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# Training Plan 2025 Report

| <br><b>IRB Leida</b><br><small>Institut de Recerca Biomèdica</small> | Nombre del documento  | FP     | Código | Fecha  | Rev. | Página      |
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## 1. List of training activities 2025

\*1 Additional information about the training activities can be found in section 3. Activities: objectives, content, organizers, target audience, and location.


| Nº | Título   | Proveedor                      | Fecha inicio | Fecha finalización | Duración (h) | Idioma               | Plazas | Nº inscritos | Nº finalizados | Resultado encuesta |
|----|--|--------------------------------|--------------|--------------------|--------------|----------------------|--------|--------------|----------------|--------------------|
| 1  | <b>Occupational Prevention</b>                                   | Risk Quirón Prevención         | 01/01/2025   | 31/12/2025         | 2            | CAT/<br>CAST/<br>ENG | N/A    | N/A          | 54             | N/A                |
| 2  | <b>Biological risks in laboratories</b>                          | Public Health Agency of Canada | 01/01/2025   | 31/12/2025         | 6            | ENG                  | N/A    | N/A          | 24             | N/A                |
| 3  | <b>Laboratory Leadership for Group Leaders</b>                   | CRG y HFP consulting           | 20/01/2025   | 22/01/2025         | 24           | ENG                  | 4      | 4            | 4              | 5/5                |
| 4  | <b>How to design a research study? From idea to project</b>      | Universitat de Lleida          | 03/02/2025   | 13/02/2025         | 15           | CAT                  | 10     | 10           | 8              | 3,8/5              |
| 5  | <b>Introductory Catalan course (A1 level)</b>                    | Escola d'Idiomes de la UdL     | 24/03/2025   | 04/06/2025         | 35           | CAT                  | 15     | 6            | 5              | 3/5                |
| 6  | <b>Managing implicit bias in the workplace</b>                   | IRBLleida                      | 08/04/2025   | 08/04/2025         | 1,5          | CAT                  | 30     | 10           | 7              | N/A                |
| 7  | <b>Introduction to science communication</b>                     | IRBLleida                      | 25/04/2025   | 25/04/2025         | 3            | CAT                  | 30     | 35           | 22             | 4,5/5              |
| 8  | <b>Data Protection: Good practices in the healthcare setting</b> | Fundació TIC Salut i Social    | 29/04/2025   | 19/05/2025         | 5            | CAT                  | 5      | 5            | 2              | N/A                |
| 9  | <b>Data quality matters. Data Organization and cleaning</b>      | SCT Estadística IRBLleida      | 30/04/2025   | 11/06/2025         | 15           | CAT                  | 10     | 12           | 9              | 4,9/5              |

