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| Aquaculture, salmonids, fish management, experimental designs, feed and growth trials, adaptation and behaviour trials, aquapony |
| Engineer, Head of PEIMA INRA experimental farm |
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| PEIMA is an experimental unit for studies with salmonids and is supported by 2 INRA divisions ("Animal physiology and breeding Systems" and "Animal Genetics"). The staff is composed of 12 employees: the manager, one engineer, a responsible of fish rearing, an assistant, and 8 technicians. They are skilled in conducting multidisciplinary experiments: mainly physiology of reproduction, growth and adaptation, nutrition, products quality and genetics.<br>Facilities allow experiments from egg stage to large size fish. Missions of PEIMA facilities are : (1) to preserve and/or produce original genetic resources for trout , e.g. synthetic population, lines selected for growth, utilization of plant-based diets, muscle lipid content, spontaneous masculinization,…; (2) to conduct and manage experiments supervised by INRA or external scientists; (3) to develop proofs of concept for innovation farming systems<br>PEIMA is part of Transnational Access in EU Infrastructures projects Aquaexcel and Aqauexcel$^{2020}$<br>PEIMA has been involved in a number of R&D projects, at the local, national or European level. Staff is used to work in collaboration with many research teams and other experimental facilities. |
| PEIMA team has a recognized expertise in the management of experimental designs, fish phenotyping and data collection and staff has been associated to a number of publications of different research teams.<br>More significantly, PEIMA is leader of more than 5 R&D projects in tight relationship with local relevant bodies and the private sector.<br>- Lefevre F., Cardinal M., Bugeon J., Labbé L., Médale F., Quillet E., 2015. Selection for muscle fat content and triploidy affect flesh quality in pan-size rainbow trout, *Oncorhynchus mykiss*. Aquaculture, 448 : 569-577<br>- Millot S., Péan S., Labbé L., Kerneïs T., Quillet E., Dupont-Nivet M., Bégout M-L., 2014. Assessment of genetic variability of fish personality traits using rainbow trout isogenic lines. Behavior Genetics, 44(4): 383-393.<br>- Labbé L., Lefevre F., Bugeon J., Fostier A., Jamin M., Gaume M., 2014. Rainbow trout farming in Recirculating Aquaculture System (RAS): An innovative and environmental friendly system. INRA Productions animals, 27 (2) SI : 135-145.<br>-Violaine Colson ; Bastien Sadoul ; Claudiane Valotaire ; Patrick Prunet ; Matthieu Gaumé ; Laurent Labbé Welfare assessment of rainbow trout reared in a Recirculating Aquaculture System: Comparison with a Flow-Through System · Nov 2014 · Aquaculture<br>- Le Boucher R., Dupont-Nivet M., Vandeputte M., Kerneïs T., Goardon L., Labbé L., Chatain B., Médale, F., Quillet E., 2012. Selection for adaptation to dietary shifts: towards sustainable breeding of carnivorous fish. PLoS ONE, 7(9): e44898. |