Exploratory Workshop on Metal Toxicity

BI 211 Biological Sciences, University of Calgary Discussion Leaders: Wing-Kee Lee & Elmar J. Prenner

July 25, 2022

Scientific presentations I

09:00	Wing-Kee Lee & Elmar J. Prenner Introductory remarks
09:15	Frank Thévenod (Witten/Herdecke University) Renal protein endocytosis and transition metal nephrotoxicity: A focus on cadmium
10:00	Matt Vijayan (University of Calgary) Zebrafish as a model to study metals impact on brain function and behaviour
10:45	Coffee break
11:15	Ray Turner (University of Calgary) Metal/metalloid interaction with bacteria; Bioconversion to nanomaterial
12:00	Lunch at Last Defence Lounge (Main campus, MacEwan Student Center)
13:30	Kevin Sule (University of Calgary) Manganese rigidifies anionic membranes while exhibiting antagonistic affects with calcium and magnesium
14:15	Coffee break
14:45	Wing-Kee Lee (Bielefeld University) From death to immortality: Role of sphingolipids in metal toxicity and carcinogenesis
15:30	Elmar J. Prenner (University of Calgary) Metal induced changes of the lateral membrane organization of biologically relevant phosphoinositides
16:15	End of talks

approx. 18:00 Speakers' dinner at **SALTLIK Steakhouse** (Downtown, Stephen Ave)

July 26, 2022

Scientific presentations II

- 09:00 Jürgen Gailer (University of Calgary) The bioinorganic chemistry of toxic metal(loid) species at the bloodstreamorgan interface
- 09:45 Wing-Kee Lee & Elmar J. Prenner Concluding remarks

Round table

- 09:50 Round table discussions (with coffee)
- 12:20 Summary and end
- 12:30 Lab tours and lunch at **Nick's** (Crowchild Trail NW)

We acknowledge our generous sponsors of this workshop:



