Ecole Doctorale
« Structure et Dynamique des Systèmes Vivants »

Doctoral School
« Structure and Dynamics of Living Systems »
1. Who are we?
2. The Paris-Saclay Context
3. The SDSV Doctoral School
4. Questions / Answers
1. Who are we?
2. The Paris-Saclay Context
3. The SDSV Doctoral School
4. Questions / Answers
The World of structural analysis of biomolecules

- Proteomic and PTM (S-S bonds, glycosylation, sulfation....): role of HSulf2 endosulfatase in cancer
- Glycomic (gagosylation): mucopolysaccharidoses
- Structure and dynamics of the formation of biomolecular complexes: Hemolytic uremic syndrome (HUS), C3b/FH

C3b 177 kDa
FH 155 kDa

Synchrotron Footprinting
Pierre CAPY
Pierre.capy@egce.cnrs-gif.fr

The World of transposable elements (selfish DNA)

- Structural impact on genomes
- Impact on genome expression and regulation
- Regulation of their activity through small RNA (epigenetics)
- Relationship between stress and TE activity
- Dynamics in genomes, populations and species
The World of mitochondria, cell death and senescence

- Mitochondrial biogenesis
- Structure and replication of mitochondrial nucleoids
- Cellular immortalization and senescence
- Tumor suppressors in apoptosis and senescence
- Mitochondria in cell death process
- Reactive oxygen species and cell death
Jean-Luc PERNODET
jean-luc.pernodet@i2bc.paris-saclay.fr

Microbial specialized metabolites (antibiotics)

- Elucidation of biosynthetic pathways
- Regulation and evolution of the specialized metabolism
- Genomics of Actinobacteria
- Mobile genetic elements and gene transfer in Actinobacteria
Who are we?

Fabienne MALAGNAC
fabienne.malagnac@i2bc.paris-saclay.fr

Epigenetic modifications & chromatin structure

✧ genome stability and dynamics
✧ gene regulation during developmental processes (sexual reproduction)
Jean-Christophe SANDOZ
jean-christophe.sandoz@egce.cnrs-gif.fr

Evolution of insects’ neural systems and behavior

- Chemical senses (olfaction, gustation) and adaptation
- Comparative analysis of brain anatomy (bees, ants, wasps)
- Roles and diversity of olfactory receptor proteins
- *In vivo* imaging of brain responses to odorants
- Olfactory learning, memory and plasticity
1. Who are we?
2. The Paris-Saclay Context
3. The SDSV Doctoral School
4. Questions / Answers
An extensive local network
The Paris-Saclay context

10 composantes universitaires

4 établissements composantes

2 universités membres-associées

7 organismes nationaux de recherche

FACULTÉ DE MéDECINE
FACULTÉ DE PHARMACIE
FACULTÉ DES SCIENCES
FACULTÉ DES SCIENCES DU SPORT
FACULTÉ JEAN MONNET DROIT-ÉCONOMIE-GESTION

IUT DE CACHAN
IUT DE SCEAUX
IUT D’ORSAY

AgroParisTech
CentraleSupélec

Université Paris-Saclay
Paris-Saclay University in figures

FORMATION AND RESEARCH

48,000 étudiants

24,000 en premier cycle

12,000 en master

4,600 en doctorat

18 graduate schools et institut

8,100 chercheurs et enseignants-chercheurs

13,000 publications par an

8,500 administratifs et personnels techniques

275 laboratoires

13% de la recherche française

500 plateformes expérimentales
Paris-Saclay University in figures

**PhD**

- **4,600** PhD students
- **21** Doctoral schools
- **45%** International PhD students
- **4,700** Supervising researchers and academic staff
- **18** Graduate schools and Institute
Around the world

Ranked 14th in the ARWU ranking (2020)

Over 400 international partners

165 ERC grants

10 Fields medals

Leader of « Alliance for global health »
A world class intensive research university

Ranked among the best in the world
A world class intensive research university

 Ranked among the best in Europe
A world class intensive research university

Ranked among the best in the world and in France
Highly Cited Researchers (HiCi) of the Clarivates analytics 2020 ranking (18/11/2020)

Of the 6,167 HiCi, 160 are affiliated with institutions in France, which ranks it 8th worldwide.

