

## **Dr. Patricia Dörr de Quadros Biography**

Dr. Quadros has been a postdoctoral fellow at the University of Toronto Scarborough since January/2017 when she was awarded a MITACS Globalink Fellowship in partnership with Vale and CNPq/Brazil. She has expertise in soil science, biochemistry, microbial ecology, molecular biology, high throughput sequencing, and bioinformatics. She has been working on the selection, characterization, and validation (lab and greenhouse trials) of plant bacterial endophytes that promote growth in agricultural species including oats, wheat, lettuce, basil, and bok-choy, both in soil and in aquaponics systems to be used in inoculant formulation for seeds coating.

From 2013-2016 she studied (Postdoctoral Research) the bioremediation of contaminated soils and the control of biodeterioration of fuels (diesel and biodiesel) at the Environmental and Agricultural Microbiology Department of the Federal University of Rio do Sul (UFRGS) in Brazil, where she also held the rank of Assistant Professor for 2 years, co-supervised 5 graduate students, and participated on the supervisory committees of 16 other graduate students.

Dr. Quadros undergraduate background is in Agronomy (UFRGS/Brazil) with Masters and Doctorate Degrees in Soil Science/Biochemistry and Microbiology. In her Masters, she worked on the isolation, characterization, and inoculation of *Azospirillum* strains to several corn varieties. During her doctorate, she focused on studying the microbial community structure of soils under different management systems (tillage, no-tillage, and crop rotation systems; the microbial community of post-coal-mined soils; and agricultural swamped soils – Everglades, FL/US). Between 2010 and 2012 she travelled several times to Angola/Africa to participate in the Future of the Earth Project, teaching soil microbiology and demonstrating field trials of rhizobial inoculation of soybean crops.