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Marta Jordan
Nuria Álvarez

Universitat Autònoma de Barcelona

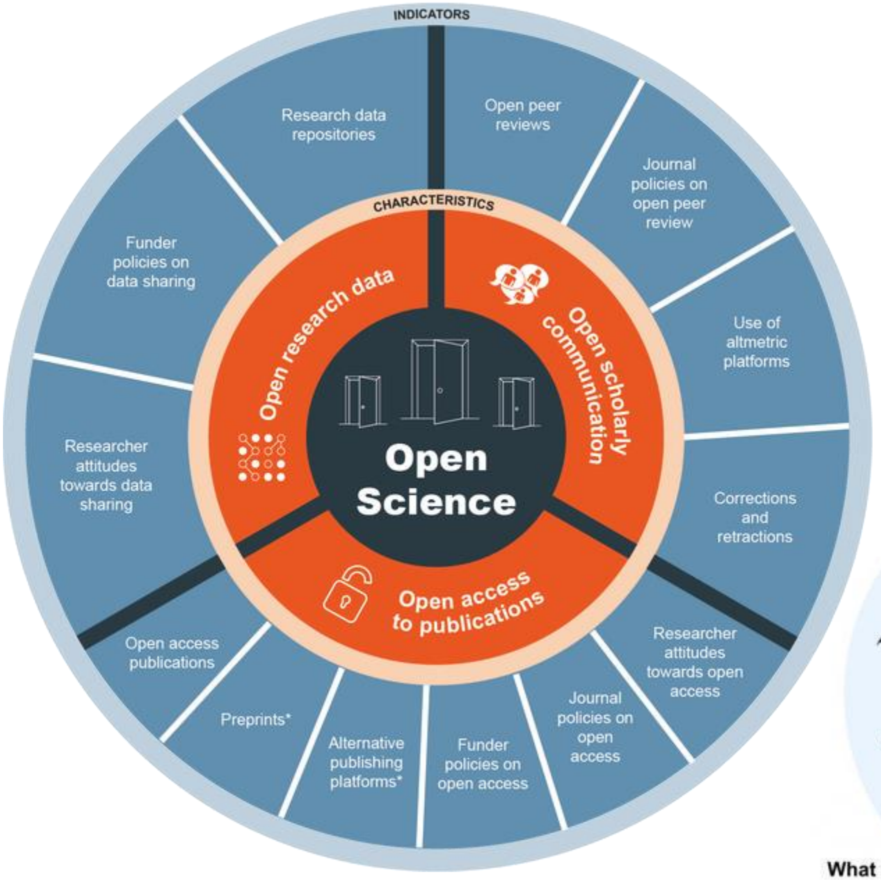
Bellaterra, November 2022

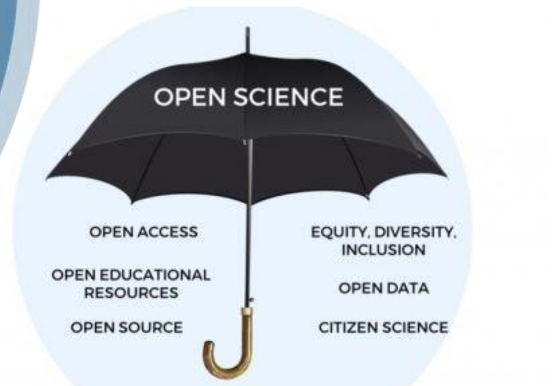
We will talk about...

- Open Science
- Open Access:
  - What is it?
  - Benefits
  - Legal framework
  - Creative Commons Licenses
  - Open access routes
- Publishing:
  - Before publication
  - Where?
  - Publishers' policies
  - Versions of the document
- Open Access at the UAB
- Open research data
- Good practices and suggestions

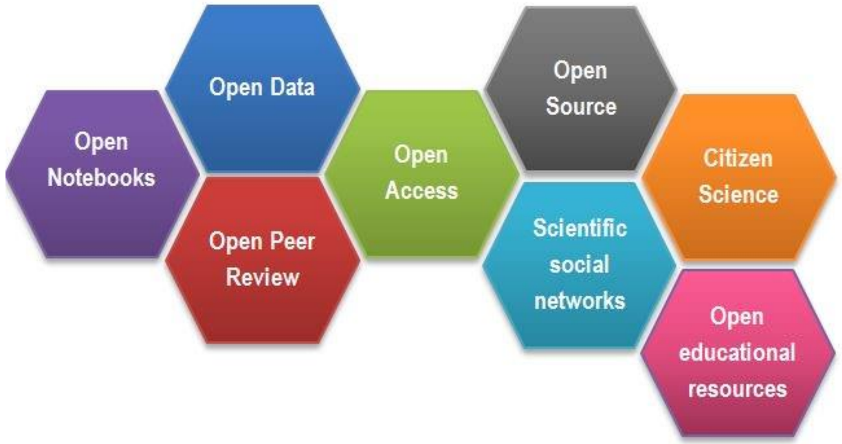
Open Science

- New approach to scientific research based on cooperative workflows and new ways of dissemination through digital technologies and collaborative tools
- Stronger interaction between researchers and society
- Higher productivity, efficiency and transparency
- Better response to research needs in all areas





What do we mean when we talk about Open Science?
Image courtesy of Robin Champieux



Open access: what is it?

