



*Espalhando as sementes da ciência aberta -
ferramentas do FOSTER Plus*

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**Fostering the practical implementation of
Open Science in Horizon 2020 and beyond**

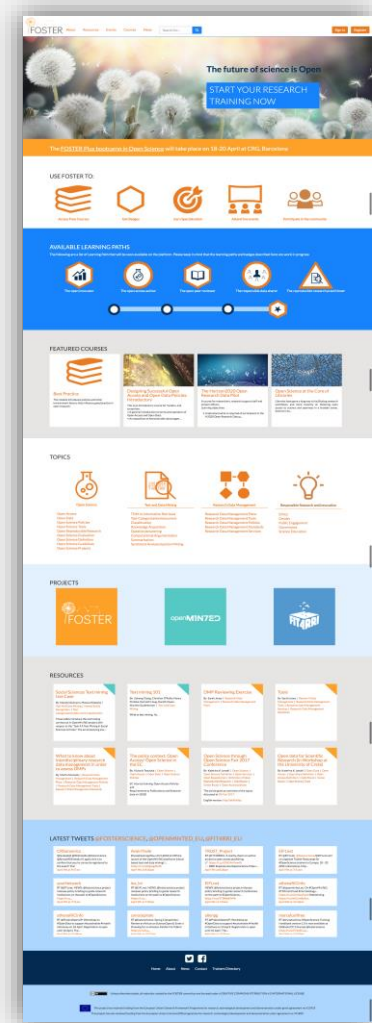
(May 2017 - April 2019)

A large, faint, stylized orange dandelion seed head is positioned in the bottom left corner of the slide, partially overlapping the text.

FOSTER Plus

2017-2019 / 12 parceiros

Objetivo: Apoiar os investigadores individuais, e as organizações (universidades, centros de investigação e outras instituições) onde trabalham, a evoluir da simples consciência e conhecimento para a capacidade de incorporar as práticas da ciência aberta no seu trabalho diário.



A nossa visão

O portal FOSTER

Disponibiliza **recursos, infraestrutura e materiais de apoio** para quem pretenda **obter e melhorar os seus conhecimentos ou organizar eventos de formação** nas suas instituições, de modo a **promover a implementação prática** da Ciência Aberta e a mudança na forma como se faz investigação



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Se precisa de formação

Open Science Toolkit

What is Open Science?

This introductory module will help you to understand what open science is and why it is something you should care about.



Best Practice

This module introduces policies and other environmental factors that influence good practice in open research.



Open Peer Review (OPR)

This module will introduce you to OPR and let you know how you can get started with it.



Data Protection and Ethics

This module helps you to get to grips with responsible data sharing.



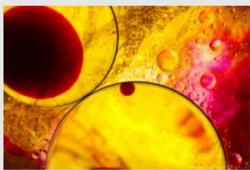
Licensing

This module helps you to find the best license for your open research outputs.



Open Data

In this module, you'll focus on which data you can share and how you can go about doing this most effectively.



OSS and Workflows

This module introduces Open Source Software (OSS) and workflows as an emerging but critical component of Open Science.



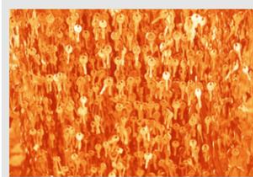
Open Innovation

This module will show you how Responsible Research and Innovation is accelerated through Open Science.



Open Access Publishing

This module will help you become skilled in Open Access publication in the wider context of Open Science.



Preprints

This module introduces the practice of sharing preprints and helps you to see how it can support your research.



www.fosteropenscience.eu/toolkit

Toolkit - estrutura

Definições e informação breve sobre cada um dos temas

Pretende responder a algumas das **perguntas mais comuns** sobre como colocar a ciência aberta em prática

Casos práticos em três áreas disciplinares: **Ciências da Vida, Ciências Sociais e Humanidades**

- vídeos sobre cada uma das temáticas, pequenos blocos de texto, gráficos e imagens e indicação de leituras adicionais.
- economia de esforço - cursos foram concebidos para requerer apenas uma a duas horas de estudo/trabalho.
- avaliação: questionário no seu final.

Exemplo de curso - Open Peer Review

Open Peer Review

This module will introduce you to Open Peer Reviewing and let you know how you can get started with it.

Introduction

This module introduces you to open peer review (OPR), an emerging practice in Open Science.

