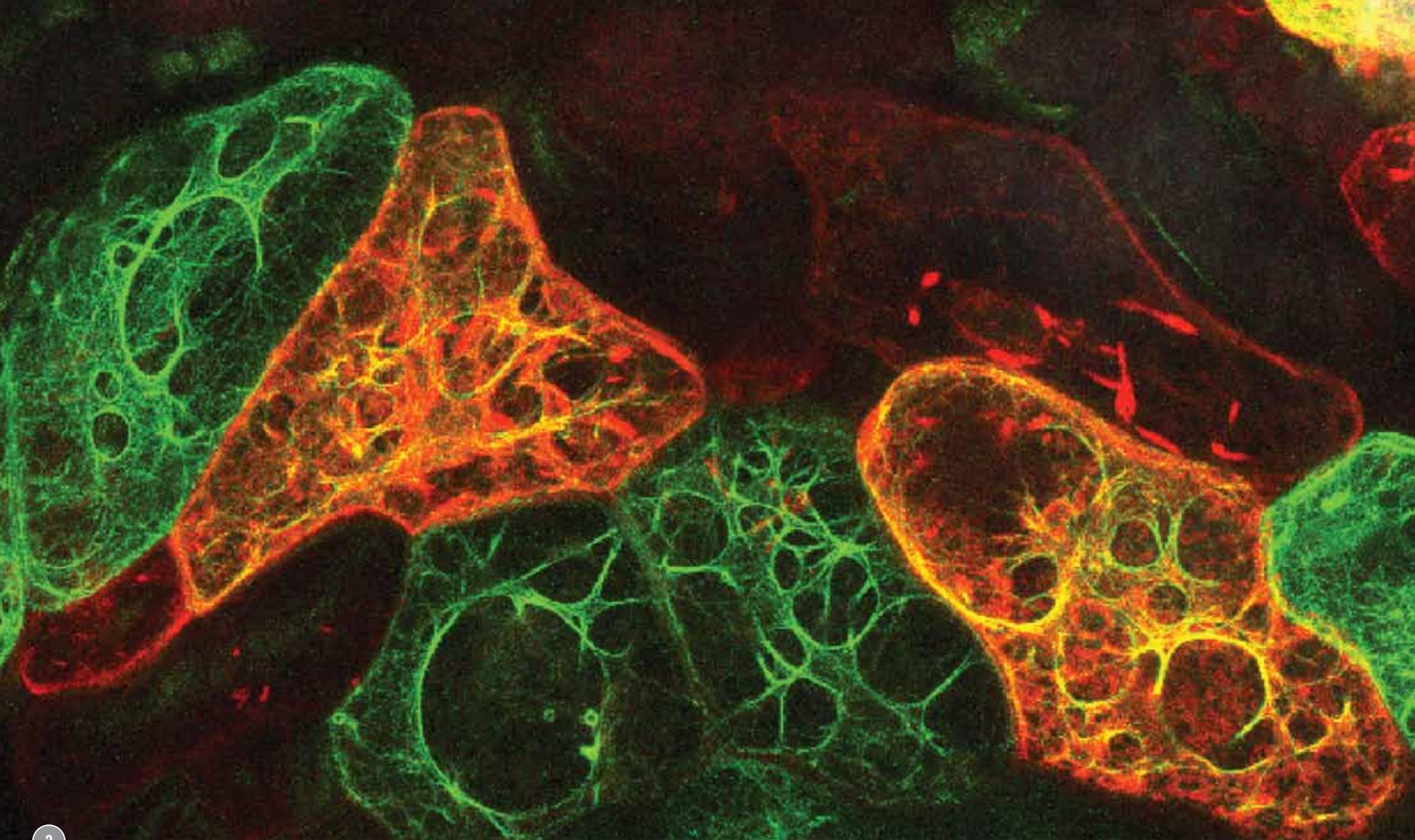




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WELCOME

The University of Guelph offers our research partners and stakeholders an unparalleled return on research investment. That return is the foundation for this report, the first of what will become an annual publication.