Free availability on the public Internet, permitting any users to ***read, download, copy, distribute, print, search or use*** *for any other lawful purpose,* ***without financial, legal or technical barriers***.

Budapest Manifesto, February 2002

Open access ≠ Free access

Open access: benefits

Increases **visibility** and, consequently, dissemination and impact of scientific production. Increase in citations.

Increases the **accessibility** of research papers without further expense.

Allows authors to decide the **rights** to be kept or transferred and the conditions.

Gives back to **society** the investment made in research.

Preserves research results in the long term.

Open access: legal framework

- Real decreto 99/2011, de 28 de enero, por el que se regulan las enseñanzas oficiales de doctorado.
- Ley 17/2022, de 5 de septiembre, por la que se modifica la Ley 14/2011, de 1 de junio, de la Ciencia, la Tecnología y la Innovación. Artículo 37

UAB

- UAB open Access institutional policy (2012)
- UAB institutional policy on open access to research data (2020)

Funding agencies with requirements about open access publishing

(Spanish Plan Estatal, European Commision Horizon 2020 and Horizon Europe programmes, etc.)

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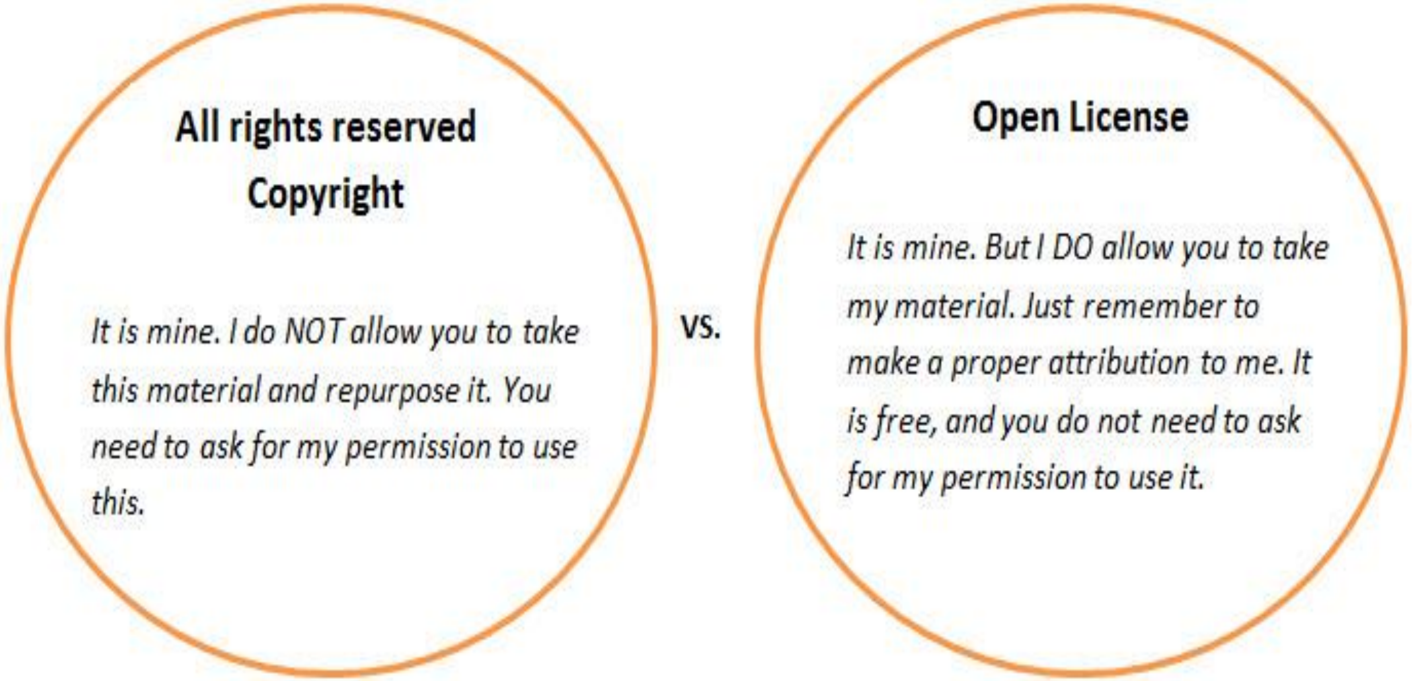

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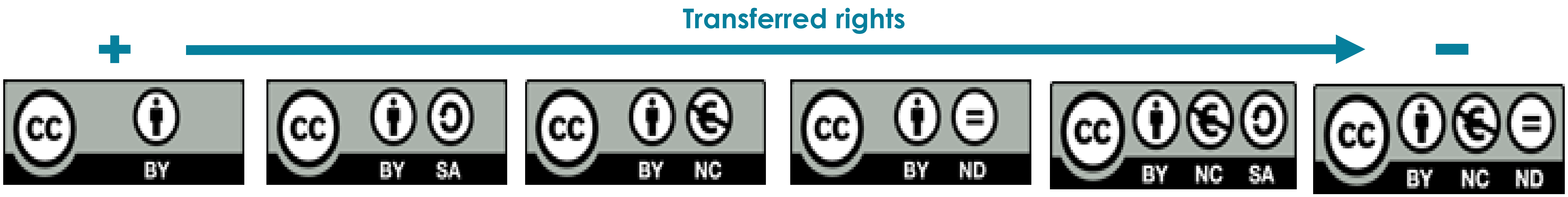

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Bronze and green... how can be open?

