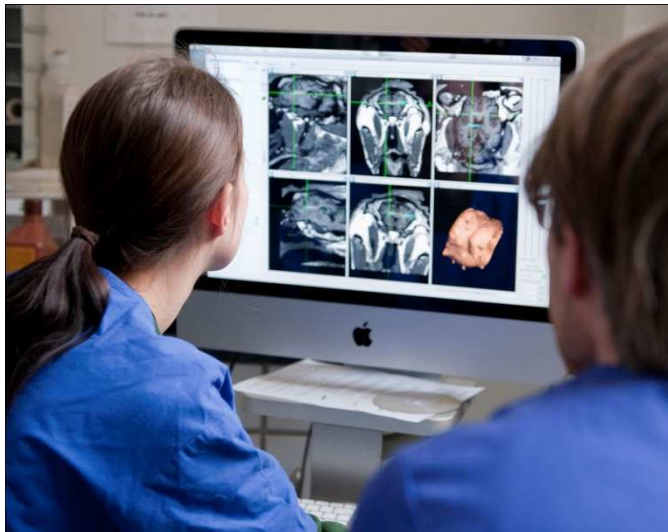

The Fraunhofer-Institute for Cell Therapy and Immunology

Rationale and motivation for a Fraunhofer Project Center at McMaster University