Our research revenue jumped to more than \$157 million in 2011-2012, thanks mainly to increased federal, provincial and industry funding, and to the dedication and skills of our research community.

Our researchers' commitment, leadership and expertise have been recognized across Canada and around the world. In fact, their work has made Guelph Canada's most inventive and efficient research university. The University has three times more invention disclosures per faculty member than the national average, while spending one-quarter as much on each disclosure. That's a great return on investment.

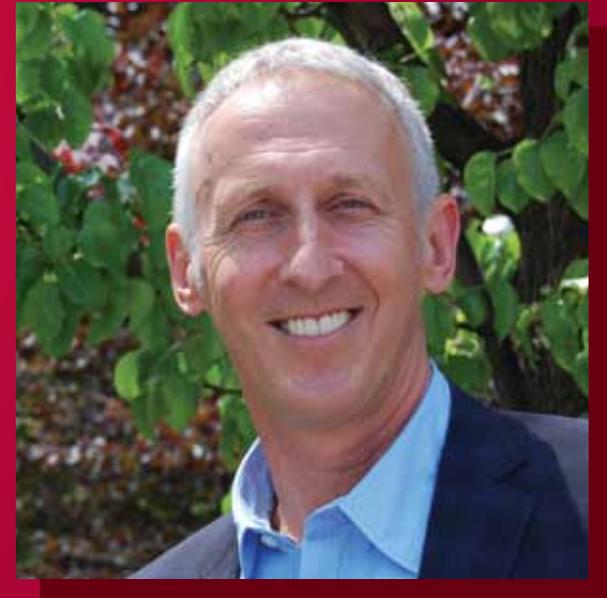
As a comprehensive university, Guelph promotes individual and collaborative research, endeavouring to engage with

a wide range of communities. The investment in research from all sources enhances student teaching and discovery by involving students in research design and execution, and through knowledge mobilization, transfer and training.

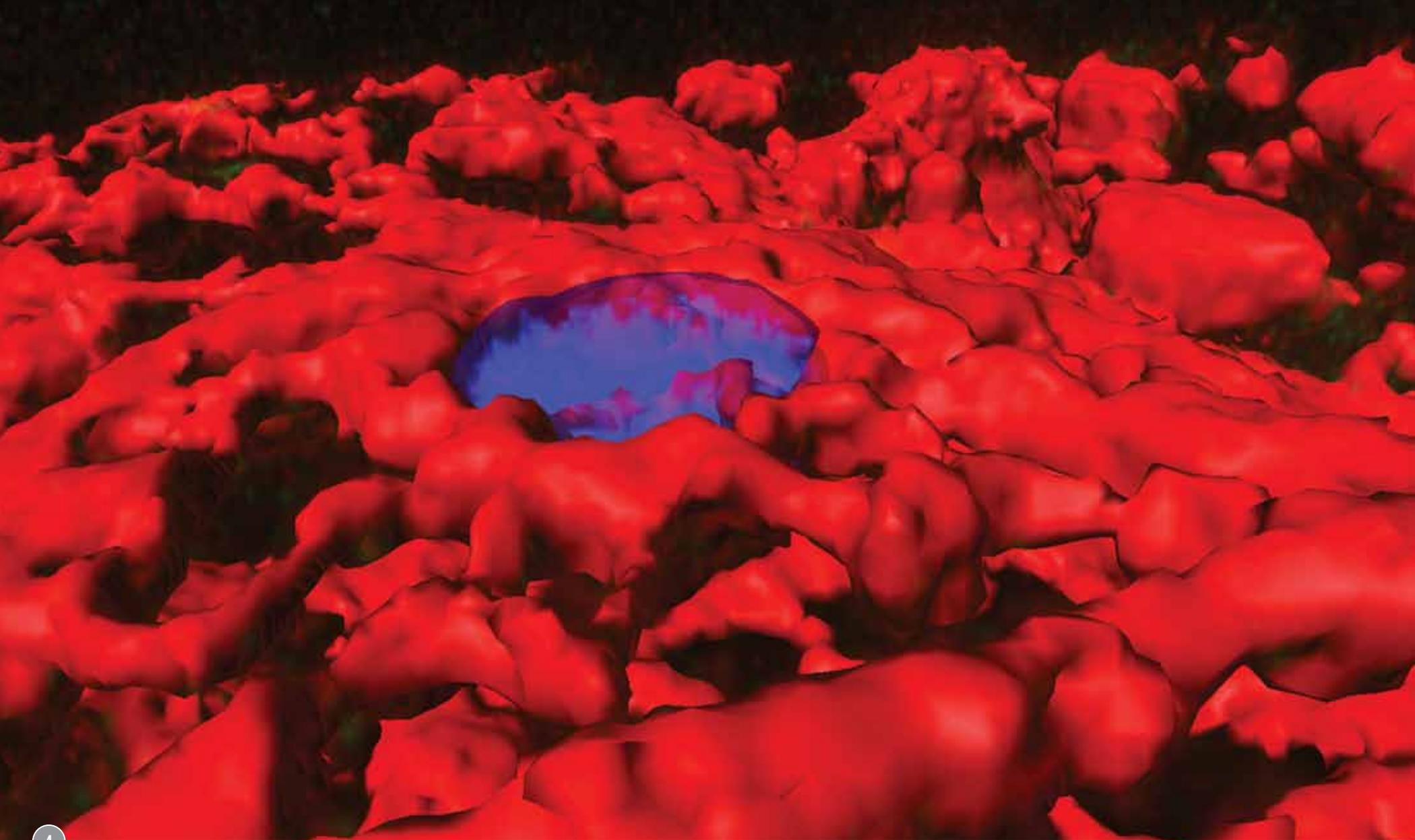
Creativity in discovery generates innovations that benefit society and the economy. Through fundamental and applied research, we are addressing challenges, seizing opportunities, changing lives and improving life.