A trusted digital repository is one whose mission is to provide reliable, ***long-term access to managed digital resources*** *to its designated community, now and in the future.*

OCLC - 2002

+ An unexpected route

HYBRID

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Prior to publishing

Find out about that journal

To know...

- Expertise, reputation and impact
- Subject scope
- Publishing deadlines
- Peer review system
- Geographical scope: international, national, local
- Instructions for authors
- **Publisher's policy on copyright and open access**
- **Level of compliance with the funding agencies requirements**

The Cycle of Scholarly Communication

www.uab.cat/biblioteques/comunicacio-recerca

Publishers’ self-archiving policies

SHERPA/RoMEO

Publishers’ copyright policies & self-archiving

https://v2.sherpa.ac.uk/romeo/

DULCINEA

Spanish publishers’ copyright policies & self-archiving

https://www.accesoabierto.net/dulcinea/

ACS Nano

SHERPA/RoMEO

Publication Information

Title	ACS Nano [English]
ISSNs	Print: 1936-0851 Electronic: 1936-086X
URL	http://pubs.acs.org/journal/ancac3
Publishers	American Chemical Society [Society Publisher]
TJ Status	Plan S Approved Jisc Approved

Publisher Policy

Open Access pathways permitted by this journal's policy are listed below by article version. Click on a pathway for a more detailed view.

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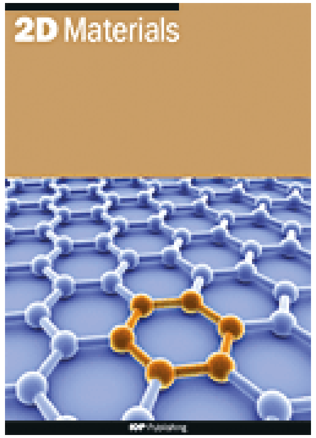

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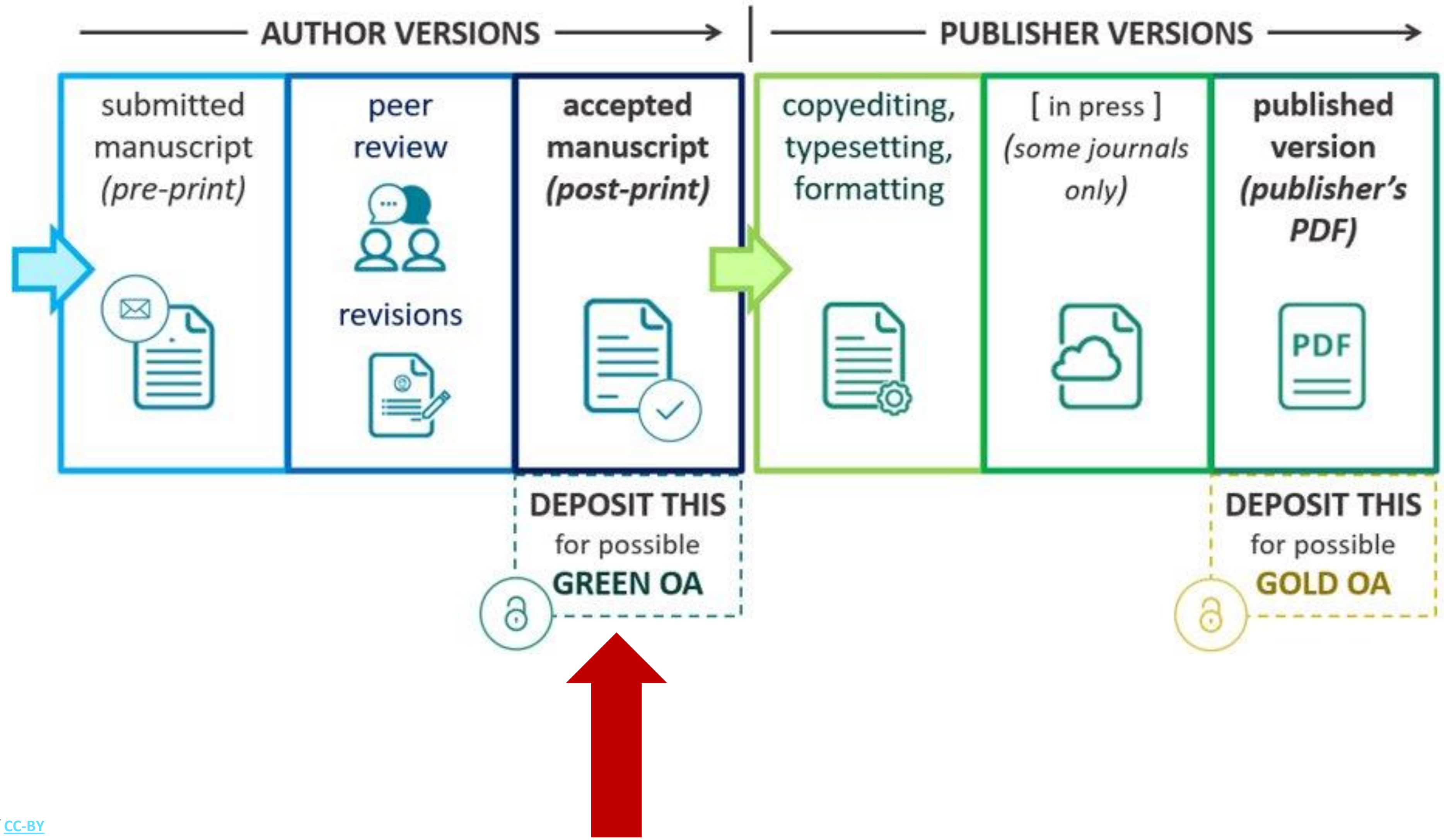

