

Fecund: project n. 312097



- Start date: **February 2013**
- Duration: **48 months**
- Partners: **13** (from 7 countries)

List of Beneficiaries

No	Name	Short name	Country
1	Fondazione Parco Tecnologico Padano	FFTP	Italy
2	LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN	LMU	Germany
3	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	INRA	France
4	UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	NUID-UCD	Ireland
5	VETERINAERMEDIZINISCHE UNIVERSITAET WIEN	WUV	Austria
6	Instytut Genetyki i Hodowli Zwierząt Polskiej Akademii Nauk	IGHZ PAN	Poland
7	AVANTEA srl	AVANTEA	Italy
8	BAYERN GENETIK GMBH	BG	Germany
9	NATIONAL CATTLE BREEDING CENTRE LIMITED	NCBC	Ireland
10	UNION NATIONALE DES COOPERATIVES AGRICOLES D'ELEVAGE ET D'INSEMINATION ANIMALE	UNCEIA	France
11	OSRODEK HODOWLI ZARODOWEJ OSIECINYSZ ZOO	OFB	Poland
12	EUROPEAN FORUM OF FARM ANIMAL BREEDERS	EFFAB	Netherlands
13	UNIVERSITA CATTOLICA DEL SACRO CUORE	UCSC	Italy

Fecund: objectives



“Optimisation of early reproductive success in dairy cattle through the definition of new traits and improved reproductive biotechnology”

- gain **new knowledge** on fundamental aspects of **cattle reproduction**
- **identify genetic loci, proteins, miRNAs, biomarkers, novel phenotypes** associated with cattle **fertility**
- evaluate potential applications to cattle breeding and farming

Fecund: achievements



- Research papers: **12** (so far)
- Congress abstracts/oral presentations: **16**
- 1 doctoral thesis (University of Vienna)

- **Two large experiments:** energy balance (low vs high), genetic (low vs high fertility heifers)
- Lots of data (**NGS**) generated on fundamental aspects of reproduction (SNP data, phenotypes, RNA-seq, miRNA, proteomics, biomarkers, metabolites ...) from oocytes, embryos, oviducts etc ...
- **Tools** developed: e.g. bioinformatics **pipeline** for automated **gene functional and pathway analysis** (at PTP Science Park)

Fecund: today's speakers



- 1. Urban Besenfelder** - University of Veterinary Medicine, Vienna (Austria)
- 2. Georg Arnold** - LMU Gene Centre, Munich (Germany)
- 3. Yann Locatelli** - INRA, Tours (France)
- 4. Niamh Forde** - University of Leeds, Leeds (UK)
- 5. Filippo Biscarini** - PTP Science Park, Lodi (Italy)



adding value **from research**

Thank you

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