



PRESS RELEASE

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Ynsect, Giessen University & Insect Biotechnology Center join forces to foster the insect industry

Ynsect, Giessen University & Insect Biotechnology Center have signed a collaboration agreement to work on new products that could be extracted from the Tenebrio molitor beetle and on the development of new applications of existing Ynsect technology products.

According to an FAO report, the world's population is forecasted to rise to nine billion by 2050 which will impact the worldwide protein consumption to rise by 52% between 2007 and 2030. This highlights the problem of producing enough protein to feed fish and poultry, the animals whose consumption in the world is growing the most. Insects provide a natural and legitimate solution for these animals on both economic and environmental levels.

That's why Ynsect and Giessen University have decided to join forces to develop knowledge and help the insect industry prosper in Europe and around the world. Through this alliance between the European biotechnology industry leader in the public domain and the leader in the private one, this union will contribute to the sharing of valuable insights and the improvement of Ynsect technologies profitability.

"Ynsect is delighted to launch this collaboration with Giessen University through LOEWE Center of Insect Biotechnology. This is the biggest public research investment ever done in the world on insect biotech for food & industrial applications. We believe this partnership will allow us to make significant progress in science and knowledge about new insect products and new applications," says Mr. Antoine Hubert, Ynsect CEO.

"Learning from insects means learning how to win," states Prof. Andreas Vilcinskas, Director of Insect Biotechnology Center. *"Joining the complementary scientific and economic expertise of Ynsect and the LOEWE Center will significantly strengthen Europe's position in the field of insect biotechnology."*

This European collaboration is completing existing Ynsect public/private R&D partnerships. Ynsect has already done so in France with research centers like CEA, INRA, CNRS and AgroParisTech. This is a new significant step in the current international development of the company.

YNSECT:

Created in 2011 by Alexis Angot, Fabrice Berro, Antoine Hubert and Jean-Gabriel Levon. Ynsect is an innovative company which is specialised in the production of insects at a large scale and their conversion into different molecules of interest. These molecules, which are mainly proteins and lipids, but also chitin and secondary metabolites, meet the needs of animal feed markets (farmed and domestic animals), but also green chemistry and, in the longer term, human nutrition markets. The company introduces insects in the industry as an innovative technological biodiversity and creates new commercial opportunities. Ynsect is the world leading company to possess this industrial know-how with patented technologies to provide an innovative and concrete response to one of the main challenges facing humanity.

GIESSEN UNIVERSITY & LOEWE CENTER OF INSECT BIOTECHNOLOGY AND BIORESOURCES:

The LOEWE-Centre for 'Insect Biotechnology' which has been defined as the development and application of biotechnological applications to translate insects and molecules, cells, organs or associated microorganisms derived thereof into products and services for applications in medicine, agricultural and industrial biotechnology. The LOEWE-Centre 'Insect Biotechnology' is Europe's first operational unit in this highly innovative research field with tremendous growth prospects. Basis of insect biotechnology is the in-depth knowledge of the systematics and ecology of insects. After the knowledge-based selection of specialized insect species, application-relevant molecules can be identified with highly sensitive analytical methods, examined, and used for downstream applications. Involved in the project, funded by the State of Hesse, are the Justus-Liebig-University of Giessen, the Fraunhofer Institute for Molecular Biology and Applied Ecology and the Technical University of Central Hesse.

JUSTUS LIEBIG UNIVERSITÄT GIESSEN:

Justus Liebig University Giessen (JLU) is directing the LOEWE Center of Insect Biotechnology and Bioresources in cooperation with the University of Applied Sciences in Central Hessen and the Fraunhofer Society's project group Bioresources. Established in 1607, Giessen University is a large public research university in the town of Giessen and one of the oldest in all of Germany. JLU combines a broad and interdisciplinary spectrum of research and teaching in the areas of law, economics and business studies, natural sciences, and humanities with a range of sub-disciplines that are unique for Germany.

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