Upon completing this module, you will:

- understand what OPR means and how it supports Open Science
- be aware of OPR workflows and which aspects of the review process are strongly needed in the peer review process.
- know how to write a constructive and responsible open peer review
- know about useful tools and services that can support you



CC-BY-SA, AJ Cann

OPR in three minutes

In this short video, Tony Ross-Hellauer introduces the concept of open peer review, a practice strongly needed in the peer review process.

What is Open Peer Review? Tony Ross-Hellauer



What does OPR mean?

Definition of OPR

Click the forward arrow to see more.



Transparent & accountable

Open peer review is an umbrella term for various alternative review methods that seek to make classical peer review more transparent and accountable (cf. Ross-Hellauer, 2016).

Quiz - Are you an Open Peer Reviewer?

Transparency can be added to peer review through:

Tick all that apply.

Accessible evaluation reports

Platforms that allow interaction

Revealed identities of reviewers

Submit

Show feedback

What are the benefits of open peer review?

Tick all that apply.

It is not biased

My results can be published more quickly

My review is a citable research output

Submit

Show feedback

Especializações

Cada *learning path* é uma conjugação de vários cursos que atribui uma determinada especialização.

Média 2-4 horas de conteúdo/trabalho

- The reproducible research practitioner
- The responsible data sharer
- The open access author
- The open peer reviewer
- The open innovator



www.fosteropenscience.eu/learning-paths



The responsible data sharer

Sharing data is great but you need to know what data you can share, with whom you can share, when to share, and how best to share. This pathway will equip you with the knowledge you need to make informed decisions about sharing your data responsibly.

Effort: 3-4 hours

Level: intermediate and advanced

The learning path will be completed by finishing the following courses:

- What is open science?
- Managing and sharing research data
- Data protection and ethics
- Open licensing



What is Open Science?



Managing and Sharing Research Data

Learning Management System

Learning Management System (LMS) :

<https://lms.fosteropenscience.eu>

irá apoiar a realização de cursos de *elearning*, em regime de auto-aprendizagem ou com moderação

- Possibilidade de incorporar cursos do toolkit e outros recursos
- Potencial de reutilização dos cursos (por ex. *Toolkit*)
- Novos cursos brevemente

2

Se pretender organizar
uma sessão de formação

Open Science Training Handbook

Making of - Book Sprint em Hannover na Alemanha

- 1 semana
- 14 especialistas (selecionados de entre 29 candidatos)
- 10 países
- primeiro rascunho disponível para comentário público durante quinze dias
- dezenas de comentários recebidos
- nova versão, posteriormente disponibilizada em inúmeros formatos (Gitbook, PDF, ePub, Mobi) a partir do endereço book.fosteropenscience.eu.

Open Science Training Handbook



- Open Science Basics

- Open Concepts & Principles
- Open Research Data & Materials
- Open Research Software & Open Source
- Reproducible Research & Data Analysis
- Open Access to Published Research Results
- Open Licensing & File Formats
- Collaborative Platforms
- Open Peer Review, Metrics & Evaluation
- Open Science Policies
- Citizen Science
- Open Advocacy

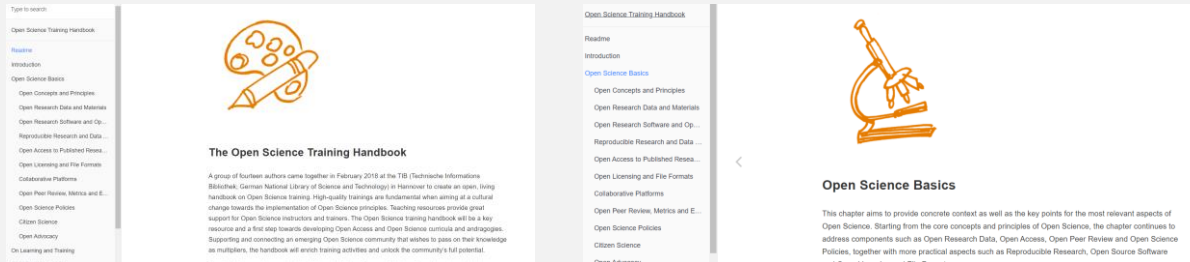
- Introduction
- On Learning & Training
- Organizational Aspects
- Examples & Practical Guidance
- Glossary
- References
- About the Authors & Facilitators

Open Science Training Handbook



- Disponível como GitBook e para download (PDF, epub, mobi)
- Licença CC 0 para facilitar a reutilização

book.fosteropenscience.eu



<https://doi.org/10.5281/zenodo.1212496>

Tradução do OSTH para Português

Making of - Book Sprint português

- 23 tradutores convidados
- 3 revisores
- 3 semanas
- primeiro rascunho disponível aqui: a partir do endereço https://github.com/Open-Science-Training-Handbook/Open-Science-Training-Handbook_PT
- primeira release no Gitbook planeada para início de Novembro de 2018

Agradecemos a vossa valiosa contribuição!

