

## Virtual Program – Zoom Webinar May 24th

09:00-10:15 **Keynote lecture – Dr Jo Handelsman “Functional Metagenomics to Explore Antibiotic Resistance”**

Commented [AKO1]: 40-50 minute talk plus questions

10:15-10:45 *Break*

10:45-12:15 **Session 1: Sequence-Facilitated Functional Metagenomics**

(Session host: Alexander Wentzel)

**L1. Intikhab Alam, Computational Bioscience Research Center:** “Biosphere One Billion Genes catalog and Metagenomic Assembled Genomes.”

**L2. Camilla L. Nesbø, University of Toronto:** “Bathyarchaeota in Anaerobic Digesters treating Pulp Mill Wastewaters”

**P1. Anupama A. Sharan, University of Toronto:** “Developing an in-silico pipeline for the mining of anaerobic o-demethylase enzyme systems from lignocellulose-rich metagenomes”

12:15-13:15 *Break*

13:15-15:00 **Session 2: Advances in Functional Screening – Sponsored by MicrobiomeSupport**

(Session host: Gabrielle Potocki-Veronese)

**L3. Adilya Dagkesamanskaya, Toulouse Biotechnology Institute:** “New droplet-microfluidics-based approaches for functional metagenomics and culturomics”

**L4. Justin J. Donato, University of St. Thomas:** “Using Whole Genome Sequence Data to Improve the Efficiency of Functional Metagenomic Selection”

**P2. Giang-Son Nguyen, SINTEF Industry:** “(Meta)genome mining for novel enzyme discovery”

**P3. Adrian Van Dyk, University of Waterloo:** “Glyphosate Resistant Genes Found by Selecting a Soil Metagenomic Library in *Escherichia coli* for Growth on Glyphosate As Sole Source of Phosphorus”

15:00-15:30 *Break*

15:30-18:00 **Session 3: Natural Products and Enzymes**

(Session host: George DiCenzo)

**L5. Rachel Keown, University of Delaware:** “Novel Viral DNA polymerases from metagenomes exhibit diverse biochemical phenotypes”

**L6. Alexander Wentzel, SINTEF Industry:** “New Natural Products From Marine Actinobacteria and Microbiomes”

**P4. Zjardyn Liera-Hood, University of Waterloo:** “Uncovering the microbial capacity for polyethylene and polystyrene biodegradation”

**P5. Sabhjeet Kaur, Queen’s University:** “Finding plastic degrading microbes and enzymes from the gut of beetle larvae”

**P6. Eugenia Dadzie, University of Waterloo:** "Enzymes and Microbes: Sustainable Plastic Degradation"

**P7. Aranksha Thakor, University of Waterloo:** "Functional Metagenomics-Enabled Engineering of *Pseudomonas alloputida* for the Production of Poly-hydroxyalkanoate (PHA) Copolymers using Lactose"

End of Virtual Content