

Experiments in animal farming practice: the case of decreasing the use of antimicrobials in livestock (France)

Nathalie Joly, Cécile Adam, Florence Beaugrand, Justine Defois, Christian Ducrot, Nicolas Fortané, Brigitte Frappat, A Gros, Florence Hellec, Claire Manoli, et al.

▶ To cite this version:

Nathalie Joly, Cécile Adam, Florence Beaugrand, Justine Defois, Christian Ducrot, et al.. Experiments in animal farming practice: the case of decreasing the use of antimicrobials in livestock (France). 12. European IFSA Symposium, Harper Adams University, International Farming Systems Association (IFSA). AUT., Jul 2016, Newport, United Kingdom. hal-01580679

HAL Id: hal-01580679 https://hal.science/hal-01580679v1

Submitted on 3 Jun 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.





12th European IFSA Symposium 12th – 15th July 2016 at Harper Adams University, UK



Theme 1: Innovation, knowledge and learning processes

Workshop 1.5 Pathways towards sustainability in the agricultural knowledge and

innovation system: The role of farmers' experiments and

innovations

Convenors: Friedrich Leitgeb University of Natural Resources and Life Sciences,

Vienna (friedrich.leitgeb@boku.ac.at).

Christian Vogl (christian.vogl@boku.ac.at), Christoph Schunko (christoph.schunko@boku.ac.at) & Susanne Kummer (susanne.kummer@boku.ac.at). University of Natural Resources and

Life Sciences, Vienna.

Sara Burbi (ab9735@coventry.ac.uk), Katie Hartless Rose (ab0007@coventry.ac.uk) & Julia Wright (aa9469@coventry.ac.uk),

Coventry University, Coventry.

Experiments in animal farming practice: the case of decreasing the use of antimicrobials in livestock (France)

Joly, N.¹, Adam, C², Bonnet-Beaugrand, F.³, Defois, J.⁴, Ducrot, C.⁵, Fortané, N.⁶, Frappat, B.⁷, Gros, A.⁷, Hellec, F.⁸, Manoli, C.⁴, Paul, M.⁹, Poizat. A.³, Samedi, C.³

¹AgroSupDijon, CESAER 1041, INRA, Dijon France, ² Unité d'Épidémiologie Animale, UR346, INRA, Saint Genès Champanelle, France; IHAP, Université de Toulouse, INRA, ENVT, Toulouse, France; RiTME 1323, INRA, Ivry, France. ³BIOEPAR, INRA, Oniris, Nantes, France, ⁴ URSE, Université Bretagne Loire, Ecole Supérieure d'Agricultures (ESA), Angers, France, ⁵Unité d'Épidémiologie Animale, UR346, INRA, Saint Genès Champanelle, France, ⁶RiTME 1323, INRA, Ivry, France, ⁷IDELE, Paris, France, ⁸ASTER, INRA, Mirecourt, France, ⁹IHAP, Université de Toulouse, INRA, ENVT, Toulouse, France.

Many farmers are engaged in activities that can be considered as experiments, but until recently few of their practices were studied. This paper offers a first characterization of experiments by dairy, pig and poultry farmers working in organic, labelled or conventional systems. Data (40 interviews) were collected during an interdisciplinary research project on antibiotic use in livestock farming in France. First, we discuss the literature. In line with D.A. Schön's "reflective practitioner model", we agree that farmers mainly carry out informal experiments. Second, we provide an overview of the experimental process (type of farmer's experiment (FE), period, topics, targets and length) and the outcomes (efficiency, transfer, possible impact on antimicrobials use, renewal), drawing on farmers' subjective valuation and qualitative interview data. We find that farmers carry out multiple tests, mainly with alternative medicines. There is a clear tendency of transferring positive tests for a given pathology to one another. Third, we present seven portraits of farmers to shed light on complementary dimensions of experiments: the appeal of novelty, the role of vets and technicians, and the role of farmers groups and training. Finally, we argue that much can be learned from ethnographic investigation in order to grasp what farmers are experiencing when they endeavour to solve animal health problems.