I've seen first-hand evidence that Guelph researchers are dedicated to cultivating the essentials for quality of life through basic and applied research. Our goal is to use knowledge and research to help people, here and around the world.

I hope you enjoy reading this first report on research, and I welcome your comments.



Kevin Hall, Vice-President (Research)



STRATEGY

University of Guelph Strategic Research Plan

The University's Strategic Research Plan helps promote, encourage and advance research strengths **in these areas** in which the University has built its reputation for quality and innovation.

The plan reflects the University's mission and its objectives, such as research intensity, internationalism and collaboration.

The University is proud of its heritage in agriculture and veterinary medicine, and of its accomplishments and programs in science and engineering, social and applied human sciences, liberal arts, humanities, fine and performing arts, and economics and business.

Investment in research enhances student teaching and learning through incorporating research techniques and discovery into the curriculum, through involving students in research design and execution, and through knowledge mobilization and transfer.

- **Agriculture, food and the bioeconomy**
- **Health and well-being in humans and animals**
- **Economic management, governance and public policy**
- **Biodiversity, environment and ecology**
- **Human behaviour, cultural evolution, creative communities**
- **Technology and applied sciences**
- **Foundations of science**

For more on Guelph's Strategic Research Plan, visit www.uoguelph.ca/research/strategic-plan

SUCCESS

Research revenue shows significant gains and record highs

\$157.5 MILLION



HIGHLIGHTS

2011-12

\$56.9 MILLION

The research agreement with the Ontario Ministry of Agriculture and Food and the Ministry of Rural Affairs provides a vital base

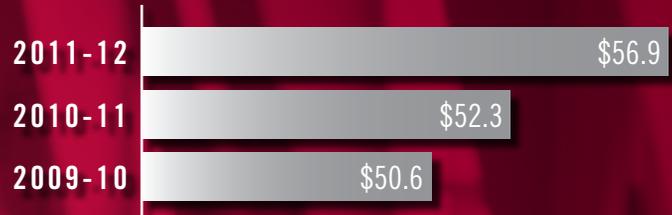
2010-11

\$27.3 MILLION

Guelph continues to garner federal funding support from sources such as Canada Research Chairs and Canada Foundation for Innovation

