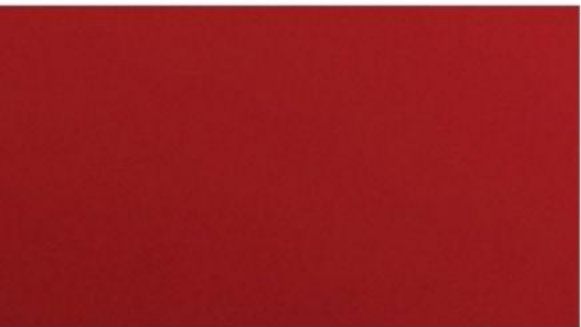


Pla de formació

2026

IRTA ^R

Institut
de Recerca i Tecnologia
Agroalimentàries



Training applied to research



Personal
Development
and Soft Skills

Technical Skills



[Acces the training criteria](#)



Personal Development and Soft Skills

1. [Career Development for PhD candidates](#)
2. [Thesis Defense Preparation: Strategies for Success](#)
3. [Levelling up your Research Writing](#)

One edition has been planned for each training action. Based on the demand, and the training budget, it may be extended to new editions



Career Development for PhD candidates

Description

This workshop aims to provide assessment to the last year PhD candidates when looking for the next career step. Practical exercises and case studies will be proposed to help identify skills and value them.

Content

The workshop is very interactive and based in practical cases where attendants can put in practice the new concepts and work on their CV and their network so to move on the professional goals. Outline:

1. What can I do after my PhD?
2. CV conditioning
3. Networking skills
4. Social networks
5. Types of interviews
6. Plan ahead

Objectives

This workshop aims to provide assessment to the last year PhD candidates when looking for the next career step.

Modality: On-site (Torre Marimón) and On-line

Schedule: 9h split in 3 sessions

Editions: 1

Target: Last year PhD candidates

Lecturer: Scientific Direction IRTA - Anna Casadellà

Participants: 12



Thesis Defense Preparation: Strategies for Success

Modality: To be determined
Schedule: 6h split in 3 sessions

Dates: May 4, 6 and 8

Editions: 1

Target: PhD Candidates

Lecturer: B2B Translation – Lisa Mann

Participants: 10

Description

Research suggests that doctoral candidates that take defense preparation courses are more confident and achieve better results than those that prepare on their own (e.g., Lantsoght, 2022). This course is designed for doctoral candidates who are nearing the completion of their thesis and want to practice and build confidence before defending it. Participants will receive guidance on structure and delivery and will take part in a mock question phase

Content

Day 1: 2 hours

- Analyse examples of effective defence presentations to identify key structural elements and strategies.
- Draft or refine the outline of participants' own defence presentations with instructor feedback.

Day 2: 2 hours

- Brainstorm and categorise potential questions (methodology, contribution, limitations, future research).
- Practice concise, confident responses through paired or small group mock questioning.
- Receive targeted feedback from peers and instructor.

Day 3: 2 hours

- Deliver a 10–15-minute mock defence presentation followed by a Q&A simulation.
- Reflect on performance using a structured peer-review form.
- Develop a personalised action plan to strengthen delivery before the actual defence.

Objectives

By the end of the workshop, participants will have:

- Gained an understanding of the structure of a defense presentation.
- Anticipated questions and prepare confident, clear responses.
- Practiced answering a series of direct questions about their work.
- Received feedback from peers and the instructor.



Levelling up your Research Writing

Modality: On-line

Schedule: 6h split in 3 sessions

Dates: April 13, 15 and 17

Editions: 1

Target: PhD Candidates

Lecturer: B2B Translation – Lisa Mann

Participants: 25

Description

This research writing workshop is intended for novice researchers who want to improve their scientific writing in English. It covers everything from the organizational structure of typical scientific papers to English-specific style and readability issues.

