RIBATEJO - PORTUGAL

UNIVERSITY of GUELPH

CHANGING LIVES
IMPROVING LIFE

OAC: World Leader in Agricultural Research

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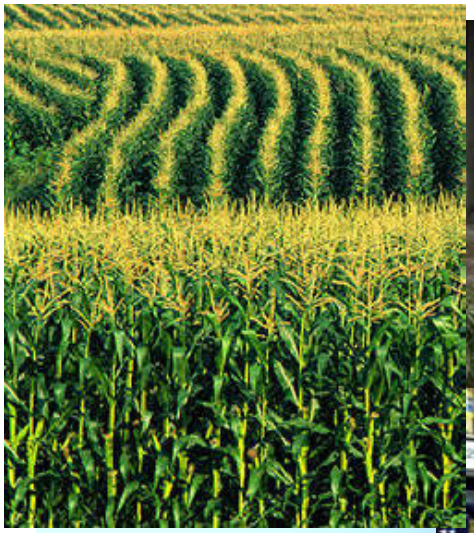
Four Areas of Emphasis

- Agriculture
- Environment
- Food
- Rural Communities







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Research Capacity

- 830 faculty
  - OAC ~ 159 (19%)
- > $160 M in research
  - OAC ~ $56 M (35%)
- 2240 graduate students
  - OAC ~ 607 (27%)
- Industrial partnerships: longstanding culture of OAC, primarily with commodity-based industries, but also with natural resource-based industries, environmental services providers, ……

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Animal Science Research

Genetics

Centre for Genetic Improvement of Livestock (CGIL)

Nutrition

Centre for Nutrition Modelling: develops biomathematical models for improved management of animals for food.

Physiology

Lactation physiology, milk composition, equine reproduction and behaviour

Welfare

Campbell Centre for the Study of Animal Welfare (CCSAW) – promotes animal welfare through research and education programs

Centre for Canada's Poultry Welfare Cluster

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Crop Science Research

Breeding & Genetics

Maize, soybean, perennial forage crops, berry crops, asparagus, barley, wheat, canola, tree fruits

Physiology

Vegetable crop physiology, nutrition and integrated crop management; genetics and physiology of greenhouse vegetables

Fertility

Inexpensive technologies to reduce/replace nitrogen fertilizers for corn (maize); Sustainable Agriculture Kits (SAKs) for developing nations

Bioproducts Discovery and Development Centre

Bio-based new materials and green nanotechnology

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Food Safety Research

Canadian Institute for Research for Food Safety (CRIFS)

Microbial detection and characterization; pathogenesis of foodborne microorganisms

Food Safety Network

http://www.foodsafetynetwork.ca/aspx/public/default.aspx

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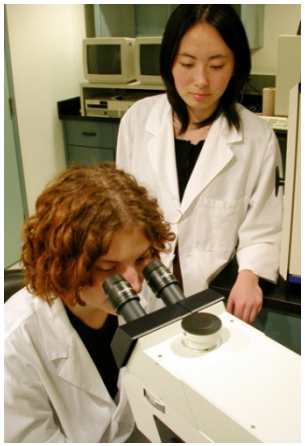
OAC Going Forward

- Emerging Research Opportunities:
  - Industry Competitiveness
  - Biomaterials and Bio-energy
  - Biotechnology
  - Functional foods, agri-health and well being
  - Global food security and food safety
  - Innovative resource management
    - water, soil, air, biodiversity
    - climate change
    - life cycle analysis



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