

Open Science CLINIQUE for NCP CaRE Network, 26 Apr 2018

# Open Access to publications: Copyright, legal issues, e-infrastructures

# Seminar Hosts & Agenda:



**Sanna Alaranta**  
**LUXINNOVATION**



**Ivo Grigorov**  
**H2020 FOSTER+**

**Why this webinar series?**  
**NCP-NOADs Matchmaking**

**Key Presentation today: Ivo Grigorov**

(with special thanks to OpenAIRE, Jeannette Ekstrom at DTU, FOSTER+ Partners)



# National Open Access Desks

[www.openaire.eu](http://www.openaire.eu)

# Two faceted e-Infrastructure

## *Human Network*

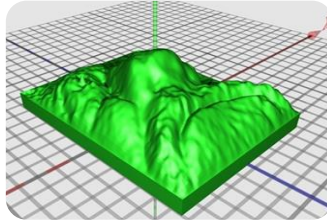
Integrated Scientific Information

System with access to: 22 million publications, 600 K datasets, 980 data providers, 700K publications linked to projects from 12 funders...

33 expert nodes all over Europe to helping with: Open Science training & support, OA policy alignment, Technical assistance...

## *Digital Network*

# NOADs - Support and training overview



**NOAD  
network  
coordination**

**H2020 OA  
policy  
training  
and  
support**

**RESEARCH  
DATA  
Management  
training  
and  
support**

**GUIDE-  
LINES for  
Data  
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Updated on 20 February 2017

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**Eloy Rodriguez**

**Languages:** Portuguese (PT), English (EN), Spanish (ES)

**Topics/Fields:** Open Science | Open Data | Open Metrics and Impact | Intellectual Property Rights

**Audience:** Librarians and Repository managers | Researchers and Students | PhD Students | Policy makers and Funders | Project Managers



**Inma Kuchma**

**Languages:** English (EN)

**Topics/Fields:** 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 Grigorov**

**Languages:** English (EN), French (FR), Bulgarian (BG)

**Topics/Fields:** Open Metrics and Impact | Open Science | Open Data | Open Access | Open Peer Review

**Audience:** Librarians and Repository managers | PhD Students | Policy makers and Funders | Project Managers | Research Administration | Researchers and Students



**José Carvalho**

**Languages:** Portuguese (PT), English (EN), Spanish (ES), French (FR)

**Topics/Fields:** Open Science | Open Access | Funding Policies

**Audience:** Librarians and Repository managers | Researchers and Students | Project Managers



**Nancy Pontika**

**Languages:** English (EN), Czech (CZ)

**Topics/Fields:** Open Science | Open Access | Open Access Review | Open Access Definition | Open Access Initiatives | Open Access | Open Science Use and Reuse | Definition of Open Reproducible Research | Open Science Workflow | Open Reproducible Research | Open Science Policy | Open Science Tools | Organisational mandates | Open Science Guidelines | Open Metrics and Impact | Open Science Definition | Open Repository | Open Science

**Audience:** Librarians and Repository managers | PhD Students | Policy makers and Funders | Project Managers | Research Administration | Researchers and Students



**Martin Donnelly**

**Languages:** English (EN)

**Topics/Fields:** Research Data Management | Open Science Policies | Open Access | Open Data | Open Government Data | Funding 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 Melero**

**Languages:** English (EN), Spanish (ES), Catalan (CA), Italian (IT)

**Topics/Fields:** Open Access | Open Data | Open Science Policies | Intellectual Property Rights

**Audience:** Librarians and Repository managers | PhD Students | Policy makers and Funders | Researchers and Students



**Sarah Jones**

**Languages:** English (EN)

**Topics/Fields:** Open Data | Research Data Management | Open Science Policies

**Audience:** Librarians and Repository managers | Researchers and Students | PhD Students | Policy makers and Funders | Project Managers | Research Administration



**Pedro Pinheiro**

**Languages:** Portuguese (PT), English (EN), Spanish (ES)

**Topics/Fields:** Open Science | Open Access | Open Data | Open Metrics and Impact | Research Data Management

**Audience:** Librarians and Repository managers | Policy makers and Funders | Researchers and Students | Research Administration



