



IWE G

International Workshop on
Environmental Genomics



Centre for Environmental Genomics Applications



An IOGP programme



2023 INTERNATIONAL WORKSHOP ON ENVIRONMENTAL GENOMICS:

New Horizons for Environmental Genomics Applications

St. John's Convention Centre, 50 New Gower St – 'Bannerman Ballroom'
St John's, Newfoundland and Labrador, Canada
June 21st and 22nd, 2023

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AGENDA

DAY I - WEDNESDAY, JUNE 21st, 2023

08:30 – 09:00	Registration
09:00 – 09:30	Welcome & Introductions
09:30 – 10:15	Kristian Meissner (Finnish Environment Institute) , Keynote Speaker <i>Why do we need international standards for molecular methods?</i>
10:15-10:45	Coffee Break
10:45 – 12:15	SESSION I – Standards and environmental management
	Katy Klymus (Columbia Environmental Research Center) <i>Developing lab standard procedures and guidelines to improve uptake of eDNA methods by resource managers: An overview of two national-scale projects</i>
	Cynthia McKenzie (Fisheries and Oceans Canada) <i>Sampling Strategies to Enhance the Use of Molecular Tools for Early Detection of Aquatic Invasive Species in High Risk Harbours</i>
	Michael Marnane (IOGP Environmental Genomics Joint Industry Program Chevron Technical Centre) <i>Improving uptake and confidence in the application of environmental genomics within the oil and gas industry</i>
12:15 – 13:00	Lunch Break
13:00 – 15:00	BREAKOUT SESSION
	<i>Technology Readiness Assessment for new eDNA Tools</i>
15:00 – 15:30	Coffee Break
15:30 – 17:00	SESSION 2 – Metabarcoding and community analysis
	Richard Lance (Environmental Laboratory, US Army Engineer Research and Development Center, US Army Corps of Engineers) <i>Treading New Ground: Exploring Soil eDNA Signal and Its Potential Utilization</i>
	Thomas Merzi (TotalEnergies) <i>Trophic Networks Assessment from Metabarcoding Data</i>
	Samantha Crowley (Dalhousie University) <i>Assessing uncertainty in eDNA metabarcoding data using simulations</i>
17:00-17:30	Day I Wrap-up

DAY 2 - THURSDAY, JUNE 22nd, 2023

09:00 – 10:30	SESSION 3 – New horizons: Genomics
	Samantha Beal (Dalhousie University) <i>SINEs for the times: short interspersed nuclear elements increase ability to detect rare species via eDNA</i>
	Ion Abad-Recio (AZTI) <i>Beyond Amplicon Sequencing</i>
	Muneesh Kaushal (CEGA) <i>NAMERS: a purpose-built reference DNA sequence database to support actionable eDNA metabarcoding results</i>
10:30 – 11:00	Coffee Break
11:00 – 13:00	SESSION 4 – New horizons: Technology
	Hussein Daoud (Illumina) <i>Illumina Sequencing Technology update for Environmental Genomics</i>
	Robert Beiko (Dalhousie University / Dartmouth Ocean Technologies, Inc.) <i>Deploying the Dartmouth Ocean Technologies Inc. automated eDNA sampler in the marine environment</i>
	Timothy Shanahan (McLane Research Labs) <i>Presenting the RoCSI, a new high sample count eDNA sampler</i>
	Ethan Edson (Ocean Diagnostics) <i>New enabling technologies for the in situ sampling and collection of eDNA in the coastal zone</i>
13:00 – 14:00	Lunch Break
14:00 – 15:30	Panel Discussion
15:30 – 16:00	Closing Remarks
18:30 – 23:00	Special Event at THE ROOMS <i>Cocktail Reception</i>

Thank you for Attending IWEG 2023

Please join us for a **Cocktail Reception** at **The Rooms**

Reception: 6:30 PM – 11:00 PM

Event Location:

ST. JOHN'S CONVENTION CENTRE
50 News Gower Street
St. John's, NL Canada



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Reception Location:

THE ROOMS
9 Bonaventure Ave
St. John's, NL Canada



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