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|----|---|-----------------------------|--------------|--------------------|--------------|--------|--------|--------------|----------------|--------------------|
| 10 | <b>Boost your scientific conversations skills in advanced English</b> | Escola d'Idiomes de la UdL  | 13/05/2025   | 01/07/2025         | 30           | ENG    | 15     | 15           | 11             | 3,9/5              |
| 11 | <b>How to write a grant proposal for Horizon Europe</b>               | Zabala Innovation           | 27/05/2025   | 27/05/2025         | 2,5          | CAST   | 48     | 48           | 48             | N/A                |
| 12 | <b>Tenders and technical specifications</b>                           | Kalaman                     | 30/05/2025   | 26/06/2025         | 8            | CAST   | 20     | 20           | 20             | 3,4/5              |
| 13 | <b>Microsoft Excel - Data Management</b>                              | Núria Sans (HUAV)           | 02/06/2025   | 18/06/2025         | 20           | CAT    | 30     | 20           | 11             | 4,9/5              |
| 14 | <b>Initial training on the use of the Defibrillator and First Aid</b> | Oriol Yuguero (HUAV)        | 12/06/2025   | 17/06/2025         | 6            | CAT    | 12     | 16           | 16             | 5/5                |
| 15 | <b>Statistics for not statisticians</b>                               | Servei Estadística UdL      | 15/09/2025   | 19/09/2025         | 15           | ENG    | 13     | 13           | 9              | 4,8/5              |
| 16 | <b>Data Protection - Good practices in Research</b>                   | Fundació TIC Salut i Social | 16/09/2025   | 30/09/2025         | 5            | CAT    | 18     | 18           | 7              | 4/5                |
| 17 | <b>Impact Narratives</b>  | AQUAS                       | 22/09/2025   | 22/09/2025         | 3            | CAT    | 30     | 13           | 12             | 4/5                |
| 18 | <b>Data Protection - Good practices for administrative staff</b>      | Fundació TIC Salut i Social | 25/09/2025   | 09/10/2025         | 5            | CAT    | 13     | 13           | 8              | 4/5                |
| 19 | <b>AI applied to scientific communication</b>                         | Eduscopi                    | 01/10/2025   | 01/10/2025         | 3            | CAT    | 30     | 30           | 19             | 4,8/5              |
| 20 | <b>Review of regulations on experimental animals</b>                  | CREBA IRBLleida             | 02/10/2025   | 02/10/2025         | 3            | CAT    | 20     | 25           | 20             | 4,8/5              |

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| Nº | Título   | Proveedor                                      | Fecha inicio | Fecha finalización | Duración (h) | Idioma  | Plazas | Nº inscritos | Nº finalizados | Resultado encuesta |
|----|--|--|--------------|--------------------|--------------|---------|--------|--------------|----------------|--------------------|
| 21 | <b>Patient and Public Involvement activities in Health Sciences</b>                  | Sant Joan de Déu Fundació de Recerca           | 06/10/2025   | 07/10/2025         | 10           | CAT/ENG | 20     | 10           | 5              | 4,8/5              |
| 22 | <b>How to improve your scientific presentations in English</b>                       | Escola d'Idiomes de la UdL                     | 27/10/2025   | 26/11/2025         | 20           | ENG     | 15     | 6            | 5              | N/A                |
| 23 | <b>Introduction to flow cytometry and its applications</b>                           | SCT Microscopia i citometria IRBLleida         | 27/10/2025   | 27/10/2025         | 3            | ENG     | 25     | 24           | 18             | 4,8/5              |
| 24 | <b>Python para investigación biomédica</b>   | Servei Estadística UdL                         | 04/11/2025   | 06/11/2025         | 9            | ENG     | 15     | 11           | 11             | 4,4/5              |
| 25 | <b>Introduction to bioinformatics</b>  | Servei Estadística UdL                         | 17/11/2025   | 21/11/2025         | 15           | ENG     | 10     | 15           | 9              | 4,8/5              |
| 26 | <b>Innovation: Citizen science and co-creation</b>                                   | Unitat d'Innovació Oficina de Gestió IRBLleida | 20/11/2025   | 20/11/2025         | 3            | CAT     | 40     | 11           | 7              | 5/5                |
| 27 | <b>Publish without falling into the trap: decisions that make the difference</b>     | Biblioteca Ciències de la Salut UdL            | 21/11/2025   | 21/11/2025         | 1            | CAT     | 21     | 12           | 12             | 5/5                |
| 28 | <b>Probabilistic parrots: an intro to opportunities and perils of AI in research</b> | Servei Estadística UdL                         | 01/12/2025   | 05/12/2025         | 15           | ENG     | 13     | 10           | 5              | 5/5                |

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## 2. Summary of training activities 2025

| Number of courses Training Plan 2025 | Number of courses delivered 2025 | Total number of places offered | Total number of registrations | Number of participants who complete the courses |
|--------------------------------------|----------------------------------|--------------------------------|-------------------------------|---|
| 28                                   | 28                               | 512 (100%)                     | 350 (68%)                     | 230 (45%)                                       |


Although the number of courses in the training plan and the number of courses delivered coincide, not all the courses offered in the training plan have been delivered, and courses that were not initially planned have been offered. On the other hand, there are training activities, detailed in section 4 of activities, that have not been taken into account in this section: the External Seminars, the Friday Seminars, and the CREBA training.

