

# Emilie Derisoud

4<sup>th</sup> year PhD student on the effect of equine maternal environment on the embryo, its environment, the placenta and the offspring



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26 rue des prés

91120 PALAISEAU, FRANCE

Nationality: French

28 years old

## IT SKILLS

Excel, Word, PowerPoint, One Note, Graphpad Prism, Zotero, Mendeley, Rstudio-statistics software, basic level in bash language, Photoshop, Lightroom

## LANGUAGES

**French:** Native language

**English:** Professional use, TOEIC in 2016 (885/990)

**Italian:** Basic level

## PERSONAL INTERESTS

**Sports:** Horse riding, soccer

**Hobbies:**

Animal and landscape photography

**School activities:** Treasurer of *Gala de l'Agro*, a student association, whose role is to organize the gala of the school Agrocampus Ouest

**Volunteer work:**

- Student representative on the board of the BREED research unit since 2020

- Work with dairy cows and calves on dairy farms (*EARL L'Eclipse des Alpes* and the farm from *LEGTA Le Valentin*, both in France)

- Organization of a travel for 20 Canadians people in France on the topic of French Horse Industry



## EDUCATION

2019

**Maisons-Alfort  
France**

Level 1 animal experimentation accreditation  
*National Veterinary school of Maisons-Alfort*

2018-21

**Jouy-en-Josas  
France**

Doctorate student

*University of Paris Saclay, AgroParisTech & UMR Biology of Reproduction, Environment, Epigenetics and Development, INRAE*  
**Supervision: Pascale Chavatte-Palmer**  
Study of the effects of lactation, age and parity of mares on embryo, uterine environment, placentas, long-term development and health of foals

2014-17

**Rennes  
France**

Master's degree in Animal Science

*Agrocampus Ouest, top French agronomic engineering school*

2013-14

**Valence  
France**

One-year intensive preparation course for the entrance exams to top French agronomic engineering school  
*LEGTA Le Valentin*

2011-13

**Avignon  
France**

Two-year university degree in laboratory biology

*University Institute of Technology of Avignon*

## INTERNSHIP

2017

(6 months)

**Jouy-en-Josas  
France**

2<sup>nd</sup> year master internship

*UMR Biology of Development and Reproduction, INRA*  
**Supervision: Pascale Chavatte-Palmer & Anne Couturier-Tarrade**  
Study of the effects of oral arginine supplementation on mare's carbohydrate metabolism, placental vascularization and on biometry of the foal at birth

2015-16

(5months)

**Guelph  
Canada  
(Ontario)**

1st year master internship

*University of Guelph*  
**Supervision: Katrina Merkies**  
Study on the use of various tack and equipment on horses and a study on industry view of perception and practice of equine management in Canada  
Poster in the International Society for Equitation Science 2016 (Saumur, France)

2013

(3 months)

**Jouy-en-Josas  
France**

2<sup>nd</sup> year university degree internship

*UMR Biologie du Développement et Reproduction, INRA*  
**Supervision: Delphine Ralliard-Rousseau**  
Study on the consequences of maternal hyperglycemia during periconceptional preimplantation period on the composition of fatty acids in rabbit fetus and placentas

## WORK EXPERIENCES

August 2017-18

**Aimargues  
France**

Technician in animal facilities

*Kennel & Cattery facilities, Royal Canin SAS*  
**Supervision: Pascal Boisot**  
Management of palatability measurements of different feeds in dogs & cats

## **Articles:**

Chavatte-Palmer P., **Derisoud E.**, Robles M. (2022) Pregnancy and placental development in horses: an update. *Domestic Animal Endocrinology*, 79, 106692

**Derisoud E.**, Auclair-Ronzaud J., Palmer E., Robles M, Chavatte-Palmer P. (2021) Female age and parity in horses: how and why does it matter? *Reproduction, Fertility and Development* <https://doi.org/10.1071/RD21267>

Weijden, V. A., Bick J. T., Bauersachs S., Rüegg A. B., Hildebrandt T. B., Goeritz F., Jewgenow K., Giesbertz P., Daniel H., **Derisoud E.**, Chavatte-Palmer P., Bruckmaier R. M., Drews B., Ulbrich S. E. (2021) Amino Acids Activate MTORC1 to Release Roe Deer Embryos from Decelerated Proliferation during Diapause. *Proceedings of the National Academy of Sciences* 118 (35) e2100500118.