<table>
<thead>
<tr>
<th>Institution</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Université Paris-Saclay</td>
<td>21.3%</td>
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<tr>
<td>Université de Bordeaux</td>
<td>2.5%</td>
</tr>
<tr>
<td>Institut National de la Sante et de la Recherche Medicale</td>
<td>3.1%</td>
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<tr>
<td>Aix-Marseille Université</td>
<td>5.6%</td>
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<tr>
<td>Centre National de la Recherche Scientifique</td>
<td>3.8%</td>
</tr>
<tr>
<td>Centre Léon Berard</td>
<td>0.6%</td>
</tr>
<tr>
<td>Sorbonne Université</td>
<td>6.3%</td>
</tr>
<tr>
<td>PSL Research University Paris</td>
<td>3.1%</td>
</tr>
<tr>
<td>Université Grenoble Alpes (UGA)</td>
<td>5.6%</td>
</tr>
</tbody>
</table>

**Diagram:**
- **Université Paris Saclay:** 21.3%
- Other institutions' affiliations are shown in the chart with respective percentages.
Over 60 UPSaclay active international partnerships (and more than 400 through UPSaclay’s members)

Master’s tracks taught in English: 15 %

International Master’s Students: 38 %

International PhD students: 42%

Approx. 45 CNRS International Associated Labs (more than 25 % of all French « IALs »)
European University alliance for GLObal Health

EUGLOH

1.

université (Coordinateur)
PARIS-SACLAY

2.

LUND UNIVERSITY

3.

University of Szeged

4.

U. PORTO
UNIVERSIDADE DO PORTO

5.

LMU
LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN
European University alliance for GLObal Health

EUGLOH

1. université PARIS-SACLAY (Coordinateur)
   - France

2. Lund University
   - Sweden

3. University of Szeged
   - Hungary

4. Universidade do Porto
   - Portugal

5. LMU
   - Germany

https://www.universite-paris-saclay.fr/fr/eugloh
Meet challenges in our society

- Health and well-being
- Energy, Climate, Environment, Sustainable Development
- Biodiversity, Agriculture & Food
- Digital Transformation and Artificial Intelligence (AI)
- Transport and Mobility
- Aerospace and Aeronautics
- Industrial Renewal
General organisation of Paris-Saclay University

3 main areas

**Life and health science**

**Science and engineering**

**Social sciences and humanities**

15 disciplinary GS + 2 transversal GS + 1 institute

<table>
<thead>
<tr>
<th>GS1</th>
<th>GS2</th>
<th>GS3</th>
<th>GS17</th>
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<tbody>
<tr>
<td>Teams/ labos</td>
<td>Teams/ labos</td>
<td>Teams/ labos</td>
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<td>Doctorat</td>
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<td>Masters</td>
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</tbody>
</table>

Double Licences UPSaclay

- DUT
- Licence pro
- Licence

Universitary school of first cycle Paris-Saclay
GS organisation in the Paris-Saclay University

15 disciplinary GS + 2 transversal GS + 1 institute

Science and engineering

Chimie

Géoscience, Climat, Environnement, Planètes

Physique

Computer Science

Mathématiques

Sciences de l'ingénierie et des systèmes

Social sciences and humanities

Droit

Economie & Management

Humanités - Sciences du Patrimoine

Sociologie et Science politique

Life and health science

Métiers de la recherche et de l'Enseignement Supérieur

Education, Formation, Enseignement

Institut des Sciences de la Lumière

Biosphera

Life sciences and Health

Santé et médicaments

Sport, Mouvement, Facteurs humains

Santé Publique
**AREA: Life and health science**

PhD students of SDSV doctoral school are in:

- LSH (Life Sciences and Health)
  Coordinator = Faculty of Sciences

- BioSphERA (Biologie, Société, Ecologie & Environnement, Ressources, Agriculture & Alimentation)
  Coordinator = AgroParisTech
The GS LSH in its ecosystem

Graduate School
Life Sciences and Health

ED 582 Cancérologie, Biologie, médicine, santé (env. 200 doctorants)
ED 568 Signalisation et réseaux intégratifs en biologie (env. 100 doctorants)
ED 569 Innovation thérapeutique : du fondamental à l’appliqué (env. 250 doctorants)
ED 577 Structure et dynamique des système vivants (env. 250 doctorants)
ED 581 Agriculture, Alimentation, Biologie, Environnement (env. 230 doctorants)
ED 567 Sciences du végétal : du gène à l’écosystème (env. 100 doctorants)
EUR SPS – GR (Saclay Plant Sciences)

Master Biologie-Santé
(env. 750 étudiants)

Master Bioinformatique
(env. 70 étudiants)

Sciences de la Vision et prise en charge de l’acuité visuelle (env. 150 étudiants)
Ergonomie (env. 40 étudiants)

Chimie
(env. 250 étudiants)

Computer Science

Sport, Mouvement, Facteurs Humains

Master Biologie-Santé
(env. 750 étudiants)

BioSphERA

Santé Médicaments

Sciences du médicament et des produits de santé (env. 400 étudiants)

ED 577 Structure et dynamique des système vivants (env. 250 doctorants)

EUR SPS – GR (Saclay Plant Sciences)

Chimie
(env. 250 étudiants)

Computer Science

Master Bioinformatique
(env. 70 étudiants)

Sciences de la Vision et prise en charge de l’acuité visuelle (env. 150 étudiants)
Ergonomie (env. 40 étudiants)

Sport, Mouvement, Facteurs Humains

Master Biologie-Santé
(env. 750 étudiants)

BioSphERA

Santé Médicaments

Sciences du médicament et des produits de santé (env. 400 étudiants)
Life Sciences and Health: from understanding the fundamental mechanisms to applications in Biotechnology and Medicine
Structuration into Graduate programs in the GS LSH

> 330 research teams
> 70 laboratories

Number of research groups per Graduate Program

<table>
<thead>
<tr>
<th>Graduate Program</th>
<th>Number of Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry &amp; Structural Biology</td>
<td>100</td>
</tr>
<tr>
<td>Bioinformatics</td>
<td>80</td>
</tr>
<tr>
<td>Oncology &amp; Biotherapy</td>
<td>60</td>
</tr>
<tr>
<td>Cell biology, Development, Aging, Reproduction</td>
<td>40</td>
</tr>
<tr>
<td>Clinical Sciences</td>
<td>20</td>
</tr>
<tr>
<td>Endocrinology, Biosignaling, Metabolism &amp; Physiology</td>
<td>20</td>
</tr>
<tr>
<td>Evolutionary Biology</td>
<td>20</td>
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<tr>
<td>Genetics &amp; Genomics</td>
<td>20</td>
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<tr>
<td>Immunology</td>
<td>20</td>
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<tr>
<td>Microbiology</td>
<td>20</td>
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<tr>
<td>Neurosciences</td>
<td>20</td>
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<tr>
<td>Systems &amp; Synthetic Biology</td>
<td>20</td>
</tr>
</tbody>
</table>

6 Doctoral Schools, > 600 Students

ED1 : Structure et dynamique des systèmes vivants
ED3 : Cancérologie, Biologie, Médecine, Santé
ED5 : Agriculture, Alimentation, Biologie, Environnement, Santé

ED2 : Signalisation et réseaux intégratifs en biologie
ED4 : Innovation Thérapeutique : du Fondamental à l’Appliqué
ED6 : Sciences du végétal: du gène à l’écosystème
In January 2021

Election of PhD students representative – 3 PhD Students

- Display of electoral lists: November 30
- Submission of candidate lists: January 11
- Ballot: last week of January

How to be a candidate?