**Vanessa Proudman**

**Languages:** English (EN), Czech (CZ), German (DE)

**Topics/Fields:** Open Access

**Audience:** Librarians and Repository managers | Researchers and Students | PhD Students | Policy makers and Funders | Research Administration



**Birgit Schmidt**

**Languages:** English (EN), German (DE)

**Topics/Fields:** Open Science | Open Access | Open Metrics and Impact | Intellectual Property Rights

**Audience:** Librarians and Repository managers | PhD Students | Policy makers and Funders | Project Managers | Researchers and Students

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# Previous Key Talk:



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**What is Open Access?**

**Open Access Mandate**

**Open Research Data Mandate**

**Data Management Plans**

**Repositories and Licensing**

[www.fosteropenscience.eu/node/2153](http://www.fosteropenscience.eu/node/2153)



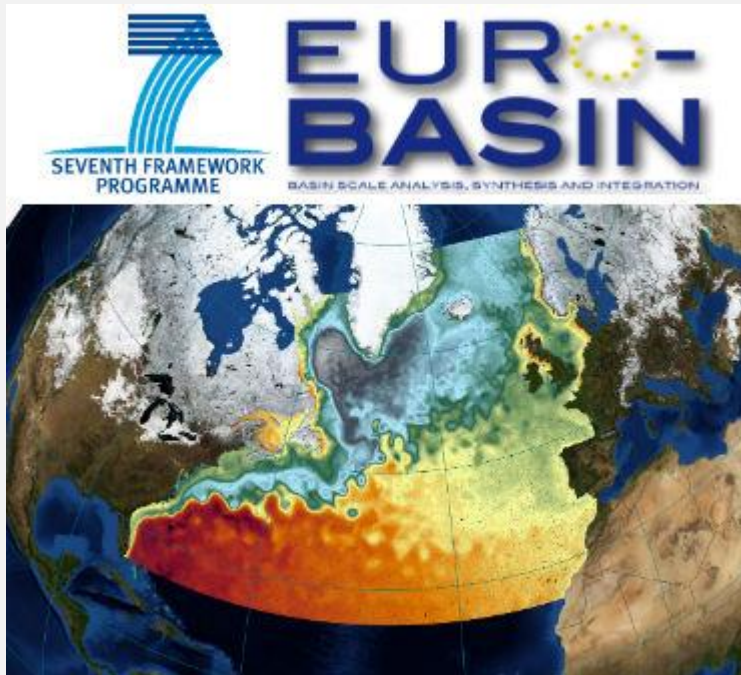
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# Key Talk Today:

**100% Open Access Publications  
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copyright infringement?**

**Open Access routes?  
Who owns what, when?  
Costs versus Copyright?**

# 100% Open Access Publications for free & without copyright infringement?



- FP7-ENV, Large-scale integrating project
- 6.9M EUR EU funding
- 24 EU partners
- 140 Publications  
(+179 datasets)

# Open Access Scoreboard

Project Acronym (start-end)	Topic	# Partners	# Literature Outputs	# Data Outputs	Open Access
EPOCA (2008-2012)	Ocean acidification	32	472	350	?
HYPOX (2009-2012)	Oxygen depletion (hypoxia)	20	57	411	?
HERMIONE (2009-2012)	Biodiversity hotspots	41	393	482	?
CARBOCHANGE (2011-2015)	Carbon exchange with atmosphere	30	261	430	?
EURO-BASIN (2010-2014)	Atlantic renewable resources	24	140	179	?

Source: S.Pesant, H2020 OpenAIRE-CONNECT

# Open Access Scoreboard

Project Acronym (start-end)	Topic	# Partners	# Literature Outputs	# Data Outputs	Open Access
EPOCA (2008-2012)	Ocean acidification	32	472	350	<b>51%</b>
HYPOX (2009-2012)	Oxygen depletion (hypoxia)	20	57	411	<b>58%</b>
HERMIONE (2009-2012)	Biodiversity hotspots	41	393	482	<b>69%</b>
CARBOCHANGE (2011-2015)	Carbon exchange with atmosphere	30	261	430	<b>84%</b>
EURO-BASIN (2010-2014)	Atlantic renewable resources	24	140	179	<b>98%</b>

