

## STAPANE Lilian

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## INRA-Tours-PhD student

### Formations

**October 2018-January 2019: PhD mission** (3.5 months) - **Departamento de Petrologia y mineralogia de la Universidad de Granada (Spain)**

Topic: *Biophysical analysis of eggshell with varying quality.*

Technical skills: Electron microscopy (SEM and TEM), infrared spectroscopy (FTIR), X-ray diffraction, 2-D X-ray diffraction, thermogravimetric analysis, *in vitro* crystallization, polarized-light microscopy.

**2018-2019:** Teacher/tutor for the 3rd year of the bachelor of Superior School of Biology-Biochemistry-Biotechnology (ESTBB).

**2017:** Animal experimentation certificate 1 – **Université François Rabelais de Tours**

**January 2016: Agreenium international research facility program (6th year group)**

**2016/2019: PhD student**

Research team « Egg defenses, valorisation and evolution » Avian Biology and poultry science- **INRA (Tours)**

Topic: Role of key proteins (EDIL3 and MFGE8) involved in the biomineralization of the hen eggshell.

Molecular Biology, Biochemistry, Animal experimentation, Biophysics.

Technical skills: Protein purification, RNA extraction, RT-qPCR, SDS-Page, Western-Blot, Immunohistochemistry, Microscopy, Biophysical tests, Statistics.

**2015/2016: 2<sup>nd</sup> year of European master's degree** Predictive and Integrative Animal Biology- Animal breeding and genetics (Wageningen University - The Netherlands) - **AgroParisTech (Paris)**

**2014/2015: Master 1** Life and environmental sciences and technology- **Integrative Biology- AgroParisTech (Paris)**

**2014:** Animal experimentation certificate 2 - **VetAgroSup (Lyon)**

**2011/2014: 1<sup>st</sup> year to 3<sup>rd</sup> year (Bachelor degree)** – Superior School of Biology-Biochemistry-Biotechnology (ESTBB) cursus Laboratory assistant, Université Catholique (Lyon)

### Professional experiences

**January/June 2016: Internship Master 2** (6 months) - **Institut de Biologie Paris Seine de l'Université Pierre et Marie Curie**

Research team « Skeleton evolution and development », supervisor: Dr. Jean-Yves SIRE

Topic: *Highlighting of a serine protease potentially involved in the enamel maturation.*

**April/July 2015: Internship Master 1** (4 months) – **Zoopysiological center of Copenhagen University (Denmark)**

Research team « Cell Biology and Physiology », supervisor: Pr. Nadja MOBJERG

Topic: *Adaptation to extrem environment of the tardigrades*

Zool.J.Linn.Soc.: "Osmotic stress tolerance in semi-terrestrial tardigrades"

**January/February 2015: Internship in Animal genetic** (1-month) - **INRA de Jouy en Josas**

Research team « Genetic, Immunity, Health » **UMR GABI**, supervisors: Dr. Bed'hom and Dr. Tixier-Boichard

Topic: *Relation between several phenotypes and EDNRB2 gene in the chicken*



**March/August 2014: 3<sup>rd</sup> year ESTBB internship (5 months) - Université Claude Bernard Lyon 1**

Research team « Muscle Biology and Pathogenesis » - Center of genetic, molecular and cellular physiology, supervisor: Pr. Gieseler

Topic: *Study of the autophagy in the muscular Duchenne pathology*

**May/September 2013: 2<sup>nd</sup> year ESTBB internship (4 months) - Ecole Normale Supérieure-Lyon (ENS)**

Research team « Plasticity and evolution of cell division » - Laboratory of molecular and cellular biology, supervisor: Dr. Delattre

Topic: Characterization of mitotic spindle in different nematode species and adjustment of transgenic technics in these species

## Communications

### Congress

Stapane et al., 2018: MFGE8 and EDIL3 key proteins involved in the biomineralization of the hen eggshell. Oral communication-XV<sup>th</sup> European Poultry Conference-Dubrovnik (Croatia)

Stapane et al., 2018: MFGE8 and EDIL3 key proteins involved in the biomineralization of the hen eggshell. Oral communication-20<sup>th</sup> JFBTM-Monaco

Stapane et al., 2017: MFGE8 and EDIL3 key proteins involved in the biomineralization of the hen eggshell. Poster communication. Biotechnocentre-Seillac

Stapane et al., 2016: Highlighting of a serine protease potentially involved in the enamel maturation. Poster communication 18<sup>th</sup> JFBTM-Nancy

### Publications

Stapane et al., 2019: EDIL3 and MFGE8 ensured a central role in chicken eggshell biomineralization (in progress)

W.T Heidemann et al., 2016: Osmotic stress tolerance in semi-terrestrial tardigrades. Zoological journal of the Linnean Society

## Languages/ Informatics' skills

### English

**Spanish** (low skills)

**Software:** Pack office, R, Ape [A Plasmid Editor], Mega7, Seaview, BioEdit, GraphPad Prism, Minitab, Image J and databases (NCBI, Ensembl)

## Scientific community

World Poultry Science Association