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Why support start-up creation at INRAE?

A WAY OF CREATING VALUE AND INNOVATION IN LINE WITH THE OBJECTIVE OF SCIENTIFIC RIGOR

An opportunity for scientists and PhD students:

> To promote their research results and to generate new jobs
> To discover an entrepreneurial framework and to co-conceive innovations

**Objective 01**

Create companies from innovations developed in INRAE’s laboratories

**Objective 02**

Support external business project leaders using scientists’ skills and the laboratory infrastructure of INRAE
A clear will to support creation of startups

01
INRAE supports startups willing to use its laboratory skills to grow

02
INRAE co-finances the cost of research of startups partnering with its laboratories

03
INRAE grants startups favorable conditions to exploit its results in line with their development

04
INRAE hosts and gives access to its equipment and facilities, during the first years of their business, to startups partnering with its laboratories
Support actions...

The «Flash Parcours Entrepreneuriat» are events in INRAE’s research centers to inform scientists and PhD students interested in creating a company.

Partnerships with agricultural engineering schools to bring students and INRAE laboratories closer together.
Review of business creation since 1999

- Start-up created or linked to INRAE: 216
- Jobs created: 1000
- Success rate of start-ups supported by INRAE since 1999: 81%
les START UP

born from INRAE’S results

Food | Environment | Agriculture
Food

Valneva

Created in 1999

Proposes a method for protein production, in particular vaccines, in embryonic somatic avian cell cultures. The company raised funds and developed collaborations with many pharmaceutical industry players: Sanofi Pasteur, Fort Dodge, Bavarian Nordic, Geovax, GSK, CSL, Nobilon.

www.valneva.com

IDBiotech

Created in 2004

Develops, manufactures and markets immunochemical kits for the authentication and quality control of raw materials and processed products in the agri-food and pharmaceutical industries.

www.idbiotech.com
Commercializes software controlling a device for the determination of acidifying activity and kinetics of acidification of microbial cultures.

**www.bioval-process.com**

Created in 2010

Develops innovating products based on sugar cane juice sold in supermarkets.

**Created in 2005**

Advises viticulture with analysis of the quality potential of plots. Measures the water status of the vine, on the plant or on parts of the plant, correlated with the physicochemical properties of the grape berry and the styles of wine.

**www.vivelys.com**

Created in 2004

Commercializes software controlling a device for the determination of acidifying activity and kinetics of acidification of microbial cultures.

**www.bioval-process.com**

Created in 2010
Treats severe diseases by using the power of the intestinal microbial ecology. MaaT stands for «Microbiota as a Therapy» and focuses on the use of clinical promises of microbiotherapy to develop innovative solutions to deal with unmet medical needs related to dysbiosis pathologies. MaaT relies on the scientific and technical expertise of over 30 years at INRAE in human digestive tract microbiology.

Created in 2014

Created in 2012

Created in 2012

Created in 2013

Develops drugs and biomarkers for the diagnosis of chronic diseases related to anomalies of bowel bacterial composition (bowel metabolic and inflammatory diseases). Enterome has conducted several fundraising campaigns among investors, which made it possible to validate and promote its patented biomarkers in the form of medical diagnosis in Europe and the USA.

www.enterome.fr

Offers advice and expertise on sensory analysis and statistics for large companies and SMEs. Sensostat carries out sensory studies to better match products to consumer expectations.

www.sensostat.fr

Analysis of volatile compounds and polyphenols in all sorts of beverage (fermented or not).

www.twistaroma.fr

Treats severe diseases by using the power of the intestinal microbial ecology. MaaT stands for «Microbiota as a Therapy» and focuses on the use of clinical promises of microbiotherapy to develop innovative solutions to deal with unmet medical needs related to dysbiosis pathologies. MaaT relies on the scientific and technical expertise of over 30 years at INRAE in human digestive tract microbiology.
Provides software for the acquisition and analysis of sensory data (profile, hedonic tests, Temporal Dominance of Sensations).

Identifies the toxic and carcinogenic properties of diverse cosmetic or pharmaceutical products using human cells.

Develops a new generation of therapeutic probiotics, based on commensal bacterial strains.
Provides innovative methods in silico to accelerate the discovery and the evolution of biomarkers and therapeutic antibodies.