Content

Day 1: 2 hours

- Introduction to course and one another
- The organizational structure of research papers
- Understanding the introduction section (content and grammar)
- (Home Task) Complete methods and results sections (content and grammar)

Day 2: 2 hours

- Understanding the discussion section (content and grammar)
- Recognizing and rectifying common issues with readability and style
- (Home Task) Apply content to an existing piece of writing or write a part of an introduction

Day 3: 2 hours

- The role of the passive and active voice in research writing
- Peer review

Objectives

By the end of the workshop, participants will:

- Have gained a solid understanding of the structure and content of research papers in English.
- Have explored reader expectations through the lens of readability and language.
- Be able to identify and rectify problems related to style and readability in research writing.





Technical Skills

1. [Leveraging Emerging Technologies in the Academic Writing Process](#)
2. [Visual Communication in Science](#)
3. [Creating an effective graphical abstract](#)
4. [Competitive Funding: Tools, Perspectives and Processes.](#)
5. [Workshop on iMarina](#)
6. [Workshop on EndNote](#)
7. [Patent Search @](#)
8. [Introduction to R Programming](#)
9. [Statistical Concepts for Data Analysis](#)
10. [Elevate your Python Skills in Life Sciences](#)
11. [Open Science for Beginners @](#)
12. [Understanding the Open Access environment](#)
13. [FAIR Data & Open Data: the management of digital data in research projects](#)
14. [Data Management Plan – Creation and evaluation of individual data management plans](#)
15. [Data Management Plan – Creation and evaluation of data management plans in consortia \(Data Management Plans researchers\)](#)
16. [Data curation for Open Data publication](#)
17. [Animal organoids as experimental models](#)

One edition has been planned for each training action. Based on the demand, and the training budget, it may be extended to new editions



Leveraging Emerging Technologies in the Academic Writing Process

Modality: On-line

Schedule: 6h split in 3 sessions

Dates: October 19, 21 and 23

Editions: 1

Target: PhD candidates and
Researchers.

Lecturer: Lisa Mann – B2B translation

Participants: 25

Description

In this short workshop, participants will explore a selection of online tools that can aid them in the writing process. Whether developing a doctoral thesis, a research article, a conference abstract or any other type of academic communication, these tools will help streamline the writing process and improve overall efficiency.

Content

Day 1: 2 hours

- Introduction to course and one another
- Introduction to generative AI
- The research writing process and using technological resources responsibly
- (Home Task) Tool exploration

Day 2: 2 hours

- Tool exploration results
- Writing an introduction with high-tech help

Day 3: 2 hours

- Revising with technology
- Recognizing shortcomings in technology use
- Developing an AI statement

Objectives

By the end of the workshop, participants will have:

- Explored a series of emerging technologies that can be used in the academic writing process.
- Gained an understanding of where in the research writing process these tools can be responsibly used and how to use them ethically.
- Applied these tools in the development of a short piece of writing.



Visual communication in Science

Modality: On-line

Schedule: October 8 (2h)

Editions: 1

Target: PhD Candidates and Researchers

Lecturer: Eduscopi

Participants: 20

Description:

This training on Visual Communication in Science will cover graphical abstracts, posters, slides, and other visual formats for effective scientific communication. The content will be adapted to the IRTA's style guidelines.

Content

1. Introduction to scientific visual communication
 - Why do we visualize?
 - Advantages over text: faster processing and better retention.
2. Strategy before designing:
 - As always: Message, audience, objectives
 - From graphic to storytelling.
3. The right graphic
 - Selection guide
 - Ranking of visual elements
 - Critique of common formats
4. Fundamental principles of design
 - Structure and hierarchy
 - Color as a communication tool
 - Typography
5. Analysis of real case studies.

Objectives

- Understand the advantages of visual communication to improve comprehension and retention of scientific information.
- Select the most appropriate type of graphic and visual narrative based on the audience and the message to be communicated.
- Apply basic principles of design, color, and typography to optimize the clarity and impact of graphics, infographics, and posters.



Creating an effective graphical abstract

Modality: On-line

Schedule: June 8 (3h)

Editions: 1

Target: PhD Candidates and Researchers

Lecturer: Catalyzing Science

Participants: 20

Description:

A graphical designer will provide attendees with basic tools, resources and tips on how to create the best graphical abstract for scientific publications.