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### 3. Activities

#### External Seminars

- **General objectives:** to update multidisciplinary knowledge in research tasks by inviting relevant researchers from different research areas.
- **Methodology:** seminar-format session with a presentation by the invited speaker of approximately 30 minutes, followed by a Q&A session.
- **Organized by:** IRBLleida.
- **Coordinator:** Anabel Sorolla.
- **Target audience:** research staff.
- **Location:** in person (room 0.22, Teaching Unit of the Faculty of Medicine of the University of Lleida).
- **Schedule:** Wednesdays, from 11:30 to 12:00 (there are variations depending on the speaker's availability).
- **Places:** open capacity.
- **Accreditation:** no.

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| No. | Date       | Speaker                  | Title   |
|-----|------------|--------------------------|---|
| 1   | 9/2/2025   | Sílvia Vidal             | Exploring hidden biomarkers: A trip through the cytometry of biological liquids   |
| 2   | 5/3/2025   | Beatriz López            | Artificial Intelligence applied to Medicine and Health. A journey through applications beyond GPT models  |
| 3   | 10/4/2025  | Andrea Romero            | Non-clinical plans in biological medicines. Regulatory affairs  |
| 4   | 19/5/2025  | Mariana Gómez Schiavon   | Understanding feedback control in biological systems  |
| 5   | 2/7/2025   | Manuel Mendoza           | Acetylation-driven RNA dynamics: Insights from yeast and stem cells   |
| 6   | 2/7/2025   | Eduardo Gomez-Banuelos   | Autoantibodies in systemic lupus erythematosus: novel targets and insights into their origin  |
| 7   | 20/10/2025 | David Soto del Cerro     | EAR-20 as a novel NMDAR positive allosteric modulator   |
| 8   | 21/10/2025 | Antonio Martinez-Ruiz    | From one cation to another: mitochondrial Na <sup>+</sup> /Ca <sup>2+</sup> /Li <sup>+</sup> in the response to hypoxia and in ferroptosis in ischemic stroke |
| 9   | 19/11/2025 | Eva Estébanez-Perpiñá    | Nuclear receptor multimerization is key for their function and (patho)-physiological actions  |
| 10  | 19/11/2025 | Miguel Ángel Molina Vila | From Pleural Fluid to Personalized Treatment  |
| 11  | 4/12/2025  | Francesca Matteini       | Deciphering hematopoietic stem cells aging to develop novel rejuvenation strategies   |

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## Friday Seminars

- **Dates:** from January to December.
- **General objectives:** the objective of this activity is both training and informative. Training, because it ensures that research staff in training, at the end of their doctoral thesis period, have the ability to structure a scientific talk. Informative, because it allows interaction among IRBLleida groups and serves as a platform to update their latest scientific advances.
- **Methodology:** seminar in English lasting 15–20 minutes, plus 10 minutes of discussion. The course has been designed to encourage the participation of research staff in training as well as senior research staff to present the latest developments in research.
- **Organized by:** IRBLleida.
- **Coordinator:** Fabien Delaspre.
- **Target audience:** research staff.
- **Location:** in person (room 0.22, Teaching Unit of the Faculty of Medicine of the University of Lleida, or the auditorium of the Arnau de Vilanova University Hospital of Lleida).
- **Schedule:** 15:30, Fridays.
- **Places:** the auditorium has a capacity of more than 100 people.
- **Accreditation:** yes.
- **Number of seminars:** 13 (4 women and 9 men).


