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Canada's potential to Lead in the "unique area" of Biological Sciences

***What we have: Intellectual Depth, Creative and celebrated people/experts**

***Opportunities to Develop: Knowledge Sector, and basis for retention of these experts.**

Canada feels the economic crisis

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Unemployment rate rises to 7.7% on 82,000 job losses

Financial Post
Published: Friday, March 13, 2009



The Financial Post

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U.S. vs Canada: One's economic slide is longer, the other's steeper

By Julian Beltrame, The Canadian Press

OTTAWA - The United States entered the recession first, but Canada's economy is falling faster now.

And if current trends continue, economists say, Prime Minister Stephen Harper and Finance Minister Jim Flaherty may rue their bold prognostications last week that Canada will exist the longest and strongest.

Today's employment and trade numbers paint a picture of an economy, if not literally in free-fall, certainly tumbling at an alarming rate with monthly job losses greater in proportion than those in the United States as great as any Canada has seen since the Great Depression.

Canada lost a whopping 129,000 jobs in January and followed that up with a surprisingly 82,600 contraction in February - a two-month total that when the different sizes in population are factored in would translate into a loss or more than two million jobs stateside.

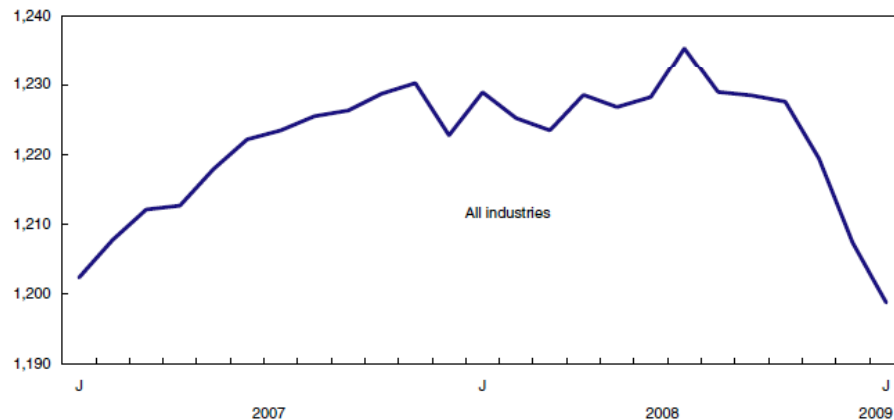
By comparison, the U.S. actually lost about 1.5 million jobs in the same period.

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Economic activity declines further

GDP in billions of chained (2002) dollars



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Human Resources and Skills Development Canada / Ressources humaines et Développement des compétences Canada

Progress on Canada's Economic Action Plan To Support Canadians Affected by the Economic Downturn

LONDON, ONTARIO, March 13, 2009 - Today, the Honourable Diane Finley, Minister of Human Resources and Skills Development and Minister responsible for Canada Mortgage and Housing Corporation, highlighted the progress being made by the Government of Canada to support Canadians through the Economic Action Plan.

#1 Science is Expensive:

***Scientific Collaboration- change in scientific culture, and reward to resource/effort ratio.**

***Sector Collaboration- Mixing Interests of Government, Industry, and Academic Centres.**

Increase Liaison among Sectors and Modify reward mechanisms to collaborating scientists

#2 Fostering Movement of Basic Life Sciences to Applied Technologies:

- *Policy Comparisons to our international partners.**
- *Create Receptors to interested Private Sectors based on emerging discoveries.**
- *Nurture appropriate Entrepreneurship: Time and conflicts of inquiry vs. applications/IP.**