Content

1. What is a graphical abstract and what formats can it have
2. Why it is a useful tool in scientific communication
3. In which contexts it can be used
4. Key recommendations for creating a good graphical abstract.
5. Useful tools and resources for creating graphical abstracts

Objectives

- Understand the role of graphical abstracts and illustrations in scientific communication
- Learn basic visual criteria to design clear and effective graphical abstracts
- Develop a critical eye to analyze and improve graphical abstracts
- Provide participants with resources and tools



Competitive Funding: Tools, Perspectives and Processes

Description

This workshop equips participants with practical tools and strategies to develop, plan, and structure competitive grant proposals. It emphasizes grant preparation as both a project management and communication process, enhancing participants' chances of success

Content

1. Developing your scientific idea
2. Charting the grant landscape
3. Analysing the call
4. Organising and connecting your ideas
5. Dealing with key sections for success
6. Reverse planning for preparing and submitting

Objectives

The goal of this workshop is to boost participants' chances of obtaining competitive funding by providing training that is immediately applicable in their working environment.

One of the key messages is to understand grant preparation, not just as a writing task, but as a Project Management and Communication task.

At the end of the workshop, participants will have acquired a set of practical tools and concepts to facilitate the grant writing process, giving them a competitive advantage.

Modality: to be determined

Schedule: To be determined
(2-day workshop)

Editions: 1

Target: Postdoctoral Researchers

Lecturer: TPM Science

Participants: 16



Workshop on iMarina

Description

This course provides insight and tools on how to use the iMarina platform to enhance CV registration and track of achievements.

Content

1. Basic aspects of your CV: personal data, summary, bibliometric indicators, adscriptions
2. Updating and curation of data
3. Creating a CVN and CVA FECYT, CVA Word-Reports

Objectives

Learn how to use the iMarina tool highlighting the more important aspects of the platform.

Modality: On-line

Schedule: April 22, June 3, September 9 and
October 14

Editions: 4

Target: Researchers

Lecturer: Scientific Documentation IRTA -
Xantal Romaguera

Participants: 20



Workshop on EndNote

Description

The course will provide basic knowledge on how to manage citations and libraries for scientific publications with EndNote.

Content

1. How to obtain citations
2. How to create a private and shared library
3. How to include citations in a document
4. How to modify the citations style according to the journal

Objectives

To provide participants with the essential skills to manage references and bibliographic libraries using EndNote.

Modality: On-line

Schedule: to be determined

Editions: 2

Target: Researchers

Lecturer: Scientific Documentation IRTA -
Xantal Romaguera

Participants: 20



Patent Search

Modality: E-learning

Duration: 1.5h

AulaIRTA: Valorization Office

Target: Open to all

Description

Training in patent searching is essential for those who want to have a basic understanding of patents and want to learn how to find relevant information contained in these databases to use it in their research projects, either to better guide the project or to determine whether they will be able to protect their results.

Content

1. Basic concepts of Industrial Property that every IRTA researcher should know
2. Why is the information contained in patents important for my research?
3. Patent databases: what they are and how to search for the information you need.
4. Practical cases: searches in the Espacenet database.

Objectives

- To provide IRTA research staff with basic knowledge on industrial property and protection of research results.
- To provide IRTA research staff with a tool to improve the orientation of their projects and the prospects of bringing the results of their work to market.
- To acquire the practical skills necessary to independently reproduce everything that will be learned during the course.



Introduction to R Programming

Description

Learn the R programming environment, how to import and export data, how to work with loaded data, obtain general statistics, do the most common statistical analyses and basic graphs.

Content

1. Introduction to basic concepts to R Programming
2. Getting started with R and RStudio
3. First Steps in R Programming
4. I/O Reading and writing data
5. Data management
6. Plotting data
7. Hypothesis testing in R
8. Linear regression models
9. Mixed lineal regression models

Objectives

To acquire basic knowledge in R Programming to perform statistical analysis with research data.