Ana Miguéis

Bella Nolasco

Carla Marques

Carlos Catalão

Carlos Lopes

Cecília Reis

Clara Boavida

Cristina Sousa Lopes

Diana Silva

Filomena Bastos

Gonçalo Praça

Graça Gabriel

Isabel Andrade

Liliana Gonçalves

Manuel Montenegro

Margarida Vargues

Maria da Luz Antunes

Maria João Amante

Rosário Duarte

Sofia Fernandes

Susana Ambrósio

Susana Lopes

Tatiana Sanches

Recommendations for OS training

Boas práticas de formação em Ciência Aberta, direcionadas a investigadores, pessoal de apoio à investigação e bibliotecários:

- Seleção de tópicos de CA para incluir nas atividades de formação;
- Dicas sobre como planear de acordo com os resultados;
- Panorâmica sobre tipos de formações, baseados no tamanho da audiência, fundos disponíveis, duração da formação e nível de conhecimentos;
- Checklist de tarefas de organização;
- Exercícios e glossário.

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FOSTER, Facilitating Open Science in European Research

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July 25, 2018 (v1) Project deliverable Open Access View

Recommendations on Open Science Training

Iryna Kuchma: FOSTER Plus consortium;
Building on Open Science Training Handbook (available as gitbook at <https://book.fosteropenscience.eu/> and in the github repository at <https://github.com/Open-Science-Training-Handbook>), and on successes of over 40 online and face-to-face events that FOSTER organized in 2017-2018, this report provid

Uploaded on August 7, 2018

April 25, 2018 (v1) Conference paper Open Access View

The Open Science training handbook: Written by 14 international experts during the FOSTER Book Sprint

Helene Brinken, Dr. Martin Mehberg, Lambert Heller;
In February 2018, FOSTER Plus and TIB organized a book sprint in order to author an Open Science training handbook collaboratively. For one week, we brought together 14 experienced Open Science educators in Hanover to answer a number of questions: What works, what doesn't? How can you make the

Uploaded on June 11, 2018

March 26, 2018 (v1) Project deliverable Open Access View

Roadmap for Implementing Open Science Training Practices in Research Institutions

Brinken, Helene, Jones, Sarah, Oudenhoven, Martine, Davidson, Joy;
In this policy briefing FOSTER outlines six practical actions to be implemented by research institutions to support a cultural change towards Open Science.

Uploaded on March 28, 2018

New upload

Want your upload to appear in this community?

- Click the button above to upload straight to this community.
- The community curator is notified, and will either accept or reject your upload (see community curation policy above).
- If your upload is rejected by the curator, it will still be available on Zenodo, just not in this community.

Community

FOSTER

FOSTER, Facilitating Open Science in European Research

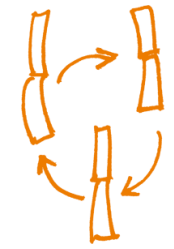
The FOSTER portal is an e-learning platform that brings together the best training resources for those who need to know more about Open Science, or who need to develop strategies and skills for

<https://doi.org/10.5281/zenodo.1341023>

Trainer's corner

- Toolkit de defesa e promoção da Ciência Aberta
- Factsheet do projeto
- Template de poster
- Apresentações padrão
 - Why OS?, What is OS? FOSTER Plus
- Autocolantes e cartas
- Canal do Youtube com videos sobre temáticas de CA
- Ilustrações

<https://www.fosteropenscience.eu/trainers-materials>



FOSTER
Fostering the practical implementation of Open Science in Horizon 2020 and beyond

PHASE I 2014-16 **FOSTER** → **PHASE II 2017-19** **FOSTER Plus**

Results of the first project phase:

- ✓ Open Science training portal with more than 2,000 training materials
- ✓ Training activities reaching more than 6,300 persons:
 - 100 face-to-face courses in 28 countries
 - 25 online courses
- ✓ Definition of learning objectives for target groups
- ✓ Definition of an Open Science Taxonomy

The project aims at supporting European researchers in implementing Open Science principles in their daily workflows. Developing materials and activities, it will foster the Open Science training capacity.