GENERAL:

Shared table on the web for GS LSH:
The Doctoral Schools of the GS LSH

Old relationships with others doctoral school

Now, relationships inside the GS LSH
Autumn School: Attacking societal challenges through different approaches in life sciences: a synthetic project building approach

Where? Biological station of Paimpont (https://station-biologique-paimpont.univ-rennes1.fr/)

When? 5 - 9 November, 2018

Why? Learn to respond to a call for proposals and write a project that mobilises different approaches in Biology.

How? Individual and group effort in project formulation, experimental and work package planning and coordination, aided by regular informal interactions with a team of confirmed professors and researchers. Talks about constructing research networks by these experts. Oral presentation and defence of the project.

Who? Biology doctoral researchers (mainly from EDs of Paris-Saclay)

How many? 35 doctoral researchers and 8 or 9 experts

Organisateurs et contacts:
- Jacqui SHYKOFF: jacqui.shykoff@u-psud.fr
- Alexandre PÉRY: alexandre.pery@agroparistech.fr
- Pierre CAPY: pierre.capy@u-psud.fr
- Yannick OUTREMAN: yannick.outreman@agrocampus-ouest.fr
1. Who are we?
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The SDSV organisational chart

Scientific board

1) 26 members including:
   - Director and Vice-directors (4 members)
   - 4 members of local units
   - 6 scientific experts from SDSV
   - 5 representatives of PhD students
   - 6 scientific experts outside SDSV
     (academic research, private companies, socio-economic word)
   - 1 engineers / technicians

2) Executive committee:
   - 7 members of scientific board

Administrative assistance

- Sandrine LE BIHAN, 150 PhD students
  + overall administrative management
- Muriel LE POULARD, 80 PhD students

Web site - Communication

- Rozenn LE GUYADER

Direction de l’ED SDSV

*Florence GONNET, Directrice
*Pierre CAPY, Dir.-Adj.,
  - transition with J.C. SANDOZ
*Bernard MIGNOTTE, Dir.-Adj.
*Jean-Luc PERNODET, Dir.-Adj.,
  - transition with F. MALAGNAC
Who should you contact?

**Administration**
For all administrative points: registration, PhD defense, ADUM problems

- Muriel LE POULARD for all UEVE, UVSQ and ENS units, with IPS2 Lab., INRAE units except GABI Lab.
  muriel.lepoulard@univ-evry.fr

- Sandrine LE BIHAN for all the others UPSaclay units, including PSL units and GABI Lab., without IPS2 Lab.
  ed.sdsv@universite-paris-saclay.fr

**Direction**
For all others points: annual interviews, specific problems...

- Florence Gonnet for UEVE units and IPS2 Lab.
- Bernard Mignotte for all UVSQ units, including BREED and VIM units
- Pierre Capy, Jean-Luc Pernodet, Fabienne Malagnac, Jean-Christophe Sandoz, for UPSaclay and PSL units, and GABI Lab.
<table>
<thead>
<tr>
<th>ADMINISTRATION CONTACT</th>
<th>UPSaclay Units</th>
<th>PSL Units</th>
<th>IPS2 Lab.</th>
<th>GABI Lab.</th>
<th>UVSQ Units</th>
<th>UEVE Units</th>
<th>ENS Units</th>
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<td>Muriel LE POULARD</td>
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<td>DIRECTION CONTACT</td>
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<td>UEVE Units</td>
<td>ENS-UPS Units</td>
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<td>Pierre CAPY</td>
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<td>Florence GONNET</td>
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<td>Bernard MIGNOTTE</td>
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<td>Isabelle GUENAL</td>
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</table>
Scientific direction and representatives of establishments (executive committee)