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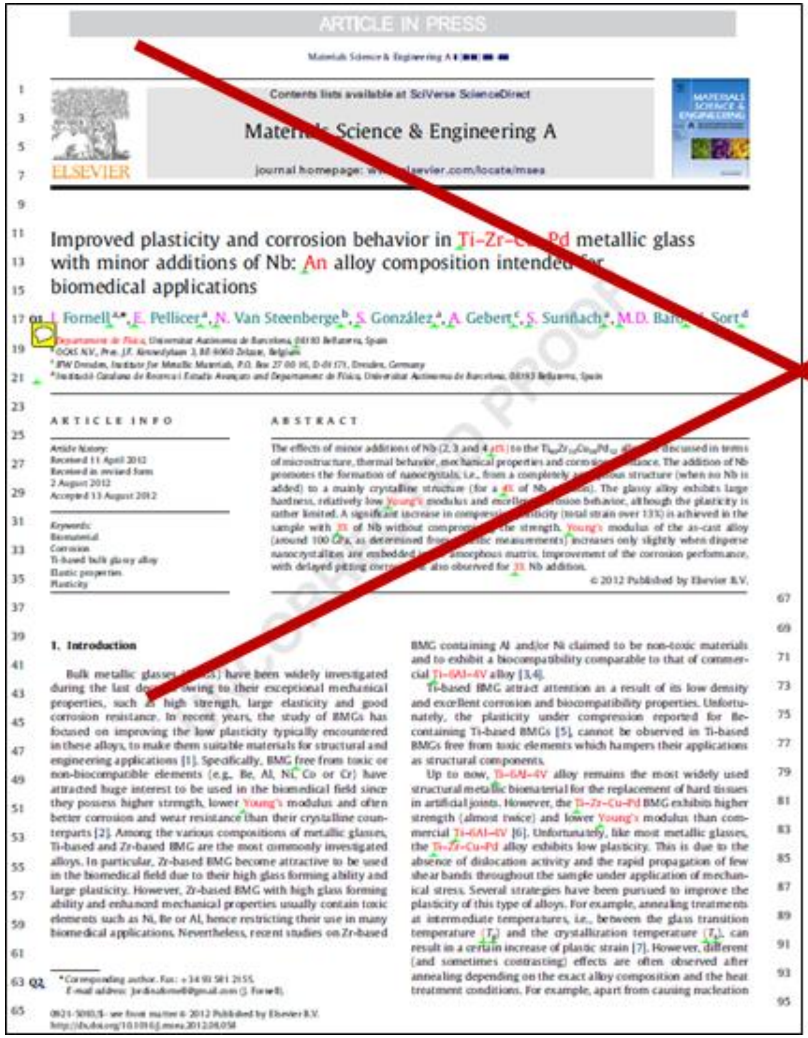
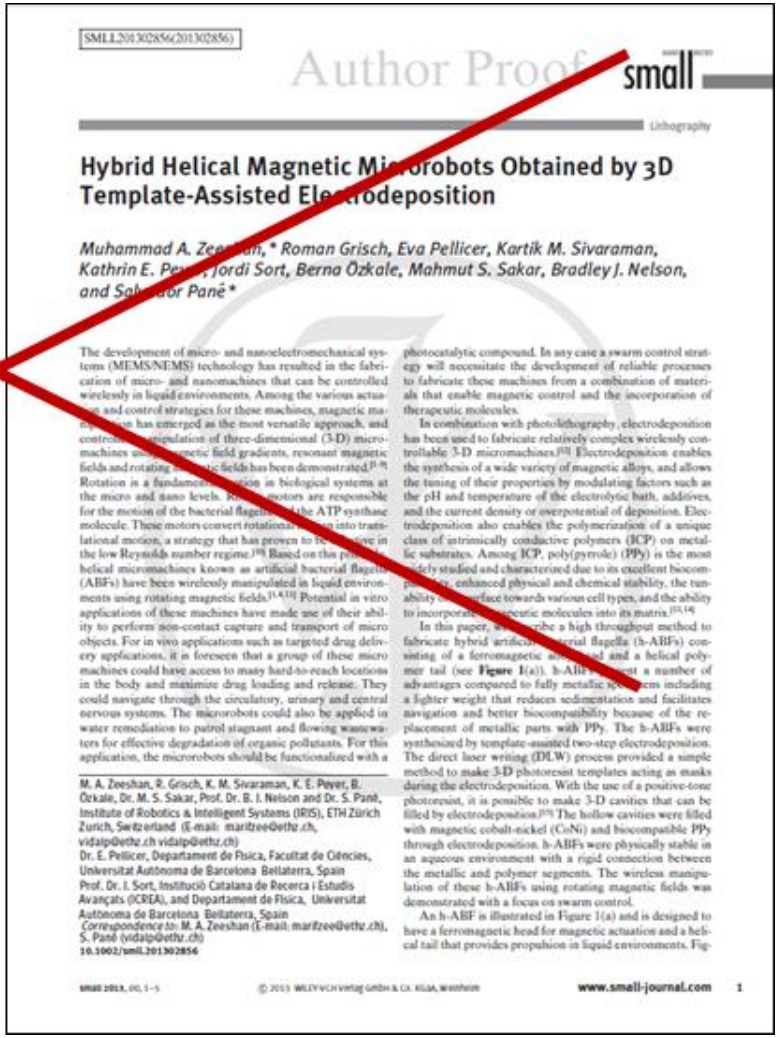