| No. | Date      | Speaker              | Research group                                 |
|-----|-----------|----------------------|--|
| 1   | 21/2/2025 | Julia Lisa Molina    | +PecProteomics                                 |
| 2   | 7/3/2025  | José Antonio Sánchez | +PecProteomics                                 |
| 3   | 11/4/2025 | Mario Henríquez      | TRRM   |
| 4   | 9/5/2025  | Marta Molinero       | Translational Research in Respiratory Medicine |

| No. | Date       | Speaker               | Research group                       |
|-----|------------|-----------------------|--------------------------------------|
| 5   | 16/5/2025  | Ivan Hidalgo          | Grebic                               |
| 6   | 30/5/2025  | Laura Martínez España | Neuronal Signaling Unit              |
| 7   | 6/6/2025   | Eric Hereu Herrera    | Molecular Oncology                   |
| 8   | 13/6/2025  | MANEL ALBERTÍ VALLS   | Pat onc                              |
| 9   | 20/6/2025  | maria mulet           | +PecProteomics                       |
| 10  | 10/10/2025 | Joan Valls            | GRECS                                |
| 11  | 24/10/2025 | Bruno Brotons         | Molecular Oncology                   |
| 12  | 14/11/2025 | Julio Idrovo          | Molecular Oncology                   |
| 13  | 21/11/2025 | Josep Esquerda        | Experimental Neuromuscular Pathology |

## Details of the activities described in section 2

### 3.1. Occupational Risk Prevention

- **General objectives:**
  - Promote occupational safety and health.
  - Extend training in occupational safety and health across all sectors of activity and for all groups of workers.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** online.

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### 3.2. Biological risks in laboratories


- **General objectives:** to review legislation and biological risks in the use of human samples for research and diagnosis. Syllabus: General microbiology, Pathogen risk assessment, General safety for containment laboratories, Personal protective equipment, Laboratory decontamination, and Biomedical waste.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** online.

### 3.3. Laboratory Leadership for Group Leaders

- **General objectives:** This course promotes the creation of a peer support network for the continuous development of leadership and enhances key aspects such as:
  - Improvement of communication and collaboration skills.
  - Ability to empower others for scientific excellence.
  - Improvement of self-organization and leadership practices.
  - Exchange of valuable experiences with peers.
  - Leadership in individual and group dynamics.
- **Organized by:** IRBLleida.
- **Target audience:** Tenure track staff.
- **Location:** Centre for Genomic Regulation (CRG).

### 3.4. How to design a research study? From idea to project

- **General objectives:** to reflect on how a research project is conceived in Fundraising, focusing on aspects related to design, project preparation, applicable regulations, execution, and evaluation.
- **Organized by:** IRBLleida.
- **Lecturer:** Xavier Gómez.
- **Target audience:** research staff affiliated with IRBLleida.
- **Location:** in person at IRBLleida.

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### 3.5. Introductory Catalan course (A1 level)

- **General objectives:** to develop skills in speaking Catalan.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.6. Managing implicit bias in the workplace


- **Objectives:** implicit bias is the involuntary attribution of positive or negative traits to people, places, or cultures. This training addressed three aspects: how implicit bias can influence decision-making and relationships in research centres; techniques to reduce personal implicit bias, as well as implicit bias manifested in teams and across the workplace; practical measures at both individual and team levels.
- **Organized by:** IRBLleida (Equality Committee).
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.7. Introduction to science communication

- **Objectives:** with the aim of addressing the idea that “research is not complete until it is communicated”, a short course on communication and outreach to society is proposed. It serves as an introduction to how to publish on social media, available tools, and other strategies.
- **Organized by:** IRBLleida.
- **Target audience:** research and technical staff.
- **Location:** in person at IRBLleida.

### 3.8. Data Protection: Good practices in the healthcare setting

- **Content:** aimed at healthcare professionals performing care-related tasks who wish to acquire practical knowledge on how data protection regulations affect

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their daily work.

- **Organized by:** IRB Lleida.
- **Target audience:** all IRB Lleida staff.
- **Location:** online.