Modality: On-site (Torre Marimon)

Schedule: To be determined

Editions: 1

Target: PhD candidates and Researchers

Lecturer: IRTA Researcher - Miriam Piles

Participants: To be determined



Statistical Concepts for Data Analysis

Modality: On-line

Schedule: To be determined

Editions: 1

Target: PhD candidates

Lecturer: IRTA Researcher - Carles Alcaraz

Participants: To be determined

Description

This course will provide basic statistics knowledge. The meaning of standard distribution, mean, standard error etc. The basics of the definition of experimental design and the analysis methods of more common data. The main objective of the course is to create an environment where people lose their fear of statistics and can start working with their data. Although theoretical examples will be worked on, it is recommended that people bring their data so that they can work on real examples.

Content

1. Basics of statistics
2. Descriptors
3. Types of variables
4. Distributions
5. Data transformation
6. Sample design
7. Contingency tables
8. Multivariate Analysis (PCA)
9. Statistical assumptions,
10. Correlation vs Regression
11. ANOVA/ANCOVA
12. MANOVA/MANCOVA

Objectives

To acquire statistical knowledge that allow participants to get the most out of their own data



Elevate your Python Skills in Life Sciences

Modality: On-line

Schedule: 14, 16 and 21 september

Editions: 1

Target: PhD Candidates and Researchers

Lecturer: Transmitting Science

Participants: 16

Description:

This course will give participants hands-on practice with intermediate python techniques in addition to some practical theory. The course will cover intermediate topics of the Python programming language, including functional and object-oriented programming as well as the library *biopython* and APIs.

Content

Objectives

- What object-oriented programming is and how to implement it in Python
- What functional programming is and how to implement it in Python (with a focus on higher order functions and list comprehension)
- What an API is and how to access one
- How to use the *biopython* library to analyze biological data

Under development



Open Science for Beginners

Modality: E-learning

Duration: 1.5h

AulaIRTA: Carme Reverté, Xantal Romaguera i

Miguel Ángel López

Target: Open to all

Description

This introductory course on Open Science provides a foundational overview of its eight core pillars, offering clear and accessible insights into each. Designed for beginners, it aims to foster a basic understanding of how Open Science enhances transparency, collaboration, and accessibility in research.

Content

1. Presentation and goals of the course.
2. Overview of Open Science.
3. The 8 pillars of Open Science:
 - Open Access
 - Open Data
 - Research integrity and Reproducibility
 - Education and Skills
 - Open Science Infrastructures
 - Citizen Science
 - Reward and Incentives
 - Next Generation Metrics

Objectives

Provide a comprehensive introduction to the fundamental principles of Open Science.



Understanding the Open Access environment

Modality: On-line

Schedule: To be determined

Editions: 2

Target: Researchers and PhD candidates

Lecturer: Scientific Documentation IRTA -
Xantal Romaguera

Participants: 20

Description

Open Access is unrestricted online access to peer-reviewed scholarly research. This course provides the PhD candidates and researchers deeper knowledge on the topic in order to conduct research according to Open Science principles.

Content

1. Introduction to Open Access
2. Different articles versions
3. How to publish in Open Access
4. Predatory journals
5. APC and transformative agreements
6. Copyright. Creative Commons licenses
7. Requirements of the financing entities
8. IRTA and Pubpro's Open Access Policy
9. Present and future of scientific communication

Objectives

Provide an understand what open access means and all related aspects, at the same time as we reflect on the present and the future of scientific communication

Recommended learning path:

1. Open Science for Beginners
2. Open Access
3. FAIR principles: FAIR Data Management Plan
4. Data Management Plan: PhD candidates & Postdocs
5. Data Management Plan: research projects
6. Publishing Data in FAIR repositories



FAIR Data & Open Data: management of digital data in research projects

Modality: On-line

Schedule: To be determined

Editions: 2

Target: Researchers

Lecturer: Data Steward of IRTA –Carme Reverté

Participants: 20

Description

This course presents an overview on research data management following the EU and FAIR principles.

Content

1. Learn the principles and requirements of the EU on research data management in H2020 and Horizon Europe projects.
2. Importance of FAIR principles
3. Good practices on research data management through FAIR principles

Objectives

Learn the FAIR principles in research data management.

