast high purity and comparable efficacy to existing chemistry due to the purity of the patented absolute botanical oil platform whilst being more environmentally friendly than conventional chemical products. The company is led by a strong and experienced management team consisting of both start-up and industry professionals with AgChem, Biotech and Agronomic backgrounds.