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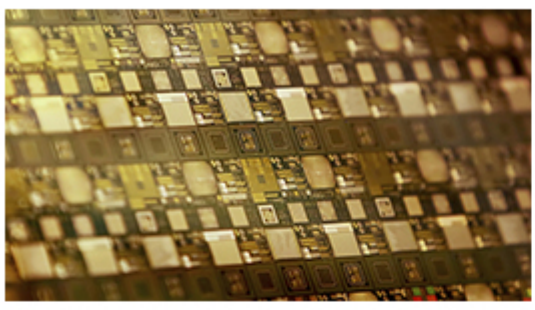
INNOVATION NOW

A MONTHLY SHOWCASE OF CANADIAN RESEARCH THAT IS TRANSFORMING LIVES

At work for the economy

THINNER AND MORE POWERFUL SEMICONDUCTORS

Spin-off claims a stake in booming semiconductor market



A **University of Alberta** company is helping to make Canada one of the foremost centres of semiconductor expertise in the world by developing more efficient devices. The global semiconductor market is set to jump from $12 million in 2012 to more than $1 billion by 2022, and the spin-off is well-positioned to become a key player.
Read more...

AN ALTERNATE TREATMENT FOR DEPRESSION

Engineers improve treatment system for depression and pain

Waterloo, Ont.-based NeuHorizon Medical, along with experts at the **University of Waterloo**, is preparing to market an improved therapy for health problems ranging from depression to epilepsy and pain.
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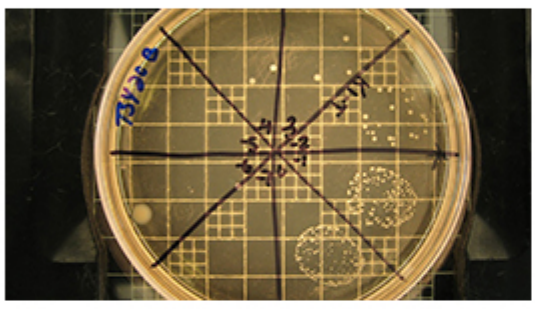
A MEETING OF LIGHT AND MOLECULES

Researchers are developing new therapies for the most expensive cancer to treat



Bladder cancer is the fifth most common cancer in Canada and the most expensive to treat, costing the healthcare system $400 million annually. The recent shortage in Canada of a vital drug for treating bladder cancer makes the work of a Toronto-based company with **Acadia University** researchers to develop new therapies more pertinent than ever.
Read more...

Spotlight on research

EDUCATING GENERATION Z

Researchers across Canada are developing the curricula and classrooms to prepare today's kindergartners for the world they will inherit

Few school-aged children in Canada can remember a time before they could carry most of human knowledge on a phone in their pocket. They prefer to communicate in images, have limited attention spans and are part of a global social network.

This cohort, the oldest of whom were born in 1995 and are now entering university, is known as Generation Z. We are only just getting to know Gen Z — the youngest are still toddlers — but the first impressions of marketers and researchers are that they are very different from their predecessors.

In a sense, Gen Z are a blend of the best of the generations before them: self-directed, entrepreneurial, outward looking and keen to change the world. The challenge for educators is figuring out how to adapt their classrooms to this new kind of student.
Read more...

CFI-funded research in the news

ARCTIC— Aboard the Amundsen: Ship's scientists probe the future of Western Arctic (ArcticNet, *The Globe and Mail*, September 11, 2014)
Link to story...

EXCELLENCE— Trois professeurs de l'UdeM entrent à la Société royale du Canada (Université de Montréal, *UdeMNouvelles*, le 10 septembre, 2014)
Lien vers l'article...

IMAGERIE— Alan Evans: les secrets du cerveau (Université McGill, *Métro Montréal*, le 7 septembre, 2014)
Lien vers l'article...

HEALTH— Research offers hints at muscle growth for elderly (University of Ottawa, *Ottawa Citizen*, September 7, 2014)
Link to story...

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