

Think Creative. Canada's contribution to

# Innovation

Glycemic index ■ Insulin ■ Pablum ■ Visudyne™ for macular degeneration ■ Plate tectonic theory ■ Radiation therapy ■ T-cell receptor ■ Wheat rust combatant ■ Light-activated drugs ■ Phosphorous contamination theory ■ Canola ■ Episodic and semantic memory function ■ World's first artificial cell ■ Permeable reactive barriers ■ Synthesis of RNA for medical research ■ CPAP device for sleep apnea ■ Compound 3TC for HIV/AIDS treatment ■ Functional Electrical Stimulation machine for paraplegics ■ PRS™ Probe for crop optimization ■ Plexiglass ■ Voice compression technology ■ Fibrillex™ for inflammatory disease ■ Heart pacemaker ■ Airline anti-icing processes ■ E.coli vaccine ■ Triple-Axis Neutron Spectroscope ■ Hyperdimensional geometric theory ■ Concrete fibre reinforcement technology ■ Levulan® Topical Photodynamic Therapy for skin conditions ■ Hip replacement surgery advances ■ Brain telementoring robotic surgery ■ Site-directed mutagenesis ■ DNA profiling ■ Chemical Vapor Deposition ■ Steam-Assisted Gravity Drainage for oil sands ■ Canola-based fuel ■ Stabiox industrial sludge treatment ■ High-Speed DNA Sequencer ■ V-chip for child-friendly TV ■ GIS crime tracking ■ High-performance concrete ■ Electron microscope ■ Lamivudine for chronic hepatitis B (HBV) infection ■ Mapping of SARS gene ■ Atrial Natriuretic Factor discovery and isolation ■ Cystic fibrosis screening test ■ Diamond coating process for tools ■ Paleoecological environmental assessment ■ Ultrasound microimaging ■ Intraoperative MR System ■ Thermal accelerometer ■ Liquid helium ■ Satellite remote sensing technology ■ Elliptic curve cryptography ■ Stream ecology ■ Micro-robot for advanced eye surgery ■ Automated gene synthesizer ■ Carcino-embryonic antigen (CEA) test ■ Radon ■ Classification system for congenital heart diseases ■ Map of the human brain