Source: S.Pesant, H2020 OpenAIRE-CONNECT

## EURO-BASIN, North Atlantic Marine Ecosystem Research

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Search EURO-BASIN, North Atlantic Marine Ecosystem Research December 18, 2015 (1) [Journal article](#) [Open Access](#)[View](#)**Naupliar and Metanaupliar Development of *Thysanoessa raschii* (Malacostraca, Euphausiacea) from Godthåbsfjord, Greenland, with a Reinstatement of the Ancestral Status of the Free-Living Nauplius in Malacostracan Evolution**

Alkner, Haana; Agersted, Mette Selgaard; Olesen, Jørgen;

The presence of a characteristic crustacean larval type, the nauplius, in many crustacean taxa has often been considered one of the few uniting characters of the Crustacea. Within Malacostraca, the largest crustacean group, nauplii are only present in two taxa, Euphausiacea (krill) and Decapoda (Dend

Uploaded on May 19, 2016

July 1, 2015 (1) [Journal article](#) [Open Access](#)[View](#)**Interactive effects of temperature and light during deep convection: a case study on growth and condition of the diatom *Thalassiosira weissflogii***

Walzer, S.; Peters, J.; van Baarskom, J. E. E.; St. John, M. A.;

Aim of this study was to expose phytoplankton to growth conditions simulating deep winter convection in the North Atlantic and thereby to assess changes in physiology enabling their survival. Growth rate, biochemical composition, and photosynthetic activity of the diatom *Thalassiosira weissflogii*

Uploaded on May 19, 2016

September 1, 2015 (1) [Journal article](#) [Open Access](#)[View](#)**Size structures sensory hierarchy in ocean life**

Martens, Erik A.; Wadhwa, Navin; Jacobsen, Nils S.; Lindemann, Christian; Andersen, Ken H.; Wassel, André;

Survival in aquatic environments requires organisms to have effective means of collecting information from their surroundings through various sensing strategies. In this study, we explore how sensing mode and range depend on body size. We find a hierarchy of sensing modes determined by body size. We

Uploaded on April 12, 2016

July 2, 2015 (1) [Journal article](#) [Open Access](#)[View](#)**Modelling the future biogeography of North Atlantic zooplankton communities in response to climate change**

Villalino, Eneato; Chust, Guillem; Licandro, Patricia; Butenschön, Mommie; Ibañeta, Leire; Larrañaga, Aitor; Irigoien, Xabier;

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**EURO-BASIN, North Atlantic Marine Ecosystem Research**

**EC FP7 EURO-BASIN** is designed to advance our understanding of the variability, potential impacts, and feedbacks of global change and anthropogenic forcing on the structure, function and dynamics of the North Atlantic and associated shelf sea ecosystems as well as the key species influencing carbon sequestrating and ecosystem functioning.

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- On **1052** Facebook pages
- Mentioned in **116** Google+ posts
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Open Access Explained <http://phdcomics.com/tv/?v=L5rVH1KGBCY> by PhD Comics

# Open Access Routes & which to chose ...





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(check [www.sherpa.ac.uk/romeo](http://www.sherpa.ac.uk/romeo))

Time embargoed  
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& publisher owns final copy  
(discipline specific)

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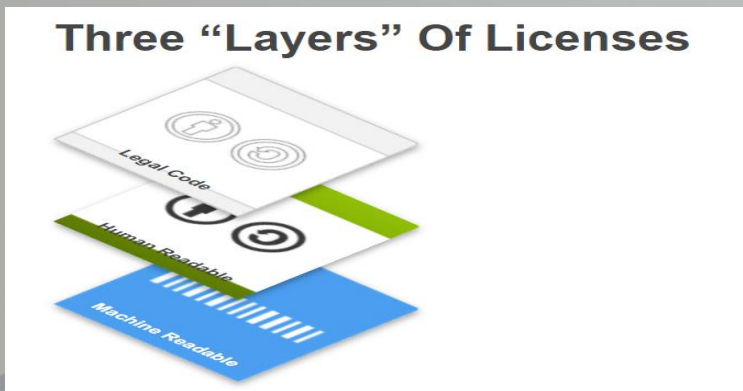
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# Lifetime of the publication:

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(Author Owned first draft)

## *Post-print*

(Accepted Version,  
After peer-review &  
corrections)



