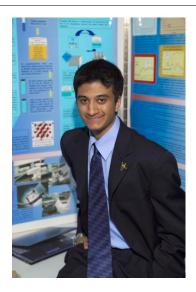




## CWSF 2005 - Vancouver, British Columbia



## Kartik Madiraju

## **Bio-Electromagnetism**

	Biotechnology
Category:	Intermediate
Region:	CDLS - Province du Québec
City:	Brossard, QC
School:	Centennial Regional High School
Abstract:	Electricity is produced in a dynamo based on the principles of electro-magnetism. If magnetic bacteria, which produce and use magnetite crystals as navigational tools, were made to spin using anti-flagellin antibody, they should produce a magnetic field. This project illustrates magnetic bacteria's ability to produce electricity in a generator.

Awards	Value
AECL Award for Excellence in Science - Intermediate	\$750
Sponsor: Atomic Energy of Canada Ltd.	
Natural Resources Canada (NRCan) Office of Energy Efficiency Award	\$500
Intermediate	
Sponsor: Natural Resources Canada (NRCan) Office of Energy Efficiency	
Renewable Energy Award - Intermediate	\$750
Sponsor: Ontario Power Generation	
Petro-Canada Peer Innovation Award - Intermediate - Québec	\$200
Sponsor: Petro-Canada	
The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Biotechnology & Pharmaceutical Sciences	\$700
Intermediate	
Sponsor: Rx&D Health Research Foundation	
Total	\$4 400



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