Focus of project activities:

- ✓ discipline-specific needs
- ✓ support of practical implementation
- ✓ advanced-level training material

Specific activities and materials:

- ✓ Practical advice through Open Science toolkit
- ✓ Bootcamp and initiation of Open Science trainers network
- ✓ Handbook for Open Science Training

FOSTER
spreads the seeds of Open Science... and makes Open Science flowers bloom!

Project partners

Universidade do Minho, PT
Universität Göttingen, DE
Open University, UK
Rijksuniversiteit Leiden, NL
University of Edinburgh, UK
University of Glasgow, UK
Danmarks Tekniske Universitet, DK
Stichting LIBER, NL
Consejo Superior de Investigaciones Científicas (CSIC), ES
Leibniz Institut für Sozialwissenschaften (GESIS), DE
Centro de Regulación Genómica (CRG), ES

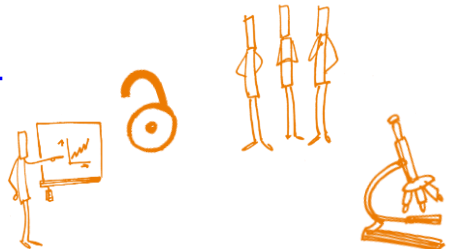
Project details

Acronym: FOSTER Plus
Duration: 01.05.2017 - 01.05.2019
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Helene Brinken
Göttingen State and University Library

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Associated partners: TÜV Hannover, DARIAH-EU

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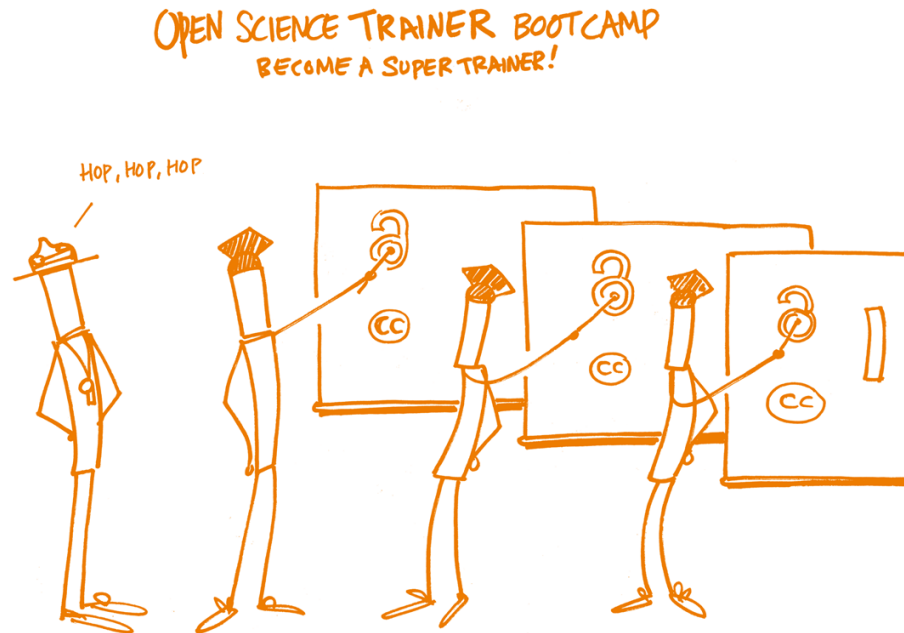


3

Façam parte da nossa
rede!

OS Trainer Bootcamp

- 32 participantes de 16 países (57 candidaturas)
- 40% investigadores, 60% gestores de projeto, bibliotecários, pessoal de apoio à investigação
- Da astronomia e bioinformática às humanidades
- Compromisso: cada participante deverá organizar (pelo menos) uma sessão de formação entre Maio de 2018 e Maio de 2019



Eventos e diretório de Formadores

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Events

Map Satellite

Our trainers

Upcoming events

Event	Date
ESCF2018: "Open Science in Action" sessions & side events Marie Curie Alumni (France) Belgium, EC MSCA Ofisa & FOSTER (Ireland) Grigoris & Rens (Spain) Nantes, France	09.07.2018 - 14.07.2018
Open Science CLINIQUE for EURresearch (Switzerland) Veronique Seiler (URresearch) & Ivo Grigoris (FOSTER) Webinar	24.01.2018
Open Science CLINIQUE for NCPs CaRE Sanna Alaranta (JG202) NCP Call Network & Ivo Grigoris (FOSTER) Webinar	19.04.2018 - 03.05.2018
Open Science Trainer Bootcamp FOSTER Barcelona	18.04.2018 - 20.04.2018
Open Science Clinique, Barcelona Anna Rovira Fernandez (EPIC) & Ivo Grigoris (FOSTER)	16.04.2018
Role of Wikimedia in the era of Open Science CWI, Wikimedia, FOSTER Center for Generic Regulation, Barcelona	16.04.2018

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Trainers directory

Are you planning an event in Open Science and looking for speakers? Take a look at the FOSTER Trainers Directory and find the right speaker for your event.