### 3.9. Data quality matters. Data Organization and cleaning


- **General objectives:** to understand and clean a reliable database. The course addresses the importance of having a reliable database and the impact of missing values depending on their different types with respect to assessing the external validity of our data. The course has a very practical focus and is structured in a first part on the design and creation of a good database, whether in Excel, Jamovi or REDCap (the most recommended and accessible for IRB Lleida researchers), and a second part on initial cleaning and validation, and cleaning or correction if necessary, which must always be carried out as a prior step to any statistical analysis.
- **Organized by:** IRB Lleida.
- **Target audience:** all IRB Lleida staff.
- **Location:** in person at IRB Lleida.

### 3.10. Boost your scientific conversations skills in (advanced) English

- **General objectives:** to develop skills to improve presentations and oral communication in English.
- **Organized by:** IRB Lleida.
- **Target audience:** all IRB Lleida staff.
- **Location:** in person at IRB Lleida.

### 3.11. How to write a grant proposal for Horizon Europe

- **Content:** Introduction to Horizon Europe [Context and objectives of the programme (2021–2027), Differences compared to Horizon 2020, General structure (Pillar I, II, III)]; Funding opportunities [Explanation of the most relevant types of calls for researchers: Pillar I ■European Research Council (ERC), ■Marie Skłodowska-Curie Actions (MSCA); Pillar II ■Innovative Health Initiative (IHI); Pillar III ■European Innovation Council (EIC); Other programmes of interest (ERA

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PerMed and EU4Health); How to find calls and partners; Proposal preparation process: Typical proposal structure (Excellence, Impact, Implementation); Evaluation criteria and how to address them; Importance of cross-cutting aspects (Open Science, Gender, etc.); Budget and eligibility; Practical advice on proposal preparation, success stories and common mistakes to avoid.


- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida and online.

### 3.12. Tenders and technical specifications

- **Content:** Training of technical staff to prepare documentation of needs with a foundation in public procurement and to improve the efficiency of the processing by reducing the time spent on review.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** online.

### 3.13. Microsoft Excel – Data Management

- **Objectives/content:** the aim of the course is to teach participants the capabilities of the Microsoft Excel application regarding data analysis and processing and the use of functions as support for problem solving. The course has a purely practical nature. A series of problems are presented and the most appropriate tools and strategies for their resolution are identified. The course content focused on five topics: 1. Quick review of basic knowledge; 2. Simple and composite functions: mathematical, statistical, lookup...; 3. Tools for data processing: sorting, filtering; 4. Pivot tables; 5. Introduction to macros.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

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### 3.14. Initial training for the use of the Defibrillator and First Aid

- **General objectives:** to learn how to use the defibrillator and acquire basic first aid knowledge through a theoretical-practical class. Cardiorespiratory arrest (CRA) is one of the main life-threatening emergencies, with a high incidence and impact on mortality and disability. Scientific evidence shows that early initiation of basic cardiopulmonary resuscitation (CPR) and the immediate use of an automated external defibrillator (AED) double or triple the chances of survival with a good neurological outcome.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.15. Statistics for not statisticians


- **General objectives:** updating statistical knowledge for people who are not experts in the field.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.16. Data Protection: Good practices in research

- **Content:** aimed at professionals who conduct research or support the management of research projects and who process personal data in the course of this activity.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** online.

### 3.17. Impact Narratives

- **Content:** the training included a motivational talk on a healthy impact culture and international evaluation standards, followed by a review of initiatives in Catalonia and Spain. Subsequently, group work and final reflections were carried out.

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- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.18. Data Protection: Good practices for administrative staff


- **Content:** aimed at professionals who carry out administrative tasks, whether dealing with the public or internally, and who, within the scope of their duties, process personal data and/or interact with citizens.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** online.

