Ecole Doctorale « Structure et Dynamique des Systèmes Vivants - SDSV »

Doctoral School « Structure and Dynamics of Living Systems - SDLS »

February 15, 2023
1. Who are we?
2. The Paris-Saclay Context
3. The SDSV Doctoral School
4. Questions / Answers
Who are we?

The instigator behind our doctoral school

The World of transposable elements (selfish DNA)

Pierre CAPY
Who are we?

Florence GONNET
fgonnet@univ-evry.fr

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

\[
\begin{align*}
\text{C3b} & : 177 \text{ kDa} \\
\text{FH} & : 155 \text{ kDa}
\end{align*}
\]
Who are we?

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
- \textit{In vivo} imaging of brain responses to odorants
- Olfactory learning, memory and plasticity
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)
Who are we?

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?

Isabelle GUENAL
Isabelle.guenal@uvsq.fr

Cell stress and mitochondria

- Cell stress and tissue homeostasis
- Tumor suppressors and cell death
- Bcl-2 family proteins and apoptosis
- Mitochondrial quality control and stress
- Drosophila models of human pathologies
Who are we?

Bernard MIGNOTTE
bernard.mignotte@uvsq.fr

The World of mitochondria, cell death and senescence

- Mitochondrial biogenesis
- Structure and replication of mitochondrial nucleoids
- Tumor suppressors in apoptosis and senescence
- Mitochondria in cell death process
- Reactive oxygen species and cell death
Who are we?

Jean-Luc PERNODET
UPSaclay

Jean-Christophe SANDOZ
UPSaclay

Fabienne MALAGNAC

Isabelle GUENAL
UVSQ

Florence GONNET
UEVE

Bernard MIGNOTTE
Pr. émérite
The Paris-Saclay context

An extensive local network
The Paris-Saclay context
The Paris-Saclay context

**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
Paris-Saclay University in figures

First in continental Europe
(UK: Fourth: Cambridge, Seventh: Oxford)
An university open to the world

- **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 »)
International agreements signed by UPSaclay
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
EUGLOH offers you training opportunities and events on a variety of topics: seminars, workshops, training courses, meetings with industrials, mobility opportunities... Discover the five campuses of the alliance, meet with experts, develop cross-cutting skills and benefit from European diversity! **YOU must SUBSCRIBE to receive INFORMATIONS!**
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

- « Graduate » -

- GS1 - Teams/labs - Doctoral schools - Masters -

- GS2 - Teams/labs - Doctoral schools - Masters -

- GS3 - Teams/labs - Doctoral schools - Masters -

- GS17 - Teams/labs - Doctoral schools - Masters -

- « Undergraduate » -

- Double Licences UPSaclay -

- DUT - Licence pro - Licence -

- Universitary school of first cycle Paris-Saclay -

- « Graduate » -

- GS1 - Teams/labs - Doctoral schools - Masters -

- GS2 - Teams/labs - Doctoral schools - Masters -

- GS3 - Teams/labs - Doctoral schools - Masters -

- GS17 - Teams/labs - Doctoral schools - Masters -

- « Undergraduate » -

- Double Licences UPSaclay -

- DUT - Licence pro - Licence -

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

**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, médecine, 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 577** Agriculture, Alimentation, Biologie, Environnement (env. 230 doctorants)
- **ED 567** Sciences du végétal : du gène à l’écosystème (env. 100 doctorants)

**Master Biologie-Santé**
(env. 750 étudiants)

**Master Bioinformatique**
(env. 70 étudiants)

**Computer Science**

**Santé Médicaments**

- Sciences du médicament et des produits de santé (env. 400 étudiants)
- Chimie (env. 250 étudiants)

**BioSphERA**

- EUR SPS – GR (Saclay Plant Sciences)
- Nutrition et sciences des aliments (env. 120 étudiants)
- Biologie intégrative et physiologie (env. 50 étudiants)
- STAPS: activité physique adaptée et santé (env. 70 étudiants)
- Sport, Mouvement, Facteurs Humains
Life Sciences and Health: from understanding the fundamental mechanisms to applications in Biotechnology and Medicine
Structuration into Graduate programs

> 330 research teams
> 70 laboratories

Number of research groups per Graduate Program

6 Doctoral Schools, > 600 Students

**ED1 : Structure et dynamique des systèmes vivants**
**ED2 : Signalisation et réseaux intégratifs en biologie**

**ED3 : Cancérologie, Biologie, Médecine, Santé**
**ED4 : Innovation Thérapeutique : du Fondamental à l’Appliqué**

**ED5 : Agriculture, Alimentation, Biologie, Environnement, Santé**
**ED6 : Sciences du végétal: du gène à l’écosystème**
The doctoral school of the GS LSH

