

CRS Newsletter November 4, 2021

Dear Members and Fellows of the CRS, dear subscribers of the CRS mailing list

With this newsletter we provide information and activities related to reproducibility and scientific integrity. You will also find information about activities conducted by the CRS.

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- 1. ReproducibiliTea on Thursday November 11**
 - 2. ZüKoSt: Seminar on Applied Statistics on Friday November 12**
 - 3. Open Data: Be FAIR and CARE; synergies, trade offs, and perspectives in biodiversity data for science, policy, and action,** a session for concerned global citizens at the World Biodiversity Forum 2022, invitation to contribute, deadline November 21.
 - 4. November 25 PostDoc meetup** on Good Research Practice
 - 5. Publication Alert:** Reporting and misreporting of sex differences in the biological sciences
 - 6. Publication Alert:** Why we habitually engage in null-hypothesis significance testing: A qualitative study
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1. The next ReproducibiliTea will take place on **November 11 2021 16:00 to 16:45 with Leonhard Held, director of CRS, on “[An open science pathway for drug marketing authorization—Registered drug approval](#)”**. See details [here](#).
 2. The next ETH/UZH ZüKoSt Seminar on Applied Statistics will take place on **November 12 2021, 15:15 to 16:15 with Leonhard Held, director of CRS, on “The statistical analysis of replication success: A case for reverse-Bayes”**. See details here: <https://math.ethz.ch/sfs/news-and-events/seminar-applied-statistics.html>
 3. **Open Data session:** “Be FAIR and CARE; synergies, trade offs, and perspectives in biodiversity data for science, policy, and action,” a session for concerned global citizens at the World Biodiversity Forum 2022 in Davos (Switzerland) June 26 - July 1 2022 (for more info on the WBF 2022 see <https://www.worldbiodiversityforum.org/en/welcome-to-wbf-2022>). The session will consist of submitted talks and be followed by invited talks and a podium discussion. The full abstract for the session is at the bottom of this newsletter. Contributions to the session are invited, presenting case studies, successes, failures, new ideas and demonstrations from the perspectives of all players in applying FAIR and CARE principles in biodiversity knowledge and data management. The contributions can be in person or virtual in the form of oral presentations, posters or e-posters.
Please submit your application at <https://www.worldbiodiversityforum.org/en/abstracts> by the 21st of November 2021. If you have any further questions, please contact Rainer.Krug@uzh.ch
 4. **November 25 PostDoc meetup** with Eva Furrer on Good Research Practice <https://www.grc.uzh.ch/en/events/PostdocMeetUp.html>
 5. **Publication Alert:** Reporting and misreporting of sex differences in the biological sciences <https://elifesciences.org/articles/70817>

6. **Publication Alert:** Why we habitually engage in null-hypothesis significance testing: A qualitative study <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0258330>

Abstract of “Be FAIR and CARE; synergies, trade offs, and perspectives in biodiversity data for science, policy, and action”

Reliable and accessible data is essential for understanding biodiversity, its status, trends and pressures, and thus responding with informed policies and action.

The FAIR data management principles to make data Findable, Accessible, Interoperable and Re-usable, are increasingly referenced and required by funding agencies and institutions; however, implementation remains deficient at many levels. Even when data management claims to be ‘FAIR’, datasets often fall far short of the principles. But FAIR principles alone provide only a partial solution to issues of data ownership and control, most evident in the case of indigenous and local knowledge (ILK) and its relationship with the spirit of open, shared data embodied in the FAIR principles. The recently-developed CARE data governance principles aim to address this imbalance between sharing and control.

Researchers and policy makers thus face the dual challenge of properly applying the FAIR principles, and of bringing CARE principles into the equation. The inclusion of CARE also represents an opportunity to institutionalize and acknowledge the role of ILK in biodiversity research and inspiration of action. The implementation of data management practices properly following both FAIR and CARE principles, will build and increase trust in biodiversity research and action by involving indigenous peoples and local communities (IPLCs) as well as the whole of civil society.

During this session, we will describe the state of the art in data management with regard to FAIR and CARE and, more broadly, Open Science. We will discuss how these can be incorporated at all levels from data collection and analysis to policy and action, and how data which follows these principles, can inspire action for biodiversity.

Additionally, the session will aim to generate strategies and proposals for using FAIR and CARE principles to support achievement of the target in the post-2020 Global Biodiversity Framework (GBF) dealing with availability and application of biodiversity knowledge (Target 20 in the GBF First Draft).

We invite contributions for an open session, followed by a session with invited speakers, ranging from experts on the UNESCO Recommendation on Open Science through organisations dealing with biodiversity data to experts on CARE and a panel discussion.