Benammar, A. \*, **Derisoud E.\***, Vialard F., Palmer E., Ayoubi J, Poulain M., Chavatte-Palmer P. (2021) The Mare: A Pertinent Model for Human Assisted Reproductive Technologies?. *Animals*, 11(8), 2304. \* *co-first authors*

Robles, M., Couturier-Tarrade, A., **Derisoud, E.**, Geeverding, A., Dubois, C., Dahirel, M., Aioun, J., Prezelin, A., Calvez, J., Richard, C., Wimel, L., Chavatte-Palmer, P. (2019). Effects of dietary arginine supplementation in pregnant mares on maternal metabolism, placental structure and function and foal growth. *Scientific reports*, 9(1), 6461.

Rousseau-Ralliard, D., Couturier-Tarrade, A., Thieme, R., Brat, R., Rolland, A., Boileau, P., Aubrière, MC., Daniel, N., Dahirel, M., **Derisoud, E.**, Fournier, N., Schindler, M., Duranthon, V., Fischer, B., Navarrete Santos, A., Chavatte-Palmer, P. (2019). A short periconceptual exposure to maternal type-1 diabetes is sufficient to disrupt the fetoplacental phenotype in a rabbit model. *Molecular and cellular endocrinology*, 480, 42-53.

Dubois, C., Nakonechny, L., **Derisoud, E.**, & Merckies, K. (2018) Examining Canadian equine industry participants' perceptions of horses and their welfare. *Animals*, 8 (201), 1-15.

Merckies, K., Nakonechny, L., DuBois, C., & **Derisoud, E.** (2018). Preliminary study on current perceptions and usage of training equipment by horse enthusiasts in Canada. *Journal of Applied Animal Welfare Science*, 21(2), 141-152.

## **Preprints:**

**Derisoud, E.**, Jouneau L., Dubois C., Archilla C., Jaszczyszyn Y., Legendre R., Daniel N., Peynot N., Dahirel M., Auclair-Ronzaud J., Wimel L., Duranthon V. & Chavatte-Palmer P. (2021) Maternal Age Affects Equine Day 8 Embryo Gene Expression Both in Trophoblast and Inner Cell Mass. *BioRxiv*.

## **Abstracts & Oral communications:**

**Derisoud E.**, Gastaldo S., Valais O., Jouneau L., Dubois C., Durand A., Dahirel M., Prezelin A., Jaszczyszyn Y., Wimel L., Chavatte-Palmer P. (2021, September). Maternal age alters gene expression in blastocyst trophoblast and term placenta as well as term placental structure. *Placenta*. 112. e44-e45 (*Abstract selected for NIH E-poster award*)

**Derisoud E.**, Jouneau L., Dubois C., Margat A., Gourtay C., Archilla C., Jaszczyszyn Y., Dahirel M., Daniel N., Peynot N., Briot L., De Geoffroy F., Wimel L., Duranthon V., Chavatte-Palmer P., (2021, May). Sexual dimorphism in equine D8 blastocysts. *Journal of Equine Veterinary Science*. 100. 103568. (*Abstract & oral presentation in Equine Science Society Symposium 2021*)

**Derisoud E.**, Durand A., Garrigue M., Auclair-Ronzaud J., Jousset T., Dubois C., Dahirel M., Wimel L., Chavatte-Palmer P., (2021, May) Distribution of carbohydrate concentrated feeds in 8 meals/24H during the first winter improves feed efficiency without affecting carbohydrate metabolism nor incidence of osteochondrosis in foals. *Journal of Equine Veterinary Science*. 100. 103534. (*Abstract & oral presentation in Equine Science Society Symposium 2021*)

**Derisoud, E.**, Jouneau, L., Dubois, C., Archilla, C., Daniel, C., Peynot, N., Jaszczyszyn, Y., Dahirel, M., Wimel, L., Duranthon, V. & Chavatte-Palmer P. (2020, June) Mares' age affects embryo ICM and trophoblast RNA-seq transcriptome at about D8. *Journal of Equine Veterinary Science*. 89, 103031 (*Abstract & selection for oral presentation in International Symposium of Equine Embryo Transfer and Technology – cancelled due to COVID crisis*)

**Derisoud, E.**, Hankele, A., Jouneau, L., Dubois, C., Rousseau-Ralliard, D., Dahirel, M., Wimel, L., Ulbrich, S. & Chavatte-Palmer, C. (2020, January). Proteomic, metabolomic and fatty acid composition in lactating and non-lactating mares' uterine fluids. *Reproduction, Fertility and Development* 32 (2), 229-230 (*Abstract & Oral presentation in New-York 2020 International Embryo Technology Society meeting, Peter Farrin Award & Top 10 student competition finalist*)