Now, relationships inside the GS LSH

Graduate School
Life Sciences and Health

ED 569 Innovation thérapeutique : ITFA
ED 568 Signalisation et réseaux intégratifs en biologie: BIOSIGN
ED 577 Structure et dynamique des système vivants SDSV
ED 582 Cancérologie, Biologie, médecine, santé, CANCEROLOGY
ED 567 Sciences du végétal : du gène à l’écosystème SdV
ED 581 Agriculture, Alimentation, Biologie, Environnement ABIES
The SDSV organisational chart

Management team

*Florence GONNET, Director
*Jean-Christophe SANDOZ, Vice-director,
*Bernard MIGNOTTE, Vice-director, transition with Isabelle GUENAL
*Jean-Luc PERNODET, Vice-director, transition with Fabienne MALAGNAC

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, overall administrative management and 6 PhD students (PSL)
- ???, 150 PhD students (referent Faculty of Sciences)
- Cansu GUL and/or Maeva VADO, 90 PhD students (referents UEVE, UVSQ, ENS-PS)

Web site - Communication

- Sandrine LE BIHAN
Who should you contact?

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

- Cansu GUL and/or Maeva VADO for all UEVE, UVSQ and ENS-Paris Saclay units, with IPS2 Lab., INRAE units except GABI Lab.
  
  **etudes-doctorales@univ-evry.fr**

- ?? for all the others UPSaclay units, including GABI Lab., without IPS2 Lab.
  
  **scolarite-doctorat.sciences@universite-paris-saclay.fr**

- Sandrine LE BIHAN for all the PSL units.
  
  **ed.sdsv@universite-paris-saclay.fr**

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

- Florence Gonnet for all UEVE units, ENS-Paris-Saclay units and IPS2 Lab.
- Bernard Mignotte, Isabelle Guénal, for all UVSQ units, including BREED and VIM units
- Jean-Luc Pernodet, Fabienne Malagnac, Jean-Christophe Sandoz, for UPSaclay and PSL units, and GABI Lab.
Scientific board: in reconstruction

Scientific direction and representatives of institutions

Representatives of Engineers, Technicians and Administrative staffs

Representatives of Research Units (inside Paris-Saclay)

Representatives of Research Units (outside Paris-Saclay)

Representative of Industry

Invited members for the entrance examination

Representatives of PhD Students (5 + 5 substitutes)
Representatives of PhD students

In 2023: Election of representatives of PhD students

- Electronic voting - using Balotilo
- Open on march-april, 2023
- Vote per site
  - UEVE (Evry)
  - UVSQ (Versailles St Quentin)
  - Paris-Saclay, ENS, PSL
- Application in march-april 2023

Do not hesitate to submit your application!
The SDSV Doctoral School

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)
The SDSV Doctoral School

Scientific units
- Universities and Research organisms:
  - UPSaclay (with ENS UPS), UVSQ, UEVE,
  - CNRS, INRAE, CEA, INSERM,
  - ENS Paris, Curie Institute, Pasteur Institute, Jacques Monod Institute, several hospitals...

Data of SDSV doctoral school
- 65 research units
- 513 supervisors and co-supervisors, whose 348 HDR
- Approximately 250 PhD students:
  - 60% of women, more than 10 nationalities
- 46 defenses in 2022
- 237 PhD students registered in 2022-2023
- BUT: 20 files to be processed
The SDSV WEB site

Registration on ADUM

http://www.adum.fr/

English version

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

The ADUM

LE RÉSEAU ADUM

Etablissement

université PARIS-SACLAY

ECOLES DOCTORALES

université PARIS-SACLAY

université PARIS-SACLAY

université PARIS-SACLAY

ÉCOLE DOCTORALE
Structure et dynamique des systèmes vivants (SDSV)
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.**

Ensure your browser must accept cookies.

**To access your personal account CLICK HERE.**

Ensure your browser must accept cookies.

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 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, login 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..

- 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 presidence**.

- The training courses taken must also be filed in ADUM with the appropriate certificate, number of hours and other things that we will see soon.