Recommended learning path:

1. Open Science for Beginners
2. Open Access
3. FAIR principles: FAIR Data Management Plan
4. Data Management Plan: PhD candidates & Postdocs
5. Data Management Plan: research projects
6. Publishing Data in FAIR repositories



Data Management Plan – Creation and evaluation of individual data management plans

Modality: Online and on-site

Schedule: To be determined

Editions: 2

Target: PhD candidates and Postdoctoral fellows

Lecturer: Data Steward of IRTA –Carme Reverté

Participants: 20

Description

Good management of research data has numerous advantages both for researchers and for the scientific community in general in order to be able to reuse the data in the future. Through this course you will discover the benefits of developing a data management plan.

Content

1. Introduction and context
2. Data life cycle
3. Structure of a DMP
4. Understand a DMP
5. DMP Evaluation
6. Identify minimum elements of a DMP

Objectives

Provide the knowledge to evaluate and create data management plans

Recommended learning path:

1. Open Science for Beginners
2. Open Access
3. FAIR principles: FAIR Data Management Plan
4. Data Management Plan: PhD candidates & Postdocs
5. Data Management Plan: research projects
6. Publishing Data in FAIR repositories



Data Management Plan: Creation and evaluation of data management plans in consortia

Modality: On-line and on-site

Schedule: June 2, 4, 5 and 9

Editions: 2

Target: Researchers

Lecturer: Data Steward of IRTA –Carme Reverté

Participants: 20

Description

Good management of research data has numerous advantages both for researchers and for the scientific community in general in order to be able to reuse the data in the future. Through this course you will discover the benefits of developing a data management plan.

Content

1. Introduction and context
2. Data life cycle
3. Structure of a DMP
4. Understand a DMP
5. DMP Evaluation
6. Identify minimum elements of a DMP

Objectives

Provide the knowledge to evaluate and create data management plans

Recommended learning path:

1. Open Science for Beginners
2. Open Access
3. FAIR principles: FAIR Data Management Plan
4. Data Management Plan: PhD candidates & Postdocs
5. Data Management Plan: research projects
6. Publishing Data in FAIR repositories



Data curation for Open Data publication

Description

This course provides the knowledge to manage data in a FAIR way. Participants will be introduced to tools and resources that will help in the curation and description of research data so that data can be preserved and reused over time.

Content

1. FAIR principles in data curation.
2. Minimal elements in the review of datasets.
3. Tools to support the curation of tabular data.
4. Signature application to evaluate datasets.
5. Practical case of FAIR data publication.

Objectives

Know the requirements of the funding bodies regarding the management and publication of FAIR data and help minimize the recommendations to improve the management and data sharing plans of the funding bodies

Modality: On-line

Schedule: To be determined

Editions: 2

Target: Researchers

Lecturer: Data Steward of IRTA –Carme Reverté

Participants: 20



Animal organoids as experimental models

Description:

Theoretical and practical training in the generation, culture, and cryopreservation of organoids. Organoids from the respiratory and gastrointestinal tracts will be generated, expanded, and cryopreserved from animal tissue samples

Content

Day 1:

09:30 h – 10:30 h: Course introduction. Introduction to organoids and their applications. Introduction to the protocols that will be used. (Theoretical)

10:30 h – 12:45 h: Tissue cryopreservation and generation of lung organoids. (Practical)

12:45 h – 13:30 h: Lunch break.

13:30 h – 16:30 h: Generation of intestinal and nasal organoids. (Practical)

Day 2 (the following week):

10:00 h – 10:15 h: Introduction to the protocols that will be used. (Theoretical)

10:15 h – 11:30 h: Organoid cryopreservation. (Practical)

11:30 h – 13:00 h: Organoid subculture. (Practical)

Objectives

To train IRTA staff in organoid technology for their use as in vitro experimental models.

Modality: On-site (IRTA CReSA)

Schedule: To be determined (10h)

Editions: 1

Target: Support and technical staff, Researchers and PhD Candidates.