\$22.2 MILLION

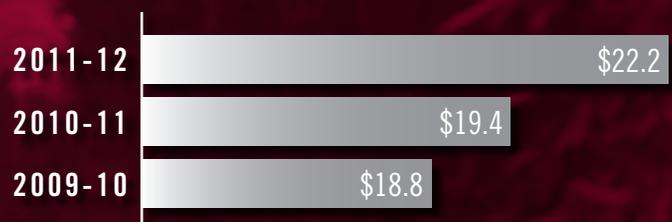
Leveraged government programs helped lead to more business and industry support for Guelph research



\$ MILLIONS



\$ MILLIONS



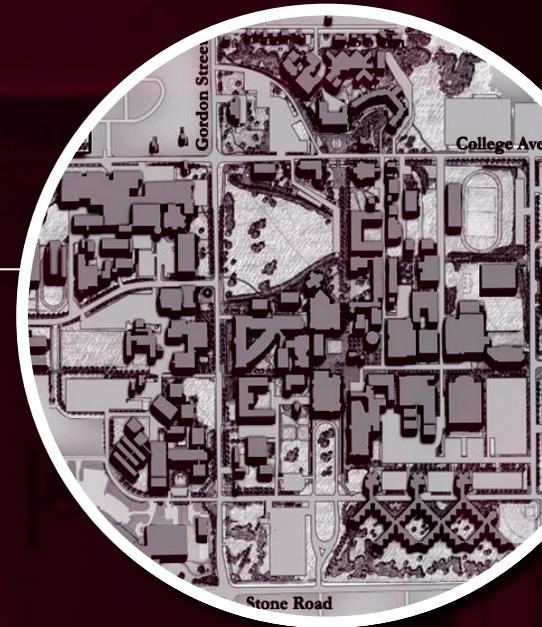
\$ MILLIONS

COMMITMENT

Guelph dedicates more space to research than any other Ontario university

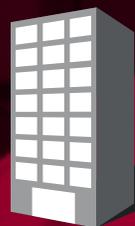
25%

Since 2001, the space dedicated to research has jumped from 45,000 square metres to 58,600 square metres. This represents 25% of the space on campus, compared to the Ontario average of 15%.