- **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 all UEVE units, ENS units (LBPA) and IPS2 Lab.
    - Bernard Mignotte, I. Guenal for all UVSQ, BREED and VIM
    - 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 MAXIMUM in June, but January is better
  - Third year: 6 months before the end of the experiments
  - Every year before the next registration (no derogation)
Follow-up during the thesis

- One meeting of the committee **each year**
- Planning of the experiments for the **coming year**

![Timeline Diagram]

- October: Committee 1
  - Within the first 6 months
  - If possible **before February**

- October: Committee 2
  - **Before January**

- October: Committee 3
  - At least 6 months before the end of the experiments
  - **Between October and December**

- End of the experiments
- Manuscript ready
- Article(s) submitted
- Defense

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*université PARIS-SACLAY*

ÉCOLE DOCTORALE
Structure et dynamique des systèmes vivants (SDSV)
Follow-up during the thesis

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 NOW of at least two members with one outside the university: one scientific expert of the domain with HDR, and one non expert of the scientific domain. The members are proposed by the PhD student in consultation with the thesis supervisor(s) and submitted to the Direction of the Doctoral School for approval.
Follow-up during the thesis

PhD Committee

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.
The progress of the thesis

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 and 25 points in terms of skill blocks**

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

- **You must maintain your file with up to date informations during 3-5 years after the defense**
Additional training

Référence: plan de formation doctorale, rédigé par Sylvie Pommier, Octobre 2022
Additional Training during the PhD

Goals:
- To encourage the development of doctoral students' skills
- To strengthen their scientific culture
- To promote their international profile (especially mastering the English language)
- To prepare their professional future (aimed both at the private and public sectors)

Credit points:
- **180 ECTS** overall: 155 ECTS for the doctoral work, 25 ECTS for additional training

Mandatory training in:
- Research ethics and integrity
- Open science
- Sustainable development

Necessary for defending the PhD
Skill blocks

Block 1: Design and development of a research and development approach

Block 2: Implementation of a research and development approach

Block 3: Transfer and valorization of the results of a research and development approach

Block 4: International science and technology watch

Block 5: Training and dissemination of scientific and technical culture

Block 6: Team supervision in a research and development context

Doctoral skills
French National directory of professional certifications (RNCP)

NEW: + personal qualities!
<table>
<thead>
<tr>
<th>Number</th>
<th>BLOCK</th>
<th>SKILLS</th>
</tr>
</thead>
</table>
| 1      | Design and development of a research and development, studies and prospective | Have both general and specific scientific expertise in a specific field of research and work  
Take stock of the state and limits of knowledge within a given sector of activity, at the local, national or international scales  
Identify and solve complex and new problems involving a plurality of fields, mobilizing the most advanced knowledge and know-how  
Identify the possibilities of conceptual breakthroughs and design axes of innovation for a professional sector  
Make innovative contributions in high-level exchanges, and in international contexts  
Constantly adapt to the needs of research and innovation within a professional sector |
| 2      | Implementation of a research and development, studies and prospective | Implement research methods and tools related to innovation  
Implement the principles, tools and procedures for evaluating the costs and financing of an innovation or R&D process  
Guarantee the validity of the work as well as its ethics and confidentiality by implementing the appropriate control systems  
Manage the time constraints of study, innovation or R&D activities  
Implement the factors of engagement, risk management and autonomy necessary for the finalization of an R&D project, studies and |
| 3      | Valuation and transfer of the results of an R&D, studies and prospective | Implement transfer issues for exploitation and promotion of results or products in economic or social sectors  
Respect the rules of intellectual or industrial property related to a sector  
Respect the principles of professional conduct and ethics in relation to the integrity of the work and the potential impacts  
Implement all the publication systems at the international level to promote new knowledge and knowledge  
Mobilize open data communication techniques to promote approaches and results |
| 4      | International scientific and technological watch | Acquire, synthesize and analyze cutting-edge scientific and technological data and information on an international scale  
Have an understanding, perspective and a critical eye on all the cutting-edge information available  
Going beyond the boundaries of available data and knowledge by crossing over with different fields of knowledge or other  
Develop international scientific and professional cooperation networks  
Have the curiosity, adaptability and openness necessary to train and maintain a high-level general culture |
| 5      | Training and dissemination of scientific and technical culture | Report and communicate in several languages scientific and technological work for different audiences or publications, both written and oral  
Teach and train diverse audiences in advanced concepts, tools and methods  
Adapt to a varied audience to communicate and promote avant-garde concepts and approaches |
| 6      | Supervision of teams dedicated to research and development, studies and | Lead and coordinate a team within the framework of complex or interdisciplinary tasks  
Identify missing skills within a team and participate in the recruitment or solicitation of service providers  
Build the necessary steps to stimulate the entrepreneurial spirit within a team  
Identify key resources for a team and prepare for changes in terms of training and personal development  
Evaluate the work of people and the team with respect to projects and objectives |
| 7      | Personal qualities ; Know-how ; Social abilities | Adaptation; Perseverance ; Resilience; Management of change and failure; Commitment  
Creativity, ability to imagine and formulate original ideas; Flexibility of mind and openness to novelty  
Knowledge and control of oneself and one's behavior = Ability to self-assess and question oneself; Knowledge of own limits; Dosage  
Rigor / flexibility  
Independence ; Autonomy; Initiative and decision-making  
Inter-relational skills = Sense of communication; Ability to listen and empathize, benevolence; Relationship to the other; Ability to work in a team and sense of collective responsibility. |
How to find the right course