**Publisher  
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This is a Post Print of the article published online 16<sup>th</sup> April 2014 and printed January 2015 in Chemosphere, 119, S81–S88. The publishers' version is available at the permanent link: [dx.doi.org/10.1016/j.chemosphere.2014.03.029](https://doi.org/10.1016/j.chemosphere.2014.03.029)

## Comparison of UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> with UVC/H<sub>2</sub>O<sub>2</sub> in terms of efficiency and cost for the removal of micropollutants from groundwater

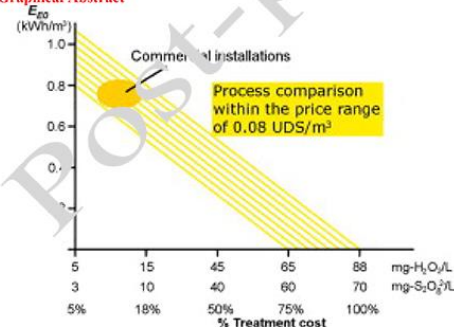
Maria G. Antoniou<sup>a,b,\*</sup> and Henrik R. Andersen<sup>a</sup>

<sup>a</sup>Technical University of Denmark (DTU), Department of Environmental Engineering, Møltovej, Building 113, 2800 Kgs. Lyngby, Denmark; <sup>b</sup>Cyprus University of Technology, Department of Environmental Science and Technology, Corner of Athlona and Anararissanis 57, PO Box: 50329, 3603 Lemesos, Cyprus. \*Corresponding author e-mail: maria.antonio@dtu.ac.uk

### Highlights

- Cost comparison of UVC/HP and UVC/PS for groundwater treatment.
- UVC/PS performed better for atrazine removal in Milli-Q water.
- UVC/HP had a better overall performance for the removal of the mixture of contaminants.
- Results from the collimated beam apparatus were comparable to the flow-through system.
- UVC/PS is economically feasible for special matrices where selective oxidation is required.

### Graphical Abstract



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## Comparison of UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> with UVC/H<sub>2</sub>O<sub>2</sub> in terms of efficiency and cost for the removal of micropollutants from groundwater

Maria G. Antoniou<sup>a,b,\*</sup>, Henrik R. Andersen<sup>a</sup>

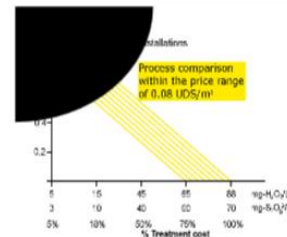
<sup>a</sup>Technical University of Denmark (DTU), Department of Environmental Engineering, Møltovej, Building 113, 2800 Kgs. Lyngby, Denmark

<sup>b</sup>Cyprus University of Technology, Department of Environmental Science and Technology, Corner of Athlona and Anararissanis 57, PO Box: 50329, 3603 Lemesos, Cyprus

### HIGHLIGHTS

- Cost comparison of UVC/HP and UVC/PS for groundwater treatment.
- UVC/PS performed better for atrazine removal in Milli-Q water.
- UVC/HP had a better overall performance for the removal of the mixture of contaminants.
- Results from the collimated beam apparatus were comparable to the flow-through system.
- UVC/PS is economically feasible for special matrices where selective oxidation is required.

### GRAPHICAL ABSTRACT



### ARTICLE INFO

**Article history:**  
Received 31 January 2014  
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Handling editor: J. de Boer