- Florence Gonnet, PR Université Évry-Val d'Essonne, directrice de l'ED
- Pierre Capy, PR Paris-Saclay, directeur adjoint
- Bernard Mignotte, PR Université Versailles-St-Quentin, directeur adjoint
- Jean-Luc Pernodet, DR CNRS, Paris-Saclay, directeur adjoint
- Graça Raposo, DR CNRS, PSL, teaching at Institut Curie
- Philippe Fossé, DR CNRS, ENS Paris-Saclay
- Jean-Christophe Sandoz, DR CNRS, transition with P. Capy
- Fabienne Malagnac, PR Paris-Saclay, transition with J.-L. Pernodet
- Isabelle Guénal, PR Université Versailles-St-Quentin, transition with B. Mignotte in 2021

Representatives of Engineers, Technicians and Administratives staffs

- Sandrine Le Bihan, ITA CNRS, GQE-Le Moulon
- Gilles Lemaitre, Research engineer UEVE HDR, ISTEM
Representatives of Research Units (executive committee)

- Ana BujBello, DR, Genethon, Évry
- Marie-Noëlle Dieudonné, PR Université Versailles-St-Quentin
- Henri-Jean Garchon, PR Université Versailles-St-Quentin
- Agathe Guilloux, PR à l'UEVE, mathématiques appliquées à la biologie
- Nathalie Bonnefoy, DR CNRS, pour Frédéric Boccard, Directeur de l'I2BC
- Charbel Maroun : CR INSERM, pour David Pastré, PR Université Évry-Val d'Essonne
- Claire Rogel Gaillard, DR INRA
- Delphine Sitterlin, MC-HDR, I2C UVSQ
- Julie Soutourina, CEA

Representatives of research units (outside Paris-Saclay)

- Jean-Charles Cadoret, MCF à Paris-Diderot, Institut Jacques Monod
- Cosmin Saveanu, Institut Pasteur
Representatives of Industry (executive committee)

Tamara Smokvina, Danone Nutricia Research - DANONE

Invited members for the entrance examination

• Stéphane Aymerich, DR INRA
• Olivier Lespinet, PR Université Paris-Saclay
• Elisabeth Petit-Texeira, DR, GenHotel, UEVE
• Jean-Michel Rossignol, PR émérite, expert in Virology
• François Rouyer, DR INSERM
• Dominique de Vienne, PR-EM UPSaclay, expert in quantitative Genetics

Representatives of PhD Students

• Gina Consentino, 2IC
• Luisa Ferreira Dos Santos, I2BC
• Marion Hoareau, LGBC
• Charlotte Mallart, I2BC
• Mohammed Seba, I2BC
In 2018: Election of representatives of PhD students

- Electronic voting - using Balotilo
- Open on the 10th of December
- To the 14th of December
- Vote per site
  - UEVE (Evry)
  - UVSQ (Versailles St Quentin)
  - Paris-Sud, ENS, PSL

UEVE (Number of seats = 1)
Julie Lê-Hoang
Génoscope

UVSQ (Number of seats = 2)
Marion Hoareau
Gina Cosentino
LGBBC
2IC

Paris-Sud (Number of seats = 2)
Thomas Denecker
Mohammed Seba
Laura Belot
Charlotte Mallart
Luisa Ferreira dos Santos
I2BC

In 2021, there will be other elections.
Do not hesitate to submit your candidacy!
Scientific domains

- Structure and spatial organization of macromolecules
- Structural and functional dynamics of genomes
- Environmental genomics and transcriptomics
- Molecular, cellular and developmental processes
- Molecular evolution (structural and functional)
- Gene and cell therapies
- Microbiology, virology
- Immunology, hematology
- Population genetics and genomics and quantitative genetics
- Chemistry, physics, mathematics and bioinformatics for systems understanding in an integrative approach (Living Systems Modeling, Systems Biology, Synthetic Biology)
Scientific units

- Research organisms and Universities: UPSaclay, UVSQ, UEVE, ENS, CNRS, INRA, CEA, INSERM, Curie Institute, Pasteur Institute, Jacques Monod Institute, several hospitals...
  - I2BC (Institute for Integrative Biology of the Cell)
  - IPS2 (Institute Plant Science Paris-Saclay)
  - NeuroPSI (Paris-Saclay Institute of Neuroscience)
  - IDEEV (Institute of Diversity, Ecology and Evolution)
  - MC2I (Cell Death, Inflammation, Infection)
  - CNRGH (National Center for Research in Human Genomics)
  - Micalis Institute
  - Genethon (INTEGRARE)
  - GM (Metabolic Genomics)
  - Few groups abroad: USA, Madagascar...