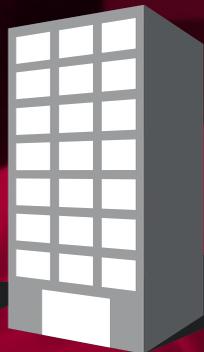


45,000
SQ. METRES



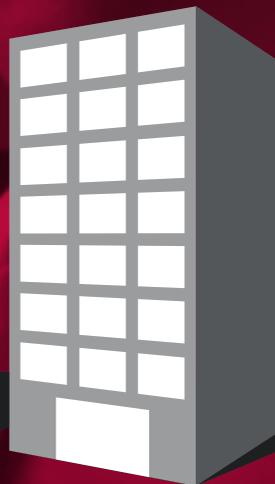
2001-02

47,100
SQ. METRES



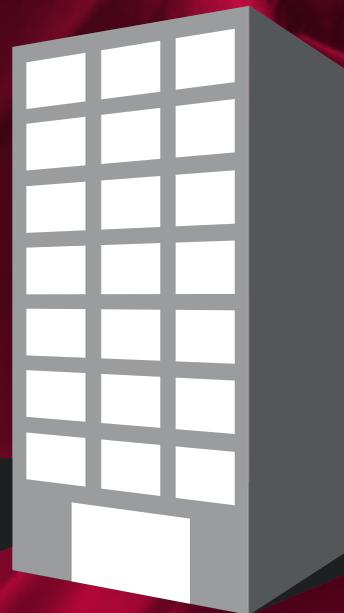
2004-05

52,300
SQ. METRES



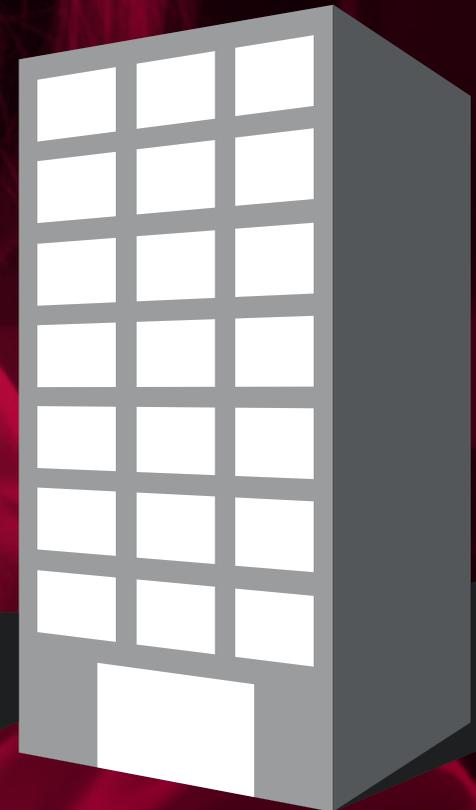
2007-08

55,100
SQ. METRES



2010-11

58,600
SQ. METRES



2011-12

SERVING STAKEHOLDERS

Guelph research discoveries move out of the lab and into business, industry and society

130
technology disclosures

40
licence agreements with industry

33
patents filed

More than \$2 million generated in licence revenue

Through the partnership with the Ontario Ministry of Agriculture and Food and the Ministry of Rural Affairs:

- *More than \$850,000 commercial revenue reinvested in research*
- *Royalty revenue generated since 1971 from plant variety development reached \$10 million*



PERFORMANCE

Guelph is the most efficient and inventive research university in Canada

1/4

Guelph is Canada's most efficient university for disclosure costs, spending about one-quarter as much as the national average

Cost per disclosure

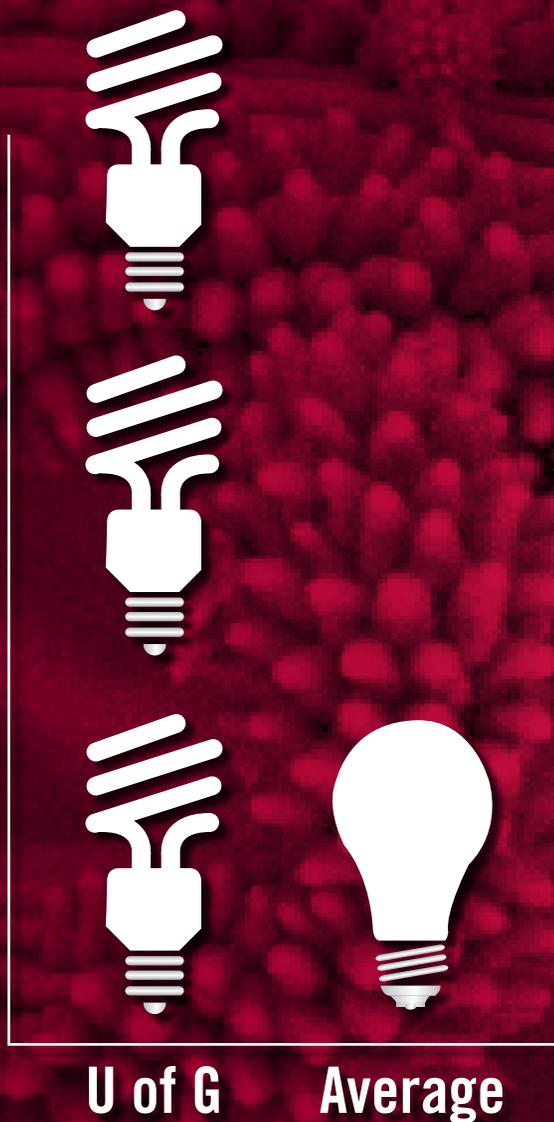
\$

U of G

\$\$\$\$\$

Average

Invention disclosures



3X

The University of Guelph leads the country by far in invention disclosures per faculty member, recording three times as many as the national average