**Keywords:**  
Collimated beam  
Hydrogen peroxide  
Persulfate  
UVC  
Flow through reactor  
Emerging contaminants

### ABSTRACT

This study compared the UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> system with the more commonly used AOP in water industry, UVC/H<sub>2</sub>O<sub>2</sub>, and examined whether the first one can be an economically feasible alternative technology. Atrazine and 4 volatile compounds (methyl tert-butyl ether, cis-dichloroethene, 1,4-dioxane and 1,1,1-trichloroethane) were chosen as model contaminants because they exhibit different susceptibility to UVC photolysis and AOPs. A collimated beam apparatus was utilized for the majority of the experiments (controlled environment, without mass transfer phenomena), while selected experiments were performed in a flow-through reactor to simulate industrial applications. Initial experiments on the activation of oxidants with a LP lamp indicated that S<sub>2</sub>O<sub>8</sub><sup>2-</sup> is photolysed about 2.3 times faster than H<sub>2</sub>O<sub>2</sub>, and that the applied treatment times were not sufficient to utilize the majority of the oxidant. The effect of oxidants' concentrations were tested with atrazine alone and in the micropollutants' mixture and it was decided to use 11.8 mg L<sup>-1</sup> S<sub>2</sub>O<sub>8</sub><sup>2-</sup> and 14.9 mg L<sup>-1</sup> H<sub>2</sub>O<sub>2</sub> for further testing since is closer to industrial applications and to minimize the residual oxidant concentration. Changes of the matrix composition of the treated water were investigated with the addition of chloride, bicarbonate and humic acids at concentrations relevant to a well-water-sample, the results showed that the system least affected was UVC/H<sub>2</sub>O<sub>2</sub>. Only when bicarbonate was used, UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> performed better. Overall, testing these systems with the mixture of micropollutants gave better insights to their efficiency than atrazine alone and UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> is recommended for selective oxidation of challenging matrices.

# A single GO-TO source of info:



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**compare entries**

**use OpenDOAR through the API**

**OpenDOAR** directory of open access repositories  
[www.open\\_doar.org](http://www.open_doar.org)

“... the University of Nottingham's *OpenDOAR*, stands out as the leader among the directories identified ...”  
*Directories of Institutional Repositories: Research Results & Recommendations*  
Johns Hopkins University 2006

# Zenodo (OpenAIRE/CERN repository)

(All) Research.  
Shared.

— your one stop research shop!

All research outputs from across all fields of science are welcome! Zenodo accept any file format as well as both positive and negative results. However, we do promote peer-reviewed openly accessible research, and will curate your upload before putting it on the front-

Citeable.  
Discoverable.

— be found!



Community  
Collections

— create your own repository

Zenodo allows you to create your own collection and accept or reject all uploads to it. Creating a space for your next workshop or project have never been easier. Plus, everything is citeable and discoverable.

Safe

— more than just a drop box!

Your research output is stored safely for the future in same cloud infrastructure as research data from CERN's Large Hadron Collider using a CERN's battle-tested repository software **INVENIO** used by some of the world's largest repositories such as **INSPIRE HEP** and **CERN Document Server**.

Reporting

— tell your funding agency!

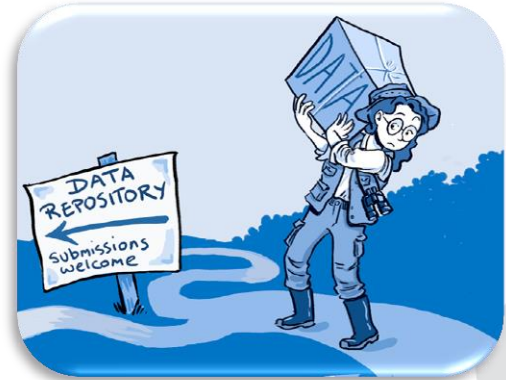
Zenodo is integrated into reporting lines for research funded by the European Commission via **OpenAIRE**. Just upload your research on Zenodo and we will take care of the reporting for you. We plan to extend with further funding agencies in the future so stay tuned!

Flexible  
Licensing

— not everything is under Creative Commons

Zenodo encourage you to share your research as openly as possible to maximize use and re-use of your research results. However, we also acknowledge that one size does not fit all, and therefore allow for uploading under a multitude of different licenses and access levels\*.

\* You are responsible for respecting applicable copyright and license conditions for the files you upload.



[www.zenodo.org](http://www.zenodo.org)

# A “simple” recipe of RIA & IA in Societal Challenge 5:

## *Objective:*

**100% Open Access to publications, free\*,  
without copyright infringements  
(and author choice of journal!!)**

# Open Access Mandate in Horizon 2020

“Ensure open access... as soon as possible and at the latest on publication, **deposit** a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication **in a repository** for scientific publications”



*Horizon 2020 Grant Agreement*



# What does that mean?

- **immediate deposit** of peer reviewed scientific publications
  - i.e. journal articles
- deposit **in a repository** (machine readable form and even Gold OA)
  - respect embargo periods (6 months STEM, 12 months SSH)
- if possible by **using an open license**
  - e.g. Creative Commons Attribution (CC-BY)

