



## Rui Wang

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**To live or to die – H<sub>2</sub>S causes the both**

Known as a rotten egg gas, hydrogen sulfide (H<sub>2</sub>S) can cause human intoxication and death at high concentrations, which is a major life-threatening risk for oilers or city sewage workers. Catastrophically accumulated H<sub>2</sub>S gas was also responsible for the biggest life extinction on Earth that killed 95% of all life species on Earth, the end-Permian extinction. Research conducted by my team as well as others over last decades has revealed, however, the critical importance of H<sub>2</sub>S to the homeostatic regulation of human health. In this talk, I will highlight some most promising and intriguing discoveries in H<sub>2</sub>S toxicology and biology, including the toxicological profile of H<sub>2</sub>S, the roles of H<sub>2</sub>S in the regulation of blood pressure, ion channel functions, and mitochondrial bioenergetics. H<sub>2</sub>S is a silent killer whereas in the meantime we cannot live without it.

### Speaker Biography

Rui Wang has completed his MD in China and PhD in Canada. He was the Vice-President of Research of Lake Head University, Canada from 2004-2014. He has served Laurentian University as Vice-President Research since 2015. He has published 267 peer-reviewed papers on the studies of gasotransmitters, including hydrogen sulfide and carbon monoxide that have been cited over 20,100 times. He has also served on the expert panel for toxicological profile for hydrogen sulfide and carbonyl sulfide for US Department of Health and Human Services, Public Health Service, and Agency for Toxic Substances and Disease Registry in 2013.

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