ARTICLE IN PRESS

Materials Science & Engineering A

journal homepage: www.elsevier.com/locate/msea

Improved plasticity and corrosion behavior in Ti–Zr–Cu–Pd metallic glass with minor additions of Nb: An alloy composition intended for biomedical applications

1. Introduction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Hybrid Helical Magnetic Microrobots Obtained by 3D Template-Assisted Electrodeposition

Muhammad A. Zeeshan,* Roman Grisch, Eva Pellicer, Kartik M. Sivaraman, Kathrin E. Peyer, Jordi Sort, Berna Özkale, Mahmut S. Sakar, Bradley J. Nelson, and Salvador Pané*

www.small-journal.com

Proper accepted version

Focal release of neurotrophic factors by biodegradable microspheres enhance motor and sensory axonal regeneration in vitro and in vivo

Daniel Santos[1,2], Guido Giudetti[3], Silvestro Micera[3,4], Xavier Navarro[1,2], Jaume del Valle[1,2]

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Velocity of change in vegetation productivity over northern high latitudes

Mengtian Huang[1], Shilong Piao[1,2], Ivan A. Janssens[3], Zaichun Zhu[1], Tao Wang[2], Donghai Wu[1], Philippe Ciais[1,4], Ranga B. Myneni[5], Marc Peaucelle[4,6,7], Shushi Peng[1], Hui Yang[1], Josep Peñuelas[6,7]

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[5] Department of Earth and Environment, Boston University, Boston, Massachusetts 02215, USA.

[6] CREAF, Cerdanyola del Vallès, Barcelona 08193, Catalonia, Spain.

[7] CSIC, Global Ecology Unit CREAF-CSIC-UAB, Bellaterra, Barcelona 08193, Catalonia, Spain.

Incentives to open access publishing

Contracts with publishers to publish in 5.500 journals free of charge (usually hybrid route).

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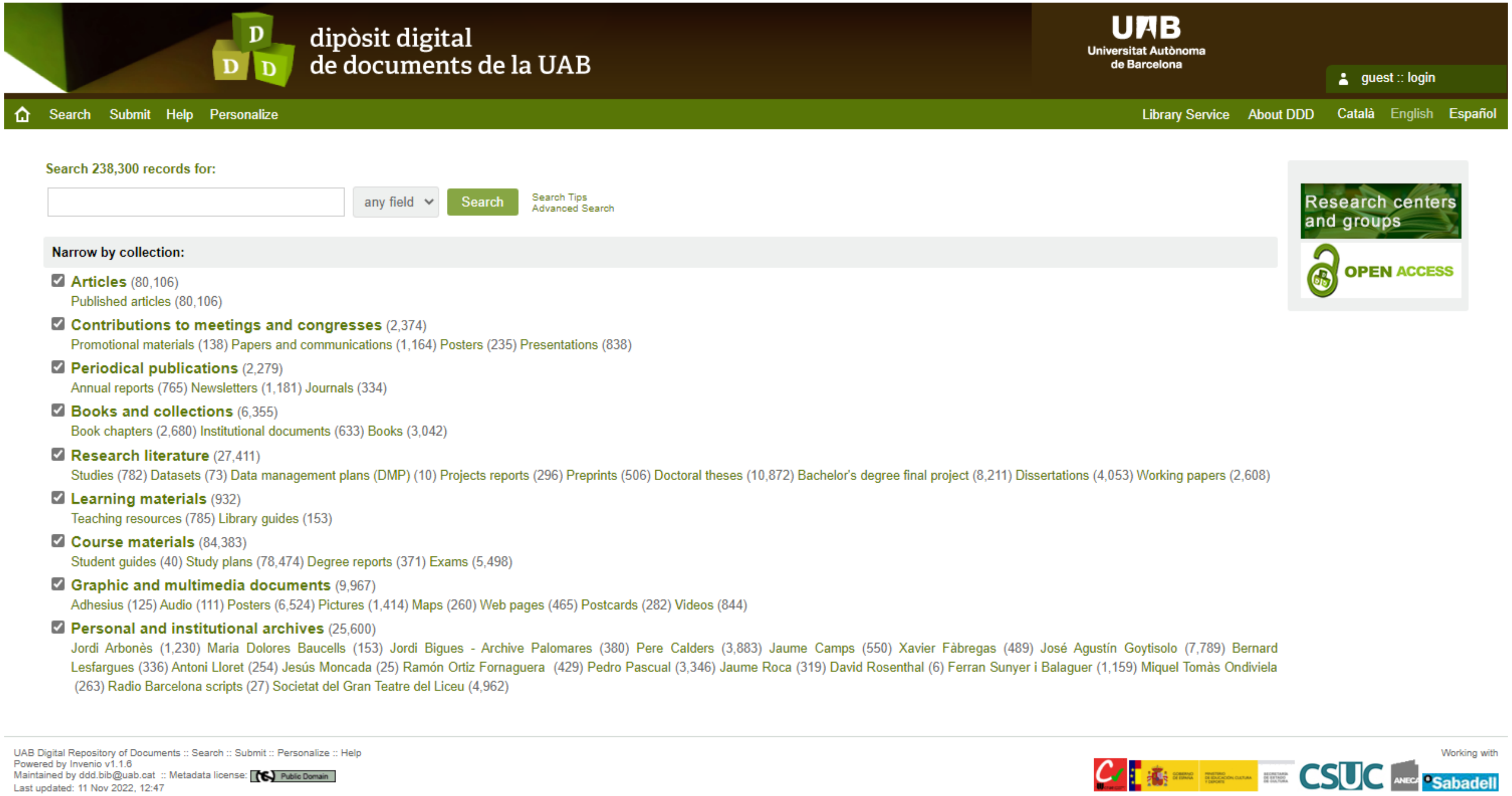

