BioBusiness is a Marie Curie Training Program based upon the collaboration of animal scientists, veterinarians and engineers to create technological solutions through applied research and innovation for the livestock industry.

**Role of each fellow in the product groups**

**Automatic Lameness Detection in Dairy Cows**
- **Tom Van Hertem**
  - Modelling animal behaviour for lameness detection and experimentation

**Automatic Monitoring of Pig Aggression**
- **Gunnel Ismayilova**
  - Labelling

**Improving Conditions for Incubating Eggs**
- **Nancy Roulston**
  - Chick welfare, project management & product development

**Model and control development**
- **Carlos Eduardo Bites Romanini**

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**Scientific articles written by the BioBusiness fellows and EC-PLF**

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**A new European project in precision livestock farming**
- **“The EU – PLF Project”**
### Scientific Articles Written by the BioBusiness Fellows

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<td>Hakim Bergoug</td>
<td>Effect of incubation conditions and post hatch handling on chick quality and performances at placement.</td>
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<td>Carlos Eduardo Bites Romanini</td>
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<td>Analysis of aggressive sequences in relation to the development of an automatic monitoring system of pig aggression.</td>
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**EC-PLF 2013**

Joint European Conference
Leuven, Belgium, September 10-12, 2013

This year the BioBusiness Consortium is organizing the European Conference on Precision Livestock Farming 2013 (EC-PLF 2013) in Leuven from September 10-12, 2013. This conference will be a joint conference combining:

- The 6th European Conference on Precision Livestock Farming (EC-PLF)
- EU BioBusiness Project – Final conference
- EU-PLF Project – First workshop
- All-Smart-Pigs Project - First workshop

For more information, please visit [www.ecplf2013.eu](http://www.ecplf2013.eu)

The focus of the conference will be how to use advanced technology for automated monitoring of livestock to improve health, welfare, performance and environmental impact of the animals and reduce emissions. You can find an overview of the topics on: [http://www.ecplf2013.eu/ecplf-themes.asp](http://www.ecplf2013.eu/ecplf-themes.asp)

Important dates:


Notification of acceptance: **February 28, 2013**

Deadline for submission of papers: **May 17, 2013**

Conference: **September 10-12, 2013**
The objective of the EU-PLF project is to deliver a blueprint for an animal and farm-centric approach to innovative livestock farming in Europe validated by extensive field studies. The blueprint is a manual for farmers and associated surrounding industry including high tech SME’s. It is a reference tool offering pragmatic guidance on how Precision Livestock Farming (PLF) systems can be applied at the farm level and create added value for the farmer and other stakeholders. EU-PLF is based on the PLF concept where continuously automated measurements are taken directly from the animal or its environment. Beyond the use of PLF data (e.g. body movements or sounds) for monitoring and management, the data can be translated into key indicators on animal welfare, animal health, productivity and environmental impact.

To ensure that the blueprint assists the European livestock industry beyond the duration of the project, a competition will be held for emerging high-tech livestock businesses in Europe. A total of 50 SMEs or start-up companies will be funded to design a PLF-prototype and in collaboration with a leading industrial PLF-partner, use the blueprint to bring their prototype to the farm level. Linking high tech SMEs to European industry players will generate new PLF-products ready for the global market.

The EU-PLF project began officially in October of 2012 and it is expected to run for 48 months with an expected cost of 6,590,350 Euros.

The EU-PLF project will also run with a parallel project called “All Smart Pigs”. The objective of this project is to demonstrate the technical and economic viability of PLF in European pig farms. The project will use a process of open innovation through a Living-Lab to co-create smart farming applications ready for commercialisation on European pig farms.

These applications will be provided by innovative SMEs which will test and validate in “All Smart Pigs” their technological prototypes and services in real life conditions together with pig farmers and other stakeholders.

During the kick-off meeting, the participants discussed the overall objectives, work packages and milestones of the two projects. Running these two projects in parallel enables a living lab infrastructure helpful for bringing PLF technologies to European livestock farmers.