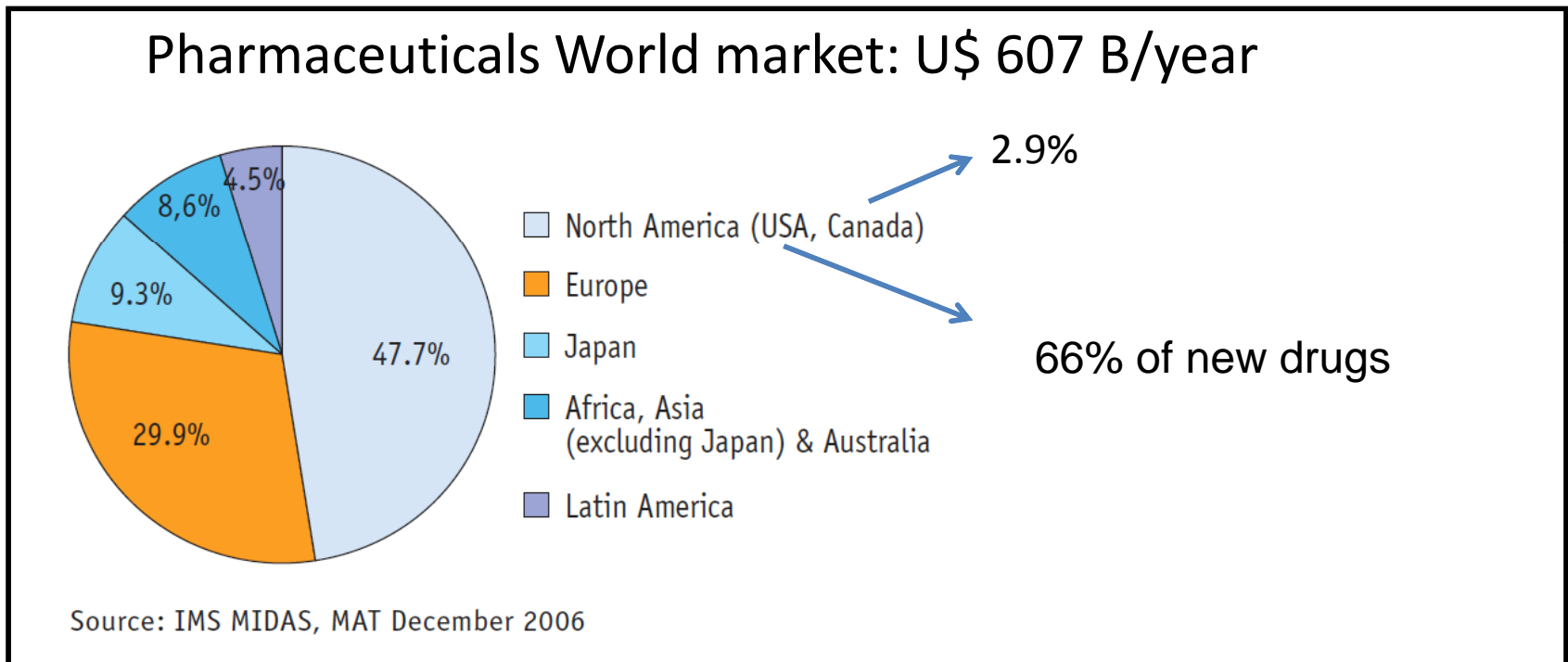
Provide expertise to assist and balance this process of transition for Canadian Scientists

#3 New Ways to Train for the future:

- *Canadian industry requirements**
- *Creation of Knowledge Sector industry**
- *Acknowledge the applied components of research and IP.**

New Universities, Programs, or Degrees in Life Science Applications based on our Strengths.

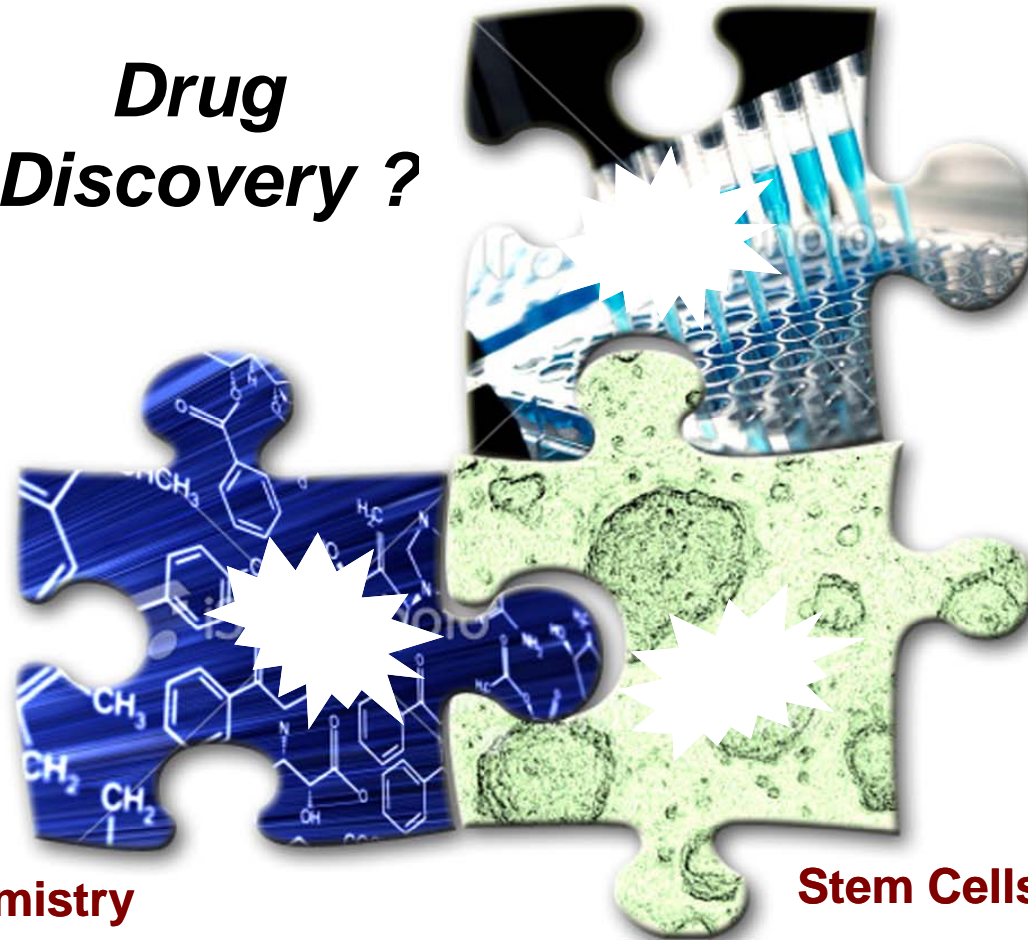
Canadian life sciences Industry



Canadian Drug Discovery platforms: Repurposing Industries in Canada

Automation & IT

***Drug
Discovery ?***



Chemistry

Stem Cells

Skin to Stem Cell (iPS)