Lecturer: IRTA CReSA - Gerardo Ceada, Núria Navarro and Marta Pérez

Participants: 10



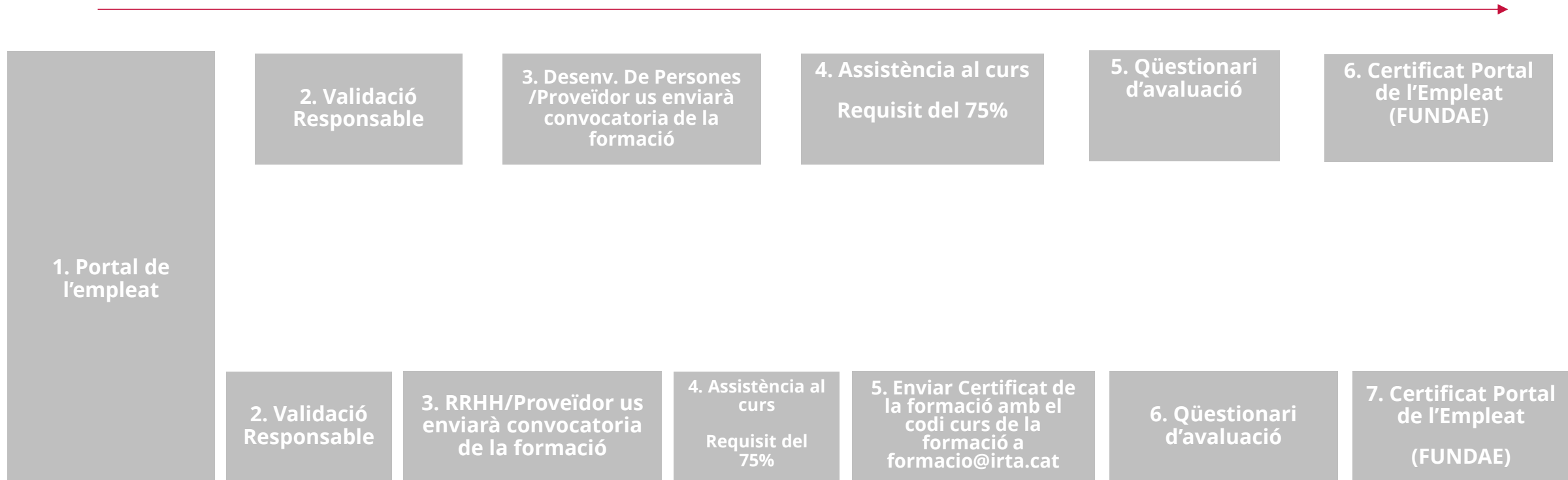
AulaIRTA @

1. [Coneix el nostre Institut](#)
2. [Ciberseguretat](#)
3. [After Work: Culture, Nature and Leasure](#)
4. [Ciberseguretat en el teletreball](#)
5. [Connect with Catalan - Conecta amb el Català](#)
6. [IRTA.cat](#)
7. [Avaluació per Competències](#)
8. [Feedback efectiu i constructiu](#)
9. [Lidera els teus Objectius de Grau](#)
10. [Curs d'Experimentació Animal A B C](#)
11. [Conceptes bàsics d'integritat i risc de frau](#)
12. [Descripció de Llocs de Treball](#)
13. [Com entendre la teva Nòmina](#)
14. [Sistema Integrat de Gestió de l'IRTA](#)
15. [Guia de bones pràctiques d'execució de les activitats de recerca](#)
16. [Nivell Bàsic de Prevenció de Riscos \(50h\)](#)
17. [Formació de Riscos Específics de PVD's](#)
18. [Formació Inicial de Riscos i Específics de PVD's](#)
19. [Formació de Riscos Específics de Laboratori](#)
20. [Formació Inicial de Riscos i Específics de Laboratori](#)
21. [Formació Inicial de Riscos i Específics de Feines de Camp](#)
22. [Formació de Riscos Específics de Feines de Camp](#)
23. [Conceptes bàsics de Bioseguretat i Biocontenció](#)
24. [EPIs \(Equips de Protecció Individual\)](#)
25. [Cabines de Seguretat Biològica](#)
26. [Transport de Material Biològic](#)
21. [Sostenibilitat aplicada a sistemes agroalimentaris](#)
22. [Identificació i gestió de residus generats a IRTA](#)
23. [Economia circular](#)
24. [La proteïna alternativa com a palanca de sostenibilitat](#)
25. [L'ús de subproductes d'origen agroalimentari en la regeneració de sòls agrícoles](#)
26. [Microplàstics](#)
27. [Agricultura regenerativa](#)
28. [Per què el benestar animal és una part integral de la sostenibilitat](#)
29. [Intel·ligència artificial i sostenibilitat](#)
27. [Estrès i Resiliència amb en Xavier Pirla](#)
28. [Seguretat Psicològica en l'entorn professional amb l'Àlex Galofré](#)
29. [Open Science for Beginners](#)
30. [Patent Search](#)



