Queen's University iGEM Team

Who We Are

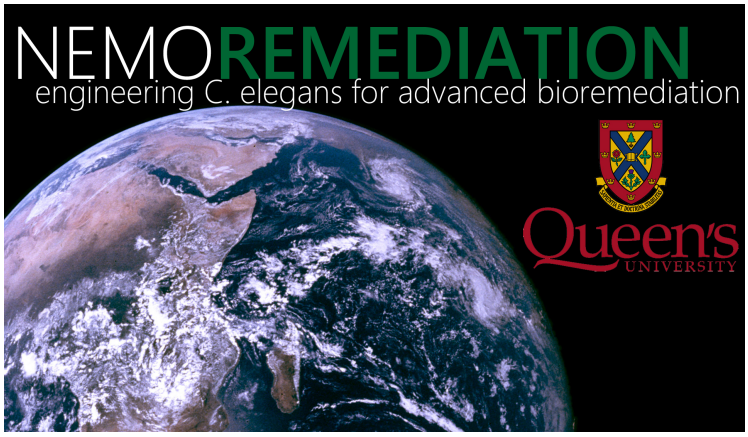
QGEM is a group of undergraduate students at Queen's University who design and implement genetic engineering projects. We do this within the framework of the iGEM competition, which challenges universities around the globe to develop practical solutions to everyday problems using the vast wealth of knowledge that molecular biology and biochemistry research has generated in recent decades.

The iGEM Competition

The International Genetically Engineered Machine competition was started in 2004 at MIT as a way to get students actively involved in the fledgling field of synthetic biology. More than a hundred teams from around the globe enter each year, making it one of the world's largest undergraduate conferences. The objective is to create a biological 'machine' through genetic engineering that can perform a real-world task. Projects are judged based on the new genetic parts they contribute, characterization of these parts, collaboration with other teams, and development of new standards, presentations, and capabilities.

2011 Summer Project

The direction of the 2011 project been set to build upon last year's foundational *C. elegans* project. The team will create a genetically engineered worm capable of moving towards pollutant particles, fluorescing once a certain concentration is present, and then begin to degrade the contaminants. We envision *C. elegans* being an effective organism to carry out bioremediation techniques.



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New England BioLabs

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