Data of SDSV doctoral school (3 universities)

* 511 supervisors and co-supervisors, whose 338 HDR
* Approximately 250 PhD students: 60% of women, more than 10 nationalities
- **Governmental Fellowships**
  - Competitive exam in June
  - All procedures are on the web site of Paris-Saclay and on that of SDSV

- **External Fellowships (before and after the competitive exam)**
  - Audition by the executive committee in autumn

- **Selection criteria**
  - Student Curriculum Vitae: adequacy between training/stages and PhD project
  - The quality of the training file
  - The rate of supervision of the HDR
  - Relevance and feasibility of the project in 3 years
The SDSV web sites

You must send your publications as 1st author to the ED, to advertise yourself but also to have the opportunity to discuss with other PhD students of the ED who would work on subjects or would use similar approaches.

You must send your date of PhD defense, which may be a great interest to other PhD students.
http://www.adum.fr/

English version

Ask if you are lost....
REGISTRATION on ADUM

The ADUM

LE RÉSEAU ADUM

Etablissement

ECOLES DOCTORALES
REGISTRATION on ADUM

PROFILE

Only doctoral students or doctors who are part of one of the partner institutions or doctoral schools may create an account in order to apply and register to a doctorate.

Before creating your account and in order for you request to be valid, you must have contacted your future thesis supervisor, the laboratory and have chosen a research subject.

Once you have requested an account, the administrative agent in charge who was selected by the institution that will award the doctorate will have full authority to activate, or not, your profile and make it visible on the web (if you chose to do so).

To create your account CLICK HERE

Your browser must accept cookies.

To access your personal account CLICK HERE.

DISPLAY OPTIONS

Every doctoral candidate and doctor who owns an ADUM profile can decide what information is available on the internet.

By default, and if you have agreed to be visible online when you created your profile, only the information relating to your thesis and to the diploma you obtained before will be available.

You will be able to add your CV and your photo to your profile, indicate your on-going work and your work experience.

In order to choose your display options, log in and go to the “Display management” tab in your ADUM profile.
**REGISTRATION on ADUM**

**ADUM - Important reminders**

- The ADUM file must be completed with as much details as possible, in terms of name, contact (phone, email, etc.), affiliation, etc..

- The training courses taken must also be filed in ADUM with the appropriate certificate. In addition, we remind you that *training in scientific ethics is mandatory.*

- Registration files must be completed carefully so as not to be rejected. **The PDF must contain all the supporting documents requested** and in the order requested to facilitate the work of managers. Any incomplete file will be rejected and the duration of its processing will therefore be extended.

- Registration is totally **dematerialised**: you must finalyse your registration, then your thesis director must sign, then your unit director, then the doctoral school, before the UPSaclay presidency.

- **ADUM is a Database**
  - Must be **up-dated** during the PhD and during (at least) 3 years after the PhD defense
  - Many informations / survey ... will be sent via ADUM
Follow-up during the thesis

- **Annual interview for first and all other registrations**
  - With one member of the direction team
    - Florence Gonnet for UEVE units and IPS2 Lab.
    - Bernard Mignotte for all UVSQ units, including BREED and VIM units
    - Pierre Capy, Jean-Luc Pernodet, Fabienne Malagnac, Jean-Christophe Sandoz, for UPSaclay and PSL units, and GABI Lab.
  - Presentation of the doctoral school:
    - Structure, rules, right and duty of PhD students