# A “simple” recipe of RIA & IA in Societal Challenge 5:

- Favour **GREEN** Open Access Route, (plan for some **GOLD** costs);
- Partners deposit *post-prints* in own repositories & OpenAIRE harvests (or Coord. contracts a consortium partner to collect & deposit in project-specific collection in Zenodo.org );
- Allow partners to divert resources to **GOLD** Open Access (even if not foreseen in DoA, e.g. GA Article 4.2) in special cases;
- Use **CTA Addendum** if chosen journals are too restrictive on post-print archiving.

# Open Access Scoreboard

Project Acronym (start-end)	Topic	# Partners	# Literature Outputs	# Data Outputs	Open Access
EPOCA (2008-2012)	Ocean acidification	32	472	350	<b>51%</b>
HYPOX (2009-2012)	Oxygen depletion (hypoxia)	20	57	411	<b>58%</b>
HERMIONE (2009-2012)	Biodiversity hotspots	41	393	482	<b>69%</b>
CARBOCHANGE (2011-2015)	Carbon exchange with atmosphere	30	261	430	<b>84%</b>
EURO-BASIN (2010-2014)	Atlantic renewable resources	24	140	179	<b>98%</b>

Source: S.Pesant, H2020 OpenAIRE-CONNECT

# Open Access Copyright & Legal Issues Resources:

- Research Librarian (if in a research institution)
- Is there an OA journal for me [www.doaj.org](http://www.doaj.org)
- SHERPA-ROMEO for specific Journal permissions  
<http://www.sherpa.ac.uk/romeo/>
- Which repository for my project [www.openoar.org](http://www.openoar.org)
- OpenAIRE Copyright HelpDesk  
<https://www.openaire.eu/copyright-issues>
- EC IPR HelpDesk <https://www.iprhelphdesk.eu/>



# What makes a good RDM Plan?



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Twitter: @mkdDCC

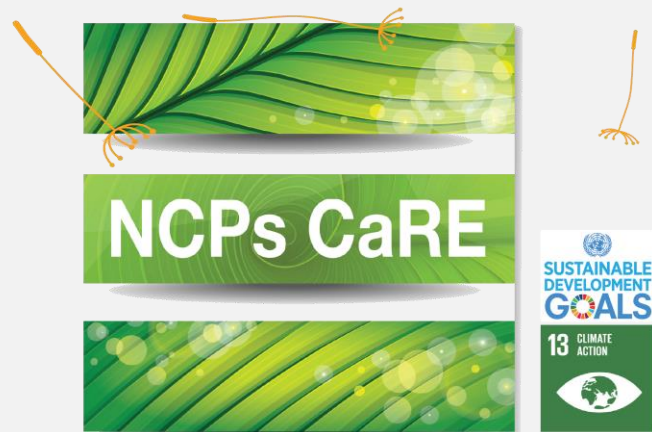
3 May 2018, 11 CEST

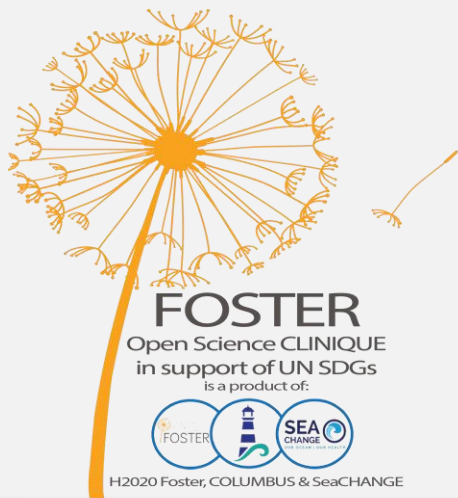
Register <https://www.fosteropenscience.eu/node/2153>

The talk is the last in the series  
Open Science CLINIQUE for NCPs CaRE Network



H2020 Foster, COLUMBUS & SeaCHANGE





**Open Science CLINIQUE for NCP CaRE Network, 26 Apr 2018**

**To request a CLINIQUE contact**  
**[ivgr@aqua.dtu.dk](mailto:ivgr@aqua.dtu.dk)**