- 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
  - Curie Orsay Courses, Statistics with R, Introduction to Biopython ...
  - Big Data training (M2 Gen2Ev)
  - Training in the field of imaging
  - Learn new techniques outside of your lab
  - ..........

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

- Congresses, workshops, ...

- Training to teach and teaching

- SPECIAL EVENTS OF SDSV
  - The annual meeting of the doctoral school (10h – 2 credit points)

Always ask for a certificate of attendance (needed for validation)
How to find the right course


In France, the PhD degree has plural objectives. In addition to the research training, the PhD also includes complementary work and course (some of them are compulsory). Those activities are thoughtful, planned and adaptable. They must contribute to the development of skills of future doctors, defined in the 22 February 2019 decree, which registered the PhD in the national directory of professional certification.

Objectives and expectations

PhD training plans

- Training plans for PhD students: Objectives, expectations and validation of complementary PhD training and activities. A guide to understand the principles common to all doctoral schools (translation in coming)

- Les plans de formation doctorale Objectifs, attendus et validation des formations et activités doctorales complémentaires. (pdf 558.29 KB)

Many online options: https://www.fun-mooc.fr/
### 13 different types of training

<table>
<thead>
<tr>
<th>Training type</th>
<th>Sub-type</th>
<th>Points</th>
<th>for validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Training in Paris-Saclay catalog</td>
<td></td>
<td>5 hours of training ↔ 1 credit point</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
<tr>
<td>2. Seminars, Congresses, Summer Schools</td>
<td></td>
<td>5 hours of seminar/congress ↔ 1 credit point</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
<tr>
<td>3. Involvement in student association</td>
<td></td>
<td>Depending on the personal time devoted, 1 to 3 credit points</td>
<td>certificate signed by president of association</td>
</tr>
<tr>
<td>4. Involvement in academic democracy</td>
<td></td>
<td>Depending on the personal time devoted, 1 to 3 credit points</td>
<td>certificate signed by president of council</td>
</tr>
<tr>
<td>5. Involvement in evaluation committees and juries</td>
<td></td>
<td>Depending on the personal time devoted, 1 to 3 credit points</td>
<td>certificate signed by president of committee</td>
</tr>
<tr>
<td>6. PhD student in charge of a teaching mission</td>
<td>Training to teach</td>
<td>as preparation for becoming a professional, up to 7 credit points</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
<tr>
<td></td>
<td>Lectures given</td>
<td>1 HETD ↔ 5 hours of personal work. Validated only if &gt; 10 HETD. Max 5 credit points</td>
<td>certificate signed by teaching supervisor (mentioning lecture hours)</td>
</tr>
<tr>
<td>7. Co-supervision of students or interns in the laboratory</td>
<td></td>
<td>Depending on supervision time, up to 3 credit points</td>
<td>certificate signed by Lab head or main organizer (mentioning time involvement)</td>
</tr>
</tbody>
</table>

[https://www.universite-paris-saclay.fr/sites/default/files/2022-10/plan_de_formation_doctorale.pdf](https://www.universite-paris-saclay.fr/sites/default/files/2022-10/plan_de_formation_doctorale.pdf)
## 13 different types of training