Filter on topic: Open Access (23) | Open Data (20) | Open Science (14) | Research Data Management (13) | Open Metrics and Impact (13) | Open Science Policies (10) | 34 more...

Filter on audience: Researchers and Students (24) | Librarians and Repository managers (24) | PhD Students (28) | Policy makers and Funders (27) | 8 more...

Filter on spoken language: English (24) (20) | French (10) (5) | German (2) (4) | Spanish (3) (3) | Polish (1) (4) | Greek (1) (2) | 7 more...

- Eloy Rodriguez**
Languages: Portuguese (PT), English (EN), Spanish (ES)
Topics of interest: Open Science | Open Access | Open Data | Open Metrics and Impact | Intellectual Property Rights
Audience: Librarians and Repository managers | Researchers and Students | PhD Students | Policymakers and Funders | Project Managers
- Iryna Kuchina**
Languages: English (EN)
Topics of interest: Open Metrics and Impact | Research Data Management | Open Access | Open Data | Open Science Policies
Audience: Policy makers and Funders | Librarians and Repository managers | Researchers and Students | PhD Students
- Ivo Grigoris**
Languages: English (EN), French (FR), Bulgarian (BG)
Topics of interest: Open Metrics and Impact | Open Science | Open Data | Open Access | Open Peer Review
Audience: Policy makers and Funders | Project Managers | Research Administration | PhD Students | Librarians and Repository managers
- Joel Carvalho**
Languages: Portuguese (PT), English (EN), Spanish (ES), French (FR)
Topics of interest: Open Science | Open Access | Funder policies
Audience: Librarians and Repository managers | Researchers and Students | Project Managers
- Nancy Poudila**
Languages: English (EN), Greek (EL)
Topics of interest: Open Science | Open Access | Open Access Policies | Open Access Definition | Open Access Strategies | Open Access | Open Access and Research | Definition of Open Access | Open Access Research | Open Science Policies | Open Science Tools | Organizational matters | Open Science Guidelines | Open Metrics and Impact | Open Science Definition | Open Repository | Open Science
- Open Franck**
Languages: English (EN), French (FR), Dutch (NL)
Topics of interest: Open Science | Open Access | Intellectual Property Rights | Institutional policies | Open Access policies | Gold Roads | Open Access | Open Science Policies
Audience: Policy makers and Funders | Librarians and Repository managers | Researchers and Students
- Martin Donnelly**
Languages: English (EN)
Topics of interest: Research Data Management | Open Science Policies | Open Access | Open Data | Open Government Data | Funder policies | Governmental policies | Institutional policies | Open Access policies | Open Data Policies
Audience: Policy makers and Funders | Librarians and Repository managers | Project Managers | Researchers and Students
- Remedios Molero**
Languages: English (EN), Spanish (ES), Catalan (CA), Italian (IT)
Topics of interest: Open Access | Open Data | Open Science Policies | Intellectual Property Rights
Audience: Librarians and Repository managers | PhD Students | Policymakers and Funders | Researchers and Students

Para saber mais...



Universidade do Minho
Serviços de Documentação

The screenshot shows the FOSTER website homepage. At the top left is the FOSTER logo, which includes a stylized dandelion and the text 'FOSTER'. To the right of the logo are navigation links: 'About', 'Resources', 'Events', 'Courses', and 'News'. Further right is a search bar with the placeholder text 'Search for...' and a magnifying glass icon. On the far right of the top navigation are two orange buttons: 'Sign in' and 'Register'. The main content area features a large background image of dandelions with seeds blowing in the wind. Overlaid on this image is the text 'The future of science is Open' in a dark blue font. Below this, a blue rectangular box contains the text 'START YOUR RESEARCH TRAINING NOW' in white, all-caps font. At the bottom of the screenshot, there is an orange horizontal bar.

www.fosteropenscience.eu/





Obrigada! Questões?

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