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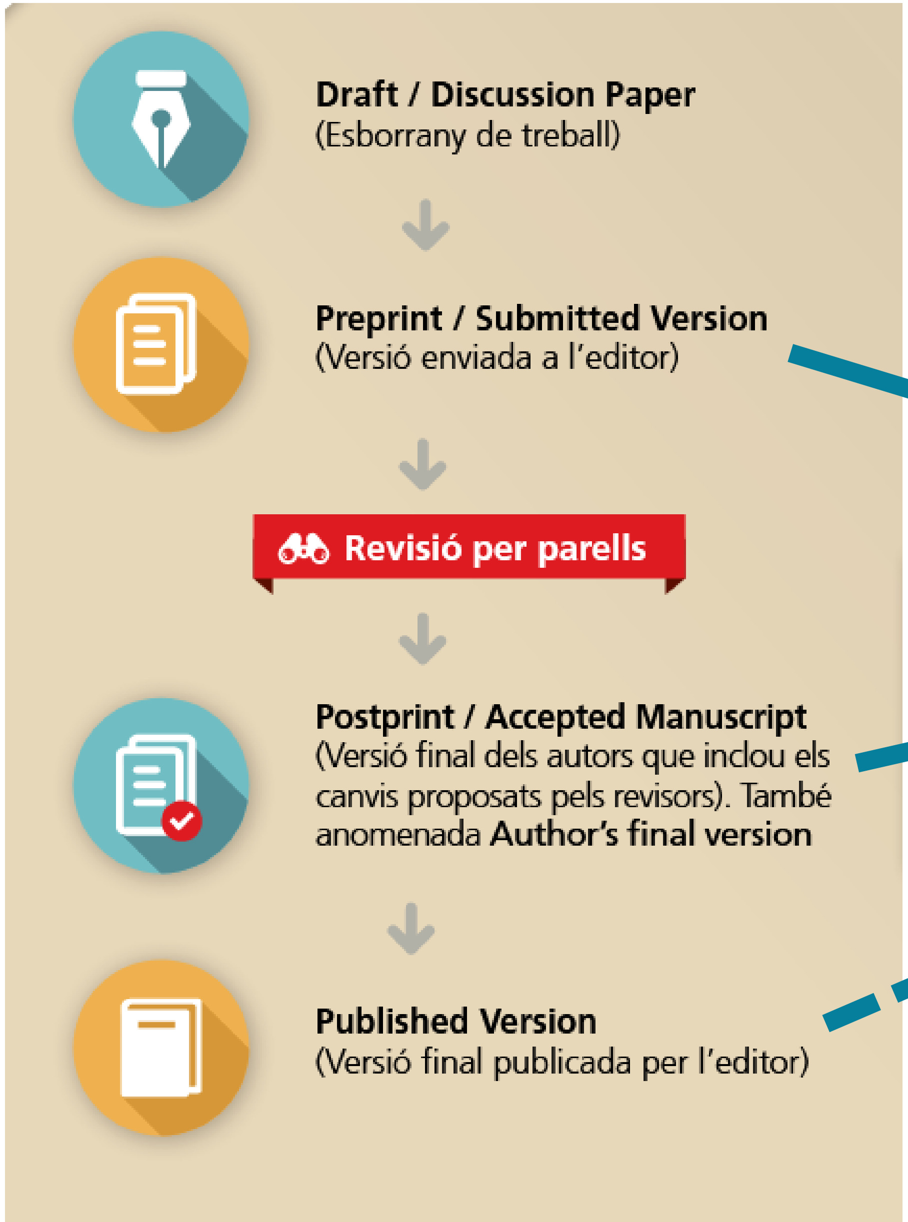
Xile	772	728

Article versions



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Informació | Discussió (0) | Estadístiques d'ús