<table>
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<th>Points</th>
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</tr>
</thead>
<tbody>
<tr>
<td>8. Member of the organizing committee for a scientific event</td>
<td></td>
<td>Depending on the personal time devoted, 1 to 3 credit points</td>
<td>certificate signed by main event organizer (mentioning time involvement)</td>
</tr>
<tr>
<td>9. Participation in a mentoring program</td>
<td></td>
<td>Depending on the personal time devoted, up to 3 credit points</td>
<td>certificate signed by head of mentoring program (mentioning time involvement)</td>
</tr>
<tr>
<td>10. Scientific mediation</td>
<td>Training in scientific mediation</td>
<td>as preparation for becoming a professional, up to 7 credit points</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
<tr>
<td></td>
<td>Mediation done</td>
<td>max 20 days of mediation, up to 5 credit points</td>
<td>certificate signed by mediation head (mentioning days)</td>
</tr>
<tr>
<td>11. Expertise or valuation activities</td>
<td>Training on expertise/valuation</td>
<td>as preparation for becoming a professional, up to 7 credit points</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
<tr>
<td></td>
<td>Expertise/valuation done</td>
<td>max 20 days of expertise/valuation, up to 5 credit points</td>
<td>certificate signed by expertise/valuation head (mentioning days)</td>
</tr>
<tr>
<td>12. Other training activities from the catalog</td>
<td></td>
<td>5 hours of training ↔ 1 credit point</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
<tr>
<td>13. Training and activities outside of the catalog</td>
<td></td>
<td>5 hours of training ↔ 1 credit point</td>
<td>certificate of attendance (mentioning hours)</td>
</tr>
</tbody>
</table>
Validation of training points

For each training, you must on ADUM:

• **Upload the certificate**

• **Choose an objective from the list:**
  - useful for carrying out personal research work
  - research ethics and scientific integrity
  - useful for writing the thesis or for the written or oral presentation of research work
  - training in open science
  - reinforcing the scientific culture of doctoral students
  - training in sustainable and sustainable development
  - promoting international openness
  - preparation for professional development in both the public and private sectors

• **Choose a single sub-block of skills in a block, for each training**
Validation of training points

- Paris-Saclay courses are directly validated by course organizers.
- All other training actions need to be uploaded in ADUM and validated by the Doctoral school.

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

Do not forget to attach the attendance certificate indicating the number of hours.

**5 h <-> 1 credit point**

- **Libellé**: Intégrité scientifique dans les médiations de la recherche.
- **Catégorie**: Se former à l'éthique de la recherche et l'intégrité scientifique.
- **Organisateur et ville**: Université de Bordeaux.
- **Année Univ**: 2023 - 2024
- **Début**: 05/12/2022
- **Fin**: 09/02/2023
- **Heures**: 15
- **Crédits/Points**: 1

**Objectif**: former à l'éthique de la recherche et à l'intégrité scientifique.

**Actions concernant la formation**:
- Enregistrer modifications SANS valider la formation.
- Valider directement la formation.
- Supprimer avec email.
- Supprimer SANS envoyer de email.
- Email sans action.

**Contenu/Programme**:

- L'objectif de cette formation est de diffuser une culture de l'intégrité scientifique au sein des établissements. Plus qu'à transmettre des connaissances et des savoirs faire les plus avancés.

**Compétences RICP**:

- **Bloc 1**: Conception et élaboration d'une démarche de recherche et développement, d'études et prospective.
  - Disposer d'une expertise scientifique large et générale.
  - Faire le point sur l'état et les limites des savoirs au sein d'un secteur d'activité déterminé, aux échelles locale, nationale ou internationale.
  - Identifier et résoudre des problèmes complexes et nouveaux impliquant une pluralité de domaines, en mobilisant les connaissances et les savoir faire les plus avancés.
  - Identifier les possibilités de ruptures conceptuelles et concevoir des axes d'innovation pour un secteur professionnel.
  - Apporter des contributions novatrices dans le cadre d'échanges de haut niveau, et dans des contextes internationaux.
  - S'adapter en permanence aux nécessités de recherche et d'innovation au sein d'un secteur professionnel.

- **Bloc 2**: Mise en œuvre d'une démarche de recherche et développement, d'études et prospective.
- **Bloc 3**: Valorisation et transfert des résultats d'une démarche R&D, d'études et prospective.
- **Bloc 4**: Veille scientifique et technologique à l'échelle internationale
At least one paper in first author

- 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 (on the website of SDSV) and argue why no results have been published and when you plan to publish them.

- The exemption will only be accepted if a complete draft is ready and submitted to a journal.

- Publications deposited on a platform such as BioRxiv or PCI (peer community in) are accepted as regular paper

- No possibility for your supervisor to have a new student before the publication of your results.
PhD Defense in 3 years

Administrative process completely dematerialized BUT:

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

- 6 months before:
  - discuss with your director concerning the confidentiality of your thesis manuscript

- 24-30 months before (just at the beginning of your thesis):
  - discuss with your director concerning the possibility to obtain the European Doctorate Label
The European Doctoral 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 European Doctoral Label

- 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.
Welcome to The Doctoral School « Structure et Dynamique des Systèmes Vivants »