Com sol·licitar la formació

a) Sol·licitar formació inclosa al Pla de Formació










b) Proposar formació NO inclosa al Pla de Formació: Crear nova petició. Emplenament Formulari

Com sol·licitar la formació

a) Sol·licitar formació inclosa al Pla de Formació

- Formació
- Sol·licitar formació inclosa al Pla de Formació
- Proposar formació no inclosa al Pla de Formació
- Consultar sol·licituds pendents formació interna
- Certificats formació interna
- Qüestionaris: Avaluació d'Accions Formatives
- Historial Formatiu

Inscripció	Codigo	Descripció	Sessió	Data inici	Data fi
▼ Motivo: **RDT					
	4167	Becoming a Scientific Writer	1	22/04/2024	29/04/2024
	4660	Research presentations and posters: from design to delivery	1	06/05/2024	14/05/2024
	4161	Workshop on iMarina	2	08/05/2024	08/05/2024
	4676	Competitive Funding: Tools, Perspectives and Processes	1	30/05/2024	06/06/2024
▼ Motivo: TRANSVERSAL					
	4321	Microsoft Excel Avançat: PowerQuery i PowerPivot	1	02/04/2024	18/04/2024
	4630	Microsoft Excel Inicial	1	02/04/2024	16/04/2024
	3175	Formació de prevenció: CAMBRES FRUITCENTRE (Sessió 1)	1	08/04/2024	08/04/2024

Com sol·licitar la formació

b) Proposar formació NO inclosa al Pla de Formació: Crear nova petició. Emplenament Formulari

- Formació
 - Sol·licitar formació inclosa al Pla de Formació
 - **Proposar formació no inclosa al Pla de Formació**
 - Consultar sol·licituds pendents formació interna
 - Certificats formació interna
 - Qüestionaris: Avaluació d'Accions Formatives
 - Historial Formatiu

← Sortir Enviar Petició

Informació General

Dades Generals

Indicar nom de l'acció formativa que consta al diptic / Recordar adjuntar programa

Títol de l'Activitat: *

Tipus d'Activitat: *

Objectiu formatiu: *

Àmbit formatiu: *

Proposa en qualitat de: *

Docent intern? NO

Nom i cognoms docents

Contingut del curs *

Altres Dades:

Lloc del curs: *

Entitat Formadora: *

Modalitat: *

Destinatari/les: *

Objectius finals *

Adjuntar programa

No hi ha registres

Seleccionar arxivat | Ningun arxivat selec. Adjuntar

Dades dels Dies i Horaris

Hores Lectives: *

Data inici: *

Data Final: *

Formació Fundae



fundae.es

a) Com detectar que una formació pot ser bonificada



És una iniciativa Pública creada per millorar la capacitat professional i desenvolupament personal dels treballadors, aconseguir una major promoció i integració social dels treballadors així com una millora de la competitivitat de les empreses, mitjançant la qual les empreses veuran minimitzats els costos de formació que ofereixin als seus empleats.

El mecanisme és simple, totes les empreses disposen d'un crèdit per a la formació dels treballadors, fruit de les aportacions realitzades per l'empresa i els treballadors a la Seguretat Social, per la contingència de formació professional.



MOLTES GRÀCIES PER LA VOSTRA ATENCIÓ

Qualsevol consulta concreta d'algún curs, us podeu posar en contacte amb nosaltres a través de
formacio@irta.cat