


Development of the EADGENE Mastitis concept: from the pathogen-regulated host genes towards relevance.
 WP08: Operational Genomics. Sem Genini, Elisabetta Giuffra (PTP)



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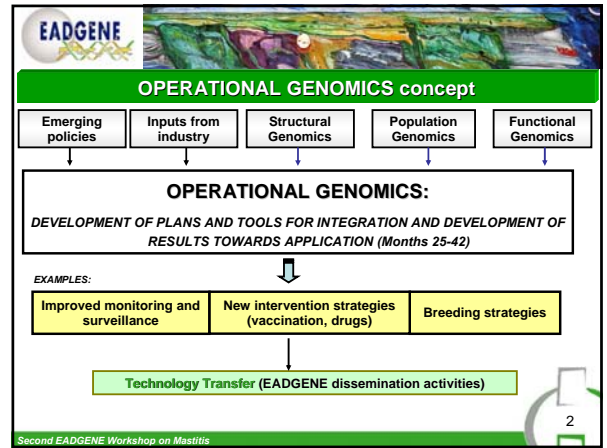

WP08: Operational Genomics

Sem Genini and Elisabetta Giuffra
 PTP – Section Livestock Genomics I

Second EADGENE Workshop on Mastitis
 Roslin, 01/02 March 2007

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What was done so far (since Month 7)


First WP08 report: D08.1.1. A list of infectious pathogens and livestock diseases ranked according to their role in threatening the safety and quality of animal derived food (available at <http://partner.eadgene.info>).

- We provided the state-of-the-art of the most important infectious pathogens and livestock diseases to the industry and/ or the general public in the EU, primarily based on the potential for food safety issues.
- We showed the strategies currently used to control these pathogens.
- We ranked these infectious pathogens/ diseases in a list, according to their potential for an operational genomics study.

→ This report served as a basis to identify a suitable subject for an OG approach (manuscript in progress)

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Current resources and task of WP08

INRA (0.4), WU (0.3), ID-L (0.5), EFFAB (1), Roslin (1), PTP (13)

Task 08.1.3. Preparation of a draft proposal for an OG research project for a chosen pathogen/ disease.

Deliverable 08.1.3. Draft OG project proposal for activities between M36 (August 2007) - M60 (August 2009).

Milestone 08.1.3. Identification/selection of one common project on the basis of main outcomes/predictions from JPA activities (M0+30).

Draft OG proposal:

- Bring together and organise individual results as a common resource
- Identify (among many) the most promising research line in terms of potential application and using the most suitable tools (e.g. advanced data mining, meta-analyses, comparative genomics...)

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Why mastitis?

➢ Good experience in data sharing and common analysis of expression analysis data by the WG partners (e.g. Tune workshop, Nov. 2006, led by WP01.4).

- provides a framework for the straight implementation of a new agreement for OG activities
- the momentum of mastitis WG allows coordination and avoids overlapping with individual research efforts of EADGENE partners

➢ Operational Genomics can add value:

- by implementing an additional level of integration and analyses
- by (hopefully) bringing us closer to application
- EADGENE's plans are to increase dedicated resources during time

➢ SABRE provides additional opportunities...

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Strategy: current 18 months period

- Identify partners to join OG activities (for current and next 18 months period)
- Define terms of agreements for data sharing and use (deadline)
- Identify needs and opportunities for project development among active partners: funding, personnel, dedicated web-based tools for data sharing (link to WPs 1.4, 3.1, 4.1, 9.1 and 12.3).
- Prepare a OG draft proposal to be discussed at SABRE/EADGENE days (June 2007) (deadline)
- Refine draft proposal for EADGENE/SABRE planning and allocation of resources (Month 36): full project development
- Monitor and coordinate additional opportunities for funding

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