### 3.19. AI applied to scientific communication

- **Content:** training on the use of artificial intelligence in scientific communication. As always, scientific communication is understood not only as “outreach” but also as communication among peers (posters, conferences), transfer to companies, education, etc. The training covered different aspects: •What for? Research, education, communication, journalism; •Interacting with AI; •Comparison of different tools; •Reliability; •Transparency or challenges; •Regulation: laws and licenses; •Ethics; •Biases; •Managing complexity; •AI and audiovisuals; •Creativity; •AI for change: inclusivity, anticipating change.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.20. Review of regulations on experimental animals

- **Content:** continuous training in the field of animal experimentation ensures the protection of animals used for scientific or teaching purposes and allows research staff holding accreditation for the use of experimental animals in their research to maintain it in accordance with the provisions of Ministerial Order ECC/566/2015. Topics: •Learning new techniques, methods, or regulations applicable to animal experimentation; •Reduction of errors and occupational accidents; •Increasing

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the validity and reproducibility of experimental data; •Greater knowledge of the 3 Rs: Reduction, Refinement, and Replacement.

- **Organized by:** IRBLeida.
- **Target audience:** all IRBLeida staff.
- **Location:** in person at IRBLeida.

### 3.21. Patient and Public Involvement activities in Health Sciences


- **General objectives:**
  - Introduce clinical experts to the field of Patient and Public Involvement (PPI).
  - Explain the role that patients, caregivers, and the public can have as advisors in the health research process.
  - Describe the process for designing and implementing a PPI activity.
  - Introduce the skills required to act as a facilitator of a PPI activity.
  - Inform about and assess the impact of a PPI activity.
- **Organized by:** IRBLeida.
- **Target audience:** all IRBLeida staff.
- **Location:** in person at IRBLeida.

### 3.22. How to improve your scientific presentations in English

- **General objectives:** to develop skills to improve presentations and oral communication in English.
- **Organized by:** IRBLeida.
- **Target audience:** all IRBLeida staff.
- **Location:** in person at IRBLeida.

### 3.23. Introduction to flow cytometry and its applications

- **General objectives:** to provide the basic fundamentals of flow cytometry to enable a good understanding of this technique; to present current techniques and applications (immunophenotyping, apoptosis, cell cycle, cell viability, functional analysis, applications in clinical diagnosis, etc.) and more recent ones so that researchers can learn about them and apply them in their field of research; and to

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present the Scientific-Technical Service of Flow Cytometry at IRBLLEIDA, as well as the services it offers.


- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.24. Python para investigación biomédica

- **General objectives:** to acquire the basic knowledge of this programming language: loading sequence data, setting up a database using the Pandas library, and using Python to process text files in different formats.
  - Session 1: Basic concepts. Installation of Anaconda and cloud-based work with Google Colab. Jupyter notebooks. Basic Python syntax. Package installation. Writing simple programs: handling DNA sequences.
  - Session 2: Basic data analysis with Colab. Data organization in a DataFrame. Exploratory data analysis. Basic statistics and plotting.
  - Session 3: Biopython. Working with common formats. Genomes and annotations.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

### 3.25. Introduction to bioinformatics

- **Content:**
  - Session 1: From genomes to systems biology, dynamic behaviour and adaptation of organisms: DNA bioinformatics; RNA bioinformatics; protein bioinformatics; network bioinformatics; systems biology.
  - Session 2: Command lines and non-graphical interfaces.
  - Session 3 and 4: Beyond bioinformatics: Python & R; Notebooks; Anaconda & Jupyter; Google Colab.
  - Session 5: Pending topics or questions.
- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

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### 3.26. Innovation: Citizen science and co-creation


- **Content:** -Context and benefits of citizen participation in science - ISCIII, Horizon EU, CERCA; -Initiatives promoted by the IRBLeida management office; - Initiatives promoted by IRBLeida research staff.
- **Organized by:** IRBLeida – Innovation Department.
- **Target audience:** all IRBLeida staff.
- **Location:** in person at IRBLeida and online.