HEAD OF THE CLASS

Guelph researchers earn top marks, changing lives and improving life for people at home and abroad



One of the world's top
300 universities



Canada's top university for
agricultural and veterinary
science publications



More publications in
biochemistry and
molecular biology than any
other Canadian university
without a medical school



More than \$3 million invested in nearly 70 knowledge translation and transfer research projects, through our partnership with the Ontario Ministry of Agriculture and Food and the Ministry of Rural Affairs



University of Guelph research revenues have consistently outperformed domestic spending on research and development



First in research opportunities at medium-size Canadian universities

LEADERSHIP

University of Guelph researchers are recognized nationally and globally for their expertise and leadership

Canada Research Chairs

Aaron Berg
Dorothee Bienzle
Milena Corredig
Myrna Dawson
Monique Deveaux
Kari Dunfield
John Dutcher
Hermann Eberl
James France
Evan Fraser
Chris Hall
George Harauz
Paul Hebert
Nina Jones
Smaro Kamboureli
Allan King
René Kirkegaard
Vladimir Ladizhansky

Joseph Lam
Jacek Lipkowski
Alejandro Marangoni
Georgia Mason
Ed McBean
Kevin McCann
Barbara Morrongiello
Linda Parker
Kathryn Preuss
Carla Rice
Frances Sharom
Barry Smit
Carl Svensson
Merritt Turetsky
Scott Weese
Chris Whitfield
David Wright
Rickey Yada

