



Webinar – 8th-9th October 2020

Using ontologies to improve animal science research

Organizing center: INRAE (France)

Target participants: Scientists, RI technicians, Bachelor, Master or PhD students

Objectives

- Understand the usefulness of the ontologies to annotate experimental dataset
- Use these ontologies and reference them in publications
- Use the ontologies adapted to SmartCow

Pre requisite skills: Basic knowledge in biology

Program

Thursday 8 October 2020, 9:45 – 15:30

9:45-10:00 Introduction of the course

10:00 -12:00 What is an ontology? by Olivier Dameron, University of Rennes 1 (France)

1. Definition
2. History
3. Examples of use of ontologies (application of ontologies)
4. Exercises:
 - i. How to build a small ontology?
 - ii. How to use ontologies to annotate data with the open-source editor Protégé?
 - iii. How to use ontologies to retrieve data with the open-source editor Protégé?

12:00 – 13:30 lunchbreak

13:30-15:30 The ontology engineering lifecycle and its best practices by Monika Solanki, Agrimetrics (UK)

Friday 9 October, 10:00 -12:00

1. Presentation of French ontologies from INRAE
 - a. ATOL ontology by Catherine Hurtaud and Linh Chi Nguyen, INRAE (France)
 - b. EOL ontology by Jérôme Bugeon, INRAE (France)
 - c. AHOL ontology by Marie-Christine Meunier-Salaün, INRAE (France)
2. Example of application/use of an ontology AHOL for professional use, by Marie-Christine Meunier-Salaün, INRAE (France)
3. Text based annotation with ontologies, Claire Nédellec INRAE (France)

Complementary practical sessions – 19th and 20th October

A one-day complementary practical session will be given twice, online, on Monday 19 October and Tuesday 20 October, for a limited number of participants (10 max per session). The program of this session and the registration procedures will be detailed during the webinar.