Cita bibliogràfica -- Enllaç permanent: https://ddd.uab.cat/record/147137

Novel Ti–Zr–Hf–Fe Nanostructured Alloy for Biomedical Applications

Hynowska, Anna (Universitat Autònoma de Barcelona. Departament de Física)
Blanquer, Andreu (Universitat Autònoma de Barcelona. Departament de Biologia Cel·lular, Fisiologia i Immunologia)
Pellicer Vilà, Eva M. (Eva Maria) (Universitat Autònoma de Barcelona. Departament de Física)
Fornell Beringues, Jordina (Universitat Autònoma de Barcelona. Departament de Física)
Suriñach, Santiago (Suriñach Cornet) (Universitat Autònoma de Barcelona. Departament de Física)
Baró, M. D. (Universitat Autònoma de Barcelona. Departament de Física)
González, Sergio (Universitat Autònoma de Barcelona. Departament de Física)
Ibáñez, Elena (Universitat Autònoma de Barcelona. Departament de Biologia Cel·lular, de Fisiologia i d'Immunologia)
Barrios, L. (Leonardo) (Universitat Autònoma de Barcelona. Departament de Biologia Cel·lular, de Fisiologia i d'Immunologia)
Nogués, C. (Carme) (Universitat Autònoma de Barcelona. Departament de Biologia Cel·lular, de Fisiologia i d'Immunologia)
Sort Viñas, Jordi (Universitat Autònoma de Barcelona. Departament de Física) *Amaga*

Data: 2013

Resum: The synthesis and characterization of Ti40Zr20Hf20Fe20 (atom %) alloy, in the form of rods (⌀ = 2 mm), prepared by arc-melting, and subsequent Cu mold suction casting, is presented. The microstructure, mechanical and corrosion properties, as well as in vitro biocompatibility of this alloy, are investigated. This material consists of a mixture of several nanocrystalline phases. It exhibits excellent mechanical behavior, dominated by high strength and relatively low Young's modulus, and also good corrosion resistance, as evidenced by the passive behavior in a wide potential window and the low corrosion current densities values. In terms of biocompatibility, this alloy is not cytotoxic and preosteoblast cells can easily adhere onto its surface and differentiate into osteoblasts.

Nota: Número d'acord de subvenció EC/FP7/264635
Nota: Número d'acord de subvenció MICINN/MAT2011-27380-C02-01
Nota: Número d'acord de subvenció MICINN/TEC2011-29140-C03-03
Nota: Número d'acord de subvenció AGAUR/2009-SGR-282
Nota: Número d'acord de subvenció AGAUR/2009-SGR-1292

Llengua: Anglès
Document: article ; recerca ; publishedVersion
Matèria: Ti-based alloy ; Biomaterial ; Microstructure ; Mechanical behavior ; Corrosion performance

Publicat a: *Materials*, Vol. 6 (2013) , p. 4930-4945, ISSN 1996-1944

DOI: 10.3390/ma6114930
PMID: 28788368

Edit it or check record history
Google Scholar: citations

Label-free and reagentless electrochemical genosensor based on graphene acid for meat adulteration detection

Flauzino, J. M. R. (Institut Català de Nanociència i Nanotecnologia)
Nguyen, Emily P. (Institut Català de Nanociència i Nanotecnologia)
Yang, Qiuyue (Institut Català de Nanociència i Nanotecnologia)
Rosati, Giulio (Institut Català de Nanociència i Nanotecnologia)
Panáček, David (Institut Català de Nanociència i Nanotecnologia)
Brito-Madurro, Ana G. (Federal University of Uberlândia. Institute of Biotechnology (Brazil)) [...] Show all 10 authors

Date: 2022

Abstract: With the increased demand for beef in emerging markets, the development of quality-control diagnostics that are fast, cheap and easy to handle is essential. Especially where beef must be free from pork residues, due to religious, cultural or allergic reasons, the availability of such diagnostic tools is crucial. In this work, we report a label-free impedimetric genosensor for the sensitive detection of pork residues in meat, by leveraging the biosensing capabilities of graphene acid - a densely and selectively functionalized graphene derivative. A single stranded DNA probe, specific for the pork mitochondrial genome, was immobilized onto carbon screen-printed electrodes modified with graphene acid. It was demonstrated that graphene acid improved the charge transport properties of the electrode, following a simple and rapid electrode modification and detection protocol. Using non-faradaic electrochemical impedance spectroscopy, which does not require any electrochemical indicators or redox pairs, the detection of pork residues in beef was achieved in less than 45 min (including sample preparation), with a limit of detection of 9% w/w pork content in beef samples. Importantly, the sample did not need to be purified or amplified, and the biosensor retained its performance properties unchanged for at least 4 weeks. This set of features places the present pork DNA sensor among the most attractive for further development and commercialization. Furthermore, it paves the way for the development of sensitive and selective point-of-need sensing devices for label-free, fast, simple and reliable monitoring of meat purity.

Grants: European Commission 881603
Agencia Estatal de Investigación SEV-2017-0706
European Commission 683024

Note: Altres ajuts: CERCA Programme/Generalitat de Catalunya

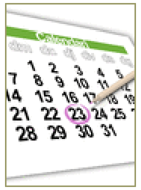
Language: Anglès

Document: Article ; recerca ; Versió acceptada per publicar

Subject: Food adulteration ; DNA biosensor ; Non-faradaic electrochemical impedance spectroscopy ; Beef ; Pork

Published in: *Biosensors and bioelectronics*, Vol. 195 (January 2022) , art. 113628, ISSN 1873-4235