- **PhD Committee: compulsory 6 MONTHS AFTER the first registration**
  - First year in January-February
  - Second year
  - Third year
  - Every year before the next registration (no derogation)
PhD Committee: Planning to keep in mind

- One meeting of the committee each year

- Planning of the experiments for the coming year

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>October</td>
<td>October</td>
<td>October</td>
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</table>

Committee 1
Within the first 6 months
If possible before February

Committee 2
Before January

Committee 3
At least 6 months before the end of the experiments
Between October and December
PhD Committee

Objectives

The aim of the thesis committee is to review the scientific aspects (on the programming and progress of the work), on the supervision, on the training courses and the professional project of the PhD student. It allows too to specify objectives for the following year.

Composition

The thesis committee consists of at least two scientific experts chosen outside the doctoral laboratory (including the tutor) and the thesis supervisor(s). The experts are proposed by the PhD student in consultation with the thesis supervisor(s) and submitted to the Direction of the Doctoral School for approval.
The meeting organization is entirely managed by the PhD student, who must contact the persons concerned sufficiently in advance to respect the deadlines.

The proposed sequence of the meeting is as follows:
- Presentation of the work by the PhD student and then scientific discussion
- Discussion on the professional project and the trainings
- Separate interview of the thesis supervisor(s) by the external experts
- Separate interview of the student by the external experts.
- At the end of the meeting, a short report is written by the experts and the tutor, and DEPOSITED ON ADUM after being signed.

In particular, this report must give the opinion of the committee on the progression of the thesis project, the achievements at the time of the meeting, the difficulties encountered (scientific or personal) and whether the thesis can be pursued.
What is requested before the PhD defense?

- **Your thesis in 3 years**
  - Possible derogation for a 4th year, if there is a financial support
  - No 5th year
  - Possibility of European PhD

- **At least 100h of trainings**
  - We can help you up to 600 € per year

- **A least one paper in first author**
  - International Journal (rank A with peer review)

- **Maintain your file with up to date informations during 3-5 years after the defense**
- **Master Courses (second or first year)**
  - Check on the web site of the university
  - You do not have to take the exam

- **Doctoral School courses – check in all Doctoral Schools**
  - Training in the field of ethics (compulsory) – See for instance Polethis Paris-Saclay
  - Curie Orsay Course, Statistiques with R, Introduction to Biopython ...
  - Big Data training (M2 Gen2Ev)
  - Training in the field of imaging
  - Learn a new technics outside the PhD lab
  - ..........

- **Check the list proposed by Paris-Saclay, IRTELIS program, Collège de France**
  - General trainings
  - Languages, how to write a scientific paper, Doctoriales....

- **Congress, workshop, ...**
  - We can help you: to 600 € per year

- **Training to teach (but not teaching)**

- **SPECIAL EVENTS OF SDSV**
  - The annual day of the doctoral school
  - Particular events

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Ask for a certificate to the person in charge of the training and put it on ADUM
Première Journée de l'ED SDSV

Mercredi 4 mars 2015 – IMAGIF, Campus CNRS, Gif-sur-Yvette

Programme

8h45 : ouverture-accueil

9h00 : Pierre Capy, Directeur de l’ED - Accueil des participants

Session 1

9h15 : Cécile Patissier - Molecular mechanisms and therapeutic approaches for sarcoglycanopathies

9h30 : Pierre Jacob - Découverte de nouvelles voies de signalisation du stress abiotique chez Arabidopsis thaliana

9h45 : Julie Bourseguin - FANCD2 fonctionne en aval du facteur de transcription MiTF pour maintenir la prolifération et la survie des cellules du mélanome

10h00 : Laras Pitayu - Etude neurophysiologique et comportementale du frelon asiatique Vespa velutina

10h15 : Quentin Khebizi - Anterior Chamber Associated Immune Deviation (ACAID): a new mechanism to inhibit specifically anti-transgene cellular immune responses in the context of systemic gene transfert?
The day of the doctoral school SDSV

