

# Reusing data: two new papers

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My research is about the interaction of (machine) representation and the impact on the success of data analysis (machine learning, chemometrics, AI, etc). See the posts [about molecular chemometrics](#). This got me into [FAIR](#): making data interoperable and being able to (really) reuse data is the starting point of doing research.

So, when I get the chance to see something where I worked on to make more FAIR actually being used, I love to push the boundaries of FAIR a bit extra. The study of representation of molecules and molecular systems is not quite a popular science, but I find it important. Two new papers got recently published to which I contributed from this perspective.

The first paper by Anna Niarakis *et al.* is about using the SARS-CoV-2/COVID-19 knowledge base we have collected of the past 4 years (doi:[10.3389/fimmu.2023.1282859](#)). For me, this started with a WikiPathways with early knowledge about the virus proteins. I think in this and earlier papers, we improved our open science and bioinformatics and are actually more ready for a next pandemic, which inevitably will come.

The second paper by Alfaro Serrano *et al.* is about how access to data remains key to many things, and this, obviously, includes the Sustainable Development Goals (SDGs) (doi:[10.1039/D3SU00148B](#)). When it comes down to the face/off of FAIR versus Open, I think Open has more impact, hands-down.

About the latter, I recently wrote up ten simple actions you can take to make your nanosafety research output more FAIR (doi:[10.5281/zenodo.10533126](#)).