### 3.27. Publish without falling into the trap: decisions that make the difference

- **Content:** In a context where the pressure to publish is constant, it is essential to know how to distinguish between reliable and misleading options. Making informed decisions can be key. The publication of research outputs is a very important step for researchers to obtain maximum recognition. The objectives of this workshop are: to be able to identify different types of journals of doubtful quality and to know the tools to assess the quality of appropriate journals in which to publish, as well as to be aware of alternatives to traditional publishing.
- **Organized by:** IRBLeida.
- **Target audience:** all IRBLeida staff.
- **Location:** in person at IRBLeida.

### 3.28. Probabilistic parrots: an intro to opportunities and perils of AI in research

- **Contenido:**
  - Sesión 1: Learning the lingo
    - Types of AI tools
    - How do they work?
    - Where can I get them and how to use them?
  - Sesión 2: Probabilistic parrots
    - Opportunities
    - Perils
    - Are we that different? (Bayesian and deep neural nets)
  - Sesión 3: Creating and training AIs
    - The newborn AI
    - Raising the newborn AI: Training and validation
    - Adopting an AI: What is out there and how to get it.

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- Sesión 4: Running with wolves and dancing alone
  - Large language models

- **Organized by:** IRBLleida.
- **Target audience:** all IRBLleida staff.
- **Location:** in person at IRBLleida.

#### 4. CREBA Training

The support provided by CREBA for the implementation of training activities is comprehensive, covering the following tasks:

- Preparation of documents, procedures, and administrative processes to comply with animal protection regulations, and for accreditation as a continuing training activity.
- Preparation of budgets.
- Collaboration and advice for organizers in course design.
- Procurement and management of all general materials used in the course.
- Management of services (catering, transport, accommodation, etc.).
- Preparation of documents and reports at the request of lecturers and sponsors.
- During the course, coordination of participants and lecturers.

During 2025, CREBA hosted 16 specialized and/or continuing healthcare training courses:

| Month    | Course title  | Language | No. of attendees* |
|----------|---|----------|-------------------|
| January  | Thoracic procedures in animal models for emergency physicians. Pleural drainage and central venous access | CAT      | 23                |
| February | Introduction to laparoscopic surgery for R1 residents   | CAT      | 7                 |
| March    | Spine instrumentation and approaches - 9th edition  | ESP      | 22                |
|          | <i>Creo Medical Speedboat Clinical Training</i>   | ENG      | 14                |
|          | Tunneled catheter workshop for hemodialysis   | CAT      | 7                 |
|          | Advanced laparoscopic surgery course in Gynecology - 8th edition  | CAT      | 18                |
| May      | Update course in medical-surgical endoscopy: Colorectal pathology experimental workshop                   | CAT      | 27                |
| June     | Update course in medical-surgical endoscopy: Colorectal pathology experimental workshop                   | CAT      | 15                |

| Month   | Course title   | Language | No. of attendees* |
|---|--|----------|-------------------|
|   | Interventional nephrology V edition  | ESP      | 16                |
|   | <i>Creo Medical Speedboat Clinical Training</i>  | ENG      | 17                |
| September   | Module VI of the Ifevet postgraduate program in minimally invasive veterinary surgery  | ESP      | 15                |
| October   | Introduction to tubular exoscopic lumbar microsurgery  | ENG      | 10                |
|   | Advanced therapeutic endoscopy: submucosal dissection and third-space endoscopy – 7th ed.  | ENG      | 19                |
|   | Thoracic procedures in animal models for emergency physicians  | CAT      | 22                |
| November  | Management of complications in anterior thoracic and abdominal spine approaches. In vivo workshop in a porcine model – 8th edition | ENG      | 22                |
|   | <i>Piglab hernia: Lap wall diver</i>   | ESP      | 18                |
| <b>Total courses: 16 (5 ENG, 4 ESP, 7 CAT) Total attendees:</b> |  |          | <b>272</b>        |