DOI: 10.1016/j.bios.2021.113628



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- **Downloads:** 1,093

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... Other	273	254	

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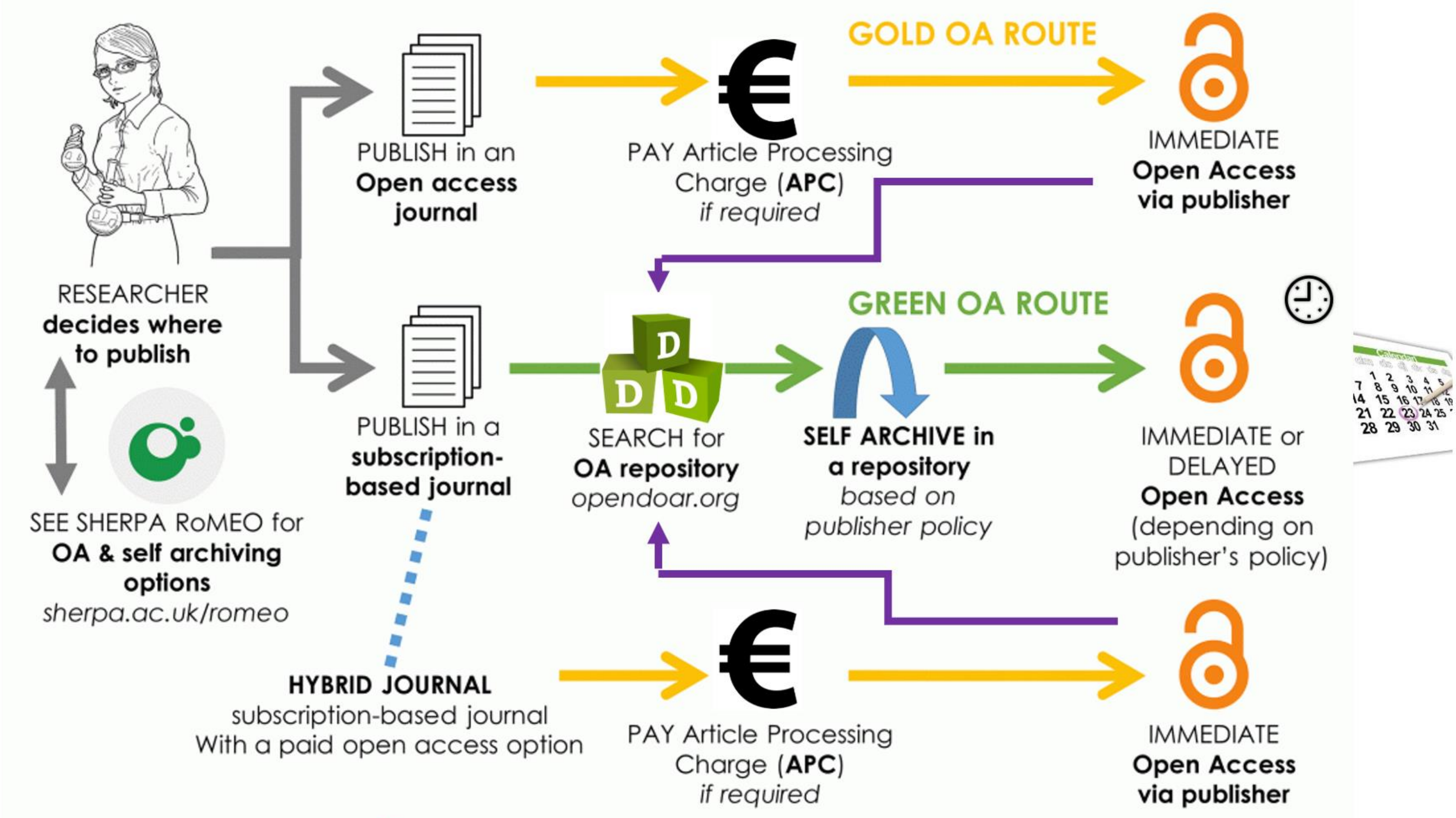

Darren Chase | darren.chase@stonybrook.edu Stony Brook University | Libraries

Open research data: benefits

- Reinforces **open science**: data available to reuse for free
- Enhances the visibility and **impact** of one's research
- The identification with a **DOI** allows citation and metrics
- Provides **transparency to research** strengthening replicability, reproducibility and data verification
- Promotes innovation thanks to data **sharing** and **reuse**
- Avoids redundancy and duplicity in data collection: **optimizes** researcher's time and efforts
- Offers more opportunities to **collaborate** and create scientific debates

Good practices and suggestions

Create → Publish → Disseminate

Create

- Cite properly
- Standardised name and affiliation
- ORCID
- Google Scholar

Publish

- Choose journal
- Open access
- Keep ALL versions

THINK CHECK SUBMIT

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Disseminate

- Identify the file (authorship, version and mention of rights)
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Aquest web conté un recull de preguntes més freqüents (PMF) que aporten informació en matèria de propietat intel·lectual i accés obert, de caràcter orientatiu i sense que es puguin considerar, en cap cas, assessorament jurídic per part de la Universitat Autònoma de Barcelona. Hi podeu accedir fent una cerca a la casella o bé navegant per les carpetes temàtiques. El web ha estat preparat i redactat en Català, tot i que s'ofereix la traducció a l'Espanyol i a l'Anglès, les quals són meres traduccions automàtiques realitzades amb programaris de traducció automàtica que podrien contenir imprecisions respecte la versió catalana.

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13 PREGUNTES

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21 PREGUNTES

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Publicació de la producció científica al Dipòsit Digital de Documents de la Universitat (DDD).

9 PREGUNTES

Docència i material docent

Elaboració, ús i publicació de materials docents.

13 PREGUNTES

Thanks!

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