Albert Jacquard
Science, ethics, society

Laurent Loison
Evolution of the gene definition

Nicole Le Douarin
Stem Cells

Jean-Michel Claverie
Giant viruses

Guillaume Lecointre
La Science et la République

Patrick Winckler
Tara Ocean
The day of the doctoral school SDSV

- In 2021, March 23, at Gif/Yvette – CNRS Campus or visio-conference
- Like a workshop – PhD Student in third year can present their works
- Special talk at the end of the Day:
  Prof. Ludovic ORLANDO, AMIS, Université Paul Sabatier, Toulouse
  « Traveling back in time: from ancient DNA molecules to genomes, individuals, populations and ecosystems »
**BioScience Insights**
- organized with representatives of the PhD Students and the association Your I2BC

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**BioScience Insights**
**Session 1**
A program open mainly for all PhD Students

**OUR AIMS**
An invited expert will give a talk about scientific insights of his field of research.
The next interesting part is to give PhD students the opportunity to have a scientific discussion with the expert.

**Edith Heard**
expert in the 3D organization of the Genome
Professor at Collège de France
Head of the Genetics and Developmental Biology Department of the Institut Curie
Future Director of EMBL CONCIL

29th Sep 2017
at 2 PM
Gif-Sur-Yvette

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**BioScience Insights**
**Session 2**
A program open mainly for all PhD Students

**OUR AIMS**
An invited expert will give a talk about scientific insights of his field of research.
The next interesting part is to give PhD students the opportunity to have a scientific discussion with the expert.

**David Bikard**
expert in CRISPR System
Team Leader at Pasteur Institute

25th of May 2018
at 2 PM
Gif-Sur-Yvette

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Day attendance counts as 5h of PhD training
- International Journal (rank A with peer review)

- Before to defend your PhD
  - If you have not yet published your results, you must request an exemption and argue why no results have been published and when you plan to publish them.
  - The exemption will only be accepted if a full draft is ready and submitted to a journal or at least deposited on a platform such as HAL, BioRxiv or others.

- PCI recommendations are accepted as regular paper

- No possibility for your supervisor to have a new student before the publication of your results.
Administrative process completely dematerialized BUT:

- **4 months before:**
  - discuss with your director concerning the jury composition: you must follow the rules which can be found on the ED website

- **6 months before:**
  - discuss with your director concerning the confidentiality of your thesis manuscript (tapuscript)

- **24-30 months before (just at the beginning of your thesis):**
  - discuss with your director concerning the possibility to obtain the European Doctorate Label
- Recognition of the European dimension of a doctorate

- The “European Doctorate”, or “Doctor Europaeus” is a label awarded by Université Paris-Saclay and applies to the national doctorate diploma, already internationally recognised under the European Undergraduate-Graduate-Post-Graduate framework, and which enables recognition of the European dimension of the PhD project.

- It is open to PhD students from European Community member countries, and extended to other states of the European Free Trade Association (Switzerland, Iceland, Norway, Lichtenstein).

- All European Community institutions authorised to deliver a doctorate can also deliver the “European Label” upon completion of the oral thesis presentation, subject to the following conditions:
- The doctorate must, in part, have been prepared during a research internship period of at least three months in another European country.

- Oral thesis presentation authorisation is granted on the basis of reports submitted by at least three professors comprising at least two from higher education institutions from two European countries other than the country in which the oral thesis presentation is to be held. The host laboratory representative cannot submit this report.

- At least one member of the jury should belong to a European higher education institution from a different country to that in which the oral thesis presentation is held.

- Part of the oral thesis presentation should be conducted in an official language of the European Community which is not the language of the country in which the presentation is held.
Wellcome to
The Doctoral School
« Structure et Dynamique
des Systèmes Vivants »
1. Who are we?
2. The Paris-Saclay Context
3. The SDSV Doctoral School
4. Questions / Answers