University Research Chairs

Madhur Anand
Dionne Brand
Robert Enright
Elizabeth Ewan

Daniel Fischlin
Sky Gilbert
Marion Joppe
Paul McNicholas

Robert Mullen
Ryan Norris
Steven Rothstein

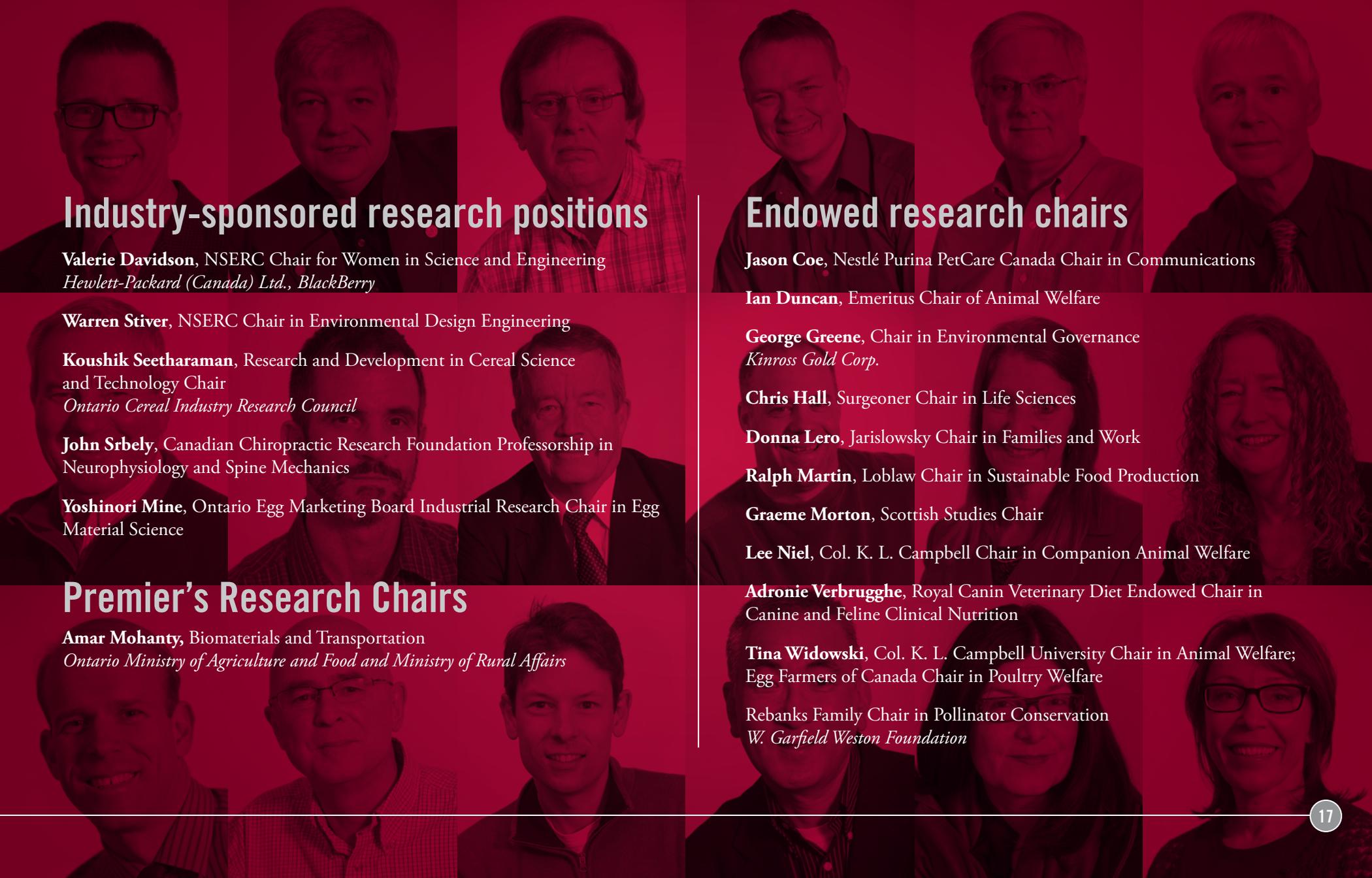
NSERC Industrial Research Chairs

Milena Corredig, Dairy Technology
Ontario Dairy Council

Mansel Griffiths, Dairy Science Microbiology
Dairy Farmers of Ontario

Beth Parker, Groundwater Contamination in Fractured Media
Boeing, Syngenta

Hongde Zhou, Advanced Wastewater Technologies
Zenon Environmental Inc.



Industry-sponsored research positions

Valerie Davidson, NSERC Chair for Women in Science and Engineering
Hewlett-Packard (Canada) Ltd., BlackBerry

Warren Stiver, NSERC Chair in Environmental Design Engineering

Koushik Seetharaman, Research and Development in Cereal Science
and Technology Chair
Ontario Cereal Industry Research Council

John Srbely, Canadian Chiropractic Research Foundation Professorship in
Neurophysiology and Spine Mechanics

Yoshinori Mine, Ontario Egg Marketing Board Industrial Research Chair in Egg
Material Science

Premier's Research Chairs

Amar Mohanty, Biomaterials and Transportation
Ontario Ministry of Agriculture and Food and Ministry of Rural Affairs

Endowed research chairs

Jason Coe, Nestlé Purina PetCare Canada Chair in Communications

Ian Duncan, Emeritus Chair of Animal Welfare

George Greene, Chair in Environmental Governance
Kinross Gold Corp.

Chris Hall, Surgeoner Chair in Life Sciences

Donna Lero, Jarislowsky Chair in Families and Work

Ralph Martin, Loblaw Chair in Sustainable Food Production

Graeme Morton, Scottish Studies Chair

Lee Niel, Col. K. L. Campbell Chair in Companion Animal Welfare

Adronie Verbrugge, Royal Canin Veterinary Diet Endowed Chair in
Canine and Feline Clinical Nutrition

Tina Widowski, Col. K. L. Campbell University Chair in Animal Welfare;
Egg Farmers of Canada Chair in Poultry Welfare

Rebanks Family Chair in Pollinator Conservation
W. Garfield Weston Foundation

CHANGING LIVES
IMPROVING LIFE

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