**MAbSilico**

Created in 2017

Develops a gene expression system that could accelerate the development of gene therapy treatments, particularly in the field of cancer treatment.

**NutriTheragene**

Created in 2019

Develops a drug capable of resolving hormonal insufficiencies causing infertility, both in women and in men.

**Igyxos**

Created in 2017

**Clinicncell**

Created in 2020

Proposes in-vitro screening of new ingredients with a beneficial effect on health.

Startups born from INRAE’s results | Food
Offers services and training in multivariate data analysis helping manufacturers to better control their products and processes. Its fields of application are agriculture, agronomy, pharmaceutics and petrochemicals.

www.ondalys.fr

Created in 2003

Offers a natural process for the oleothermal treatment of wood. It is intended for sawmills and timber manufacturers by allowing them first to diversify their range in response to the growing demand for more environmentally friendly products and second, to provide their products with high added value (thermo-oiled HEQ wood).

www.oleboois.com

Created in 2004
Promotes the Indigo® software which forecasts the impact of cultivation practices on the environment and integrates it in an exchange platform. Using data concerning the size, orientation, treatment of plots, the software allows, among other things, a selection of phytosanitary products more respectful of the environment while integrating the economic and financial constraints of the farm. Envilys has adapted this software to Mediterranean viticulture.

www.envilys.fr

Created in 2005

Produce renewable energies from emissions of agro, pharmaceutical and chemical industries. The project leaders have approached the Laboratory of Environmental Biotechnology (INRAE Narbonne), in order to benefit from their expertise in effluent treatment technologies by microbial digestion under anaerobic conditions (or anaerobic digestion).

www.naskeo.com

Created in 2005
Conducts, provides and implements innovative solutions for the functional diagnosis, biological treatment and monitoring of soils.

Created in 2008

www.valorhiz.com

Created in 2008

Offers specialized services in consultation engineering. Participates in the design, animation and evaluation of all types of projects involving consultation, whether they are land management projects, natural resources or organizations.

www.lisode.com

Created in 2011

Supports businesses and territories in establishing dialogue and taking agriculture, landscapes and the environment into account in regional projects.

www.sites.google.com/site/vousetesdici
Proposes an integral treatment of wastewater by vermicomposting (ecological purification station), and organic waste treatment (vermicomposting station).

Created in 2011

www.lombritek.com

Created in 2012

Offers expertise and advice in the management of vegetation installed on dikes, dams and river banks.

www.arbeausolutions.fr

Created in 2013

Uses water and nutrient cycle modeling at the scale of the watershed and reactive transport modeling in porous medium.

www.scheme-rd.fr

Startups born from INRAE’s results | Environment
Develops and markets software solutions for online monitoring anaerobic digestion facilities. Several of these technologies come from the Laboratory of Environmental Biotechnology: installation diagnostic software, data management, sensor-software.

www.bioentech.eu

Created in 2013

Provides manufacturers with easy-to-use and precise spectroscopic analysis software. The software implements predictive models that analyze organic matter instantly and provide reliable results for any type of application or control system.

www.greentropism.com

Created in 2014
Monitors the quality of aquatic environments by assessing chemical contamination and toxicity of micropollutants on living organisms.

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Monitors the quality of aquatic environments by assessing chemical contamination and toxicity of micropollutants on living organisms.

www.biomaee.com

Supports manufacturers in reducing their environmental footprint through innovative analytical and research services, integrating a complete vision of the life cycle of ingredients and products.

**Created in 2015**

Supports manufacturers in reducing their environmental footprint through innovative analytical and research services, integrating a complete vision of the life cycle of ingredients and products.

www.scanae.com

Develops a yeast capable of using CO₂ (of atmospheric origin or other) and transform it into molecules for the chemical industry.

**Created in 2015**

Develops a yeast capable of using CO₂ (of atmospheric origin or other) and transform it into molecules for the chemical industry.

www.enobraq.fr

Startups born from INRAE’s results | Environment
Develops plant products that look like yogurts and are made of fermented rice, millet and buckwheat.

Uses enzymes produced by a fungus growing in presence of rapeseed oil meals, for several applications such as treating jeans.

Created in 2018

Develops plant products that look like yogurts and are made of fermented rice, millet and buckwheat.

Created in 2019

Uses enzymes produced by a fungus growing in presence of rapeseed oil meals, for several applications such as treating jeans.

www.nomad-yo.org

www.oleoinnov.com
Offers support in the study, preservation and optimization of the agro-
nomic characteristics (physical, chemical and biological) of soils through pedological interventions, training and activities.

Supports regional projects using participatory techniques such as Foncijeu, forum theater and the Gerdal method (Experimentation and Research Group: Development and Local Actions).

Created in 2019

www.sol-et-co.com
Develops, manufactures and markets natural microbial inoculants and innovative biological substrates that promote plant growth, or provide them with protection against pathogens, or can accelerate soil decontamination.

www.biotisa.com

Created in 2005

Produces innovative and rare active ingredients to cosmetics, pharmaceutical and agrochemical markets.

www.plantadvanced.com

Created in 2005
Performs innovative analytical services in the field of quality control and molecular traceability (agro-food and agronomy).

Created in 2006

www.adnid.fr

Provides advice and chemical analysis of vine and wine flavours. Thanks to innovative techniques from the Sciences for Oenology Laboratory at INRAE Montpellier, NYSEOS analyses the aromatic potential of the harvest and the flavours naturally present in the wines.

Created in 2007

www.nyseos.fr

Offers revegetation services that contribute to restoring biodiversity.

Created in 2009

www.solicaz.fr

Startups born from INRAE’s results | Agriculture

23
Develops products to better master animal reproduction in line with sustainable agricultural practices.

www.repropharmvet.com

Created in 2009

Biotechnology Spin-off from the Institut Curie and INRAE. Holds a global exclusive license for a technology that modulates the frequency of the homologous recombination in eukaryotic cells. The company has conducted several fundraising campaigns.

www.meiogenix.com

Created in 2010

Achieves scientific services in ethology and animal welfare for organisations working with animals.

www.bureau-etre.fr

Created in 2011
Provides advice in the field of the environment. Offers environmental diagnosis services, ecosystem monitoring, 3D statements natural habitats.

Created in 2012

Promotes in-vitro spermatogenesis research. This work allowed the development of in-vitro tests in reprotoxicology from rat cell cultures.

www.kallistem.com

Created in 2014

Develops high-throughput plant phenotyping. Among other services, drone observation (Airphen) and wireless sensor observation are today prime means to characterize the functioning of varieties and provide breeders with the information they need.

www.hiphen-plant.com

Created in 2014

Sells real-time 3D simulation and test benches for the development of mobile robotic systems, drones & intelligent vehicles.

www.4d-virtualiz.com

www.ecosustain.fr

Created in 2012
Vi-A-Terra (Created in 2014)

Provides knowledge and know-how transfer from research towards territorial actors, to better integrate agriculture into territory projects, for citizens and sustainable development purposes.

www.vi-a-terra.jimdosite.com

AIO-VA (Created in 2019)

Develops innovative DNA-based vaccines, boosting and optimizing the immune responses of the vaccinee, and showing unmatched vaccine properties against AIDS-like viruses. The patented technology has a strong differentiating advantage because there are no alternative strategies to combat the targeted diseases.

www.wetruf.com

Mycophyto (Created in 2017)

Implements plant production systems that do not need chemical inputs (fertilizers, pesticides) by optimizing the natural synergy between plants and fungi.

www.mycophyto.fr

WeTruf (Created in 2019)

Provides the truffle industry with the innovations developed in the laboratory. Composed of a team of experts in the biology and biotechnology of fungi, it offers a complete and appropriate range of services, incorporating technological innovations.

www.wetruf.com
POLLINOVA: Optimizes hybrid cereal seed production.

Offers innovative ecological expertise in soil quality based on a microbiological diagnosis for sustainable soil management in both agricultural and urban contexts.

Furnishes an R&D precision agriculture outsourcing solution.

Develops sustainable and innovative solutions to protect field crops.
raised in INRAE’S environment
Food

Startups raised in INRAE's environment | Food
Food

Also:
- Les Cremeries Unies
- Les Enzymes Joyeuses
- Novobiome
Environment

Startups raised in INRAE’s environment | Environment
Startups raised in INRAE's environment | Agriculture
INRAE Transfert, the Technology Transfer Unit of INRAE, has supported 122 creations of innovative companies by looking for suitable partnering and technology transfer modalities at the beginning of their activity, if necessary linked with the incubator involved.

176 of these companies are still active.

We thank our partners for their support.