Skin fibroblast

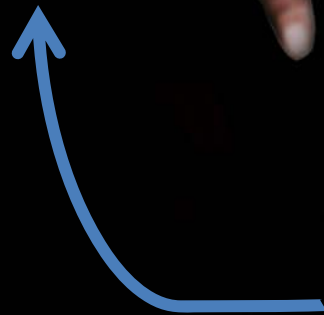
Sox 2
Oct 3/4
Nanog



Reprogramming

Unknown genetic
and epigenetic processes

Pluripotent stem cell

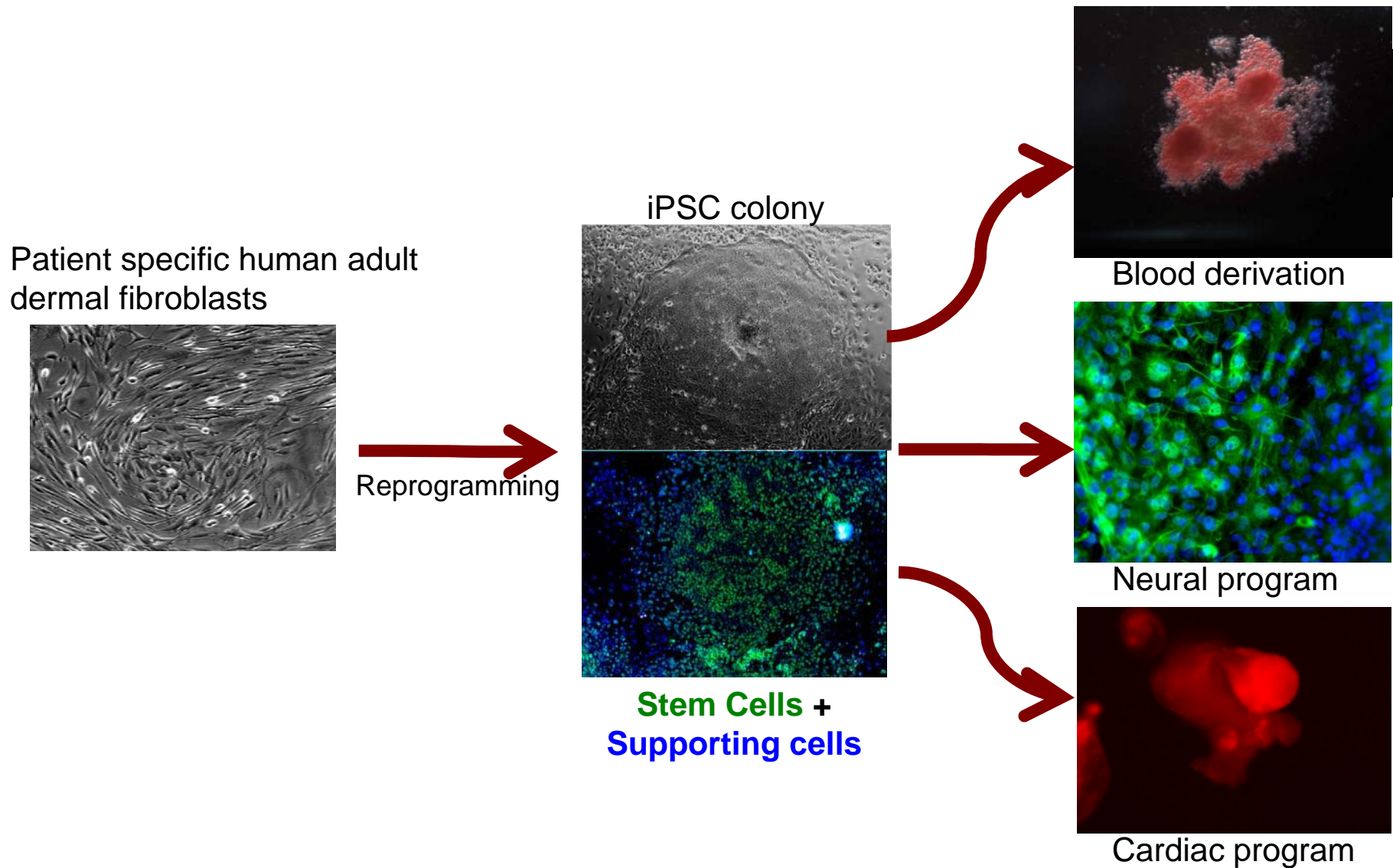


"Personalized" Regenerative
Medicine
(no rejection)

Disease Models
(chemical + genetic
screening)



McMaster Human iPSC lines: Future of Disease Modeling



The Stem Cell Promise

