

Júlia Schütz Veiga and Harriet Harden-Davies

**Building bridges: from debate to an equitable and effective stewardship of marine genetic resources in the BBNJ negotiations?**

The recent stalling of the UN negotiations for the High Seas Treaty highlighted the multifaceted role of science in international negotiations and the critical need to diversify voices in reaching an equitable outcome. This presentation will explore – in the context of the negotiations, (i) the role of science diplomacy; (ii) challenges and opportunities for advancing equity in the global ocean commons; and (iii) ideas to support the conclusion of negotiations.

Arianna Broggiato

**Marine genetic resources in the context of the BBNJ negotiations: the EU approach towards collaborative science within the open science paradigm**

The presentation will illustrate the core issues related to marine genetic resources, including questions on sharing of benefits, in the context of the BBNJ negotiations. It will show what are the main challenges in terms of enhancing collaborative scientific production, and dealing with samples and data. The EU approach to ensure the sharing of benefits as well as the open science policy will be illustrated.

Kjersti Gabrielsen

**Collecting and distributing marine genetic resources (MGR) for research and innovation**

The presentation will exemplify how collecting samples of marine biodiversity is conducted and quality assured for the purpose of distributing MGR samples and data to academia and industry. Traceability and best practices within the scientific community will be focused on together with existing legal regulations.

Pete Hollingsworth

**Biodiversity genomics – technological innovation changing our understanding of the natural world**

Massive scale sequencing of biodiversity is now a reality, including projects building global DNA databases for species identification, sequencing the entire genomes of diverse species assemblages, and characterising biodiversity from traces of DNA in

the environment. I will introduce this landscape of opportunity and the associated challenges for equitable governance

Katie Kendig

### **From canola to crottle: Sharing knowledge and the categories in which it comes**

Categories classify the phenomena that are the subject matter of scientific knowledge. Using case studies in U.S. food justice and Scottish marine biodiversity, I show how situated categorizations shape the epistemic and normative landscape by organizing explanatory goals, specifying standards for research and production, and connecting scientific activities to social goals.

Sabina Leonelli

### **Whither transnational knowledge? Moving research data across communities and borders**

This paper considers lessons learnt from data sharing initiatives in crop science, where efforts to mobilize and link data collected across locations/borders clash with concerns around the silencing and/or exploitation of indigenous participants as well as strategies to negotiate intellectual property claims on crop knowledge. This is a field where the long-standing inequity among participants – and lack of inclusion of low-resourced researchers and local experts - has damaging effects on how data are used to understand plant biology and plan agricultural interventions. I ask whether similar concerns can be raised in relation to marine biology, and what are the main points of divergence.

Elisa Morgera

### **Supporting ocean knowledge co-production for transformative change in the BBNJ Agreement**

This presentation will explore the need for the BBNJ agreement to clarify the content of the international duty to cooperate in relation to the ocean genome, and its implications for the other elements of the package, from the combined perspectives of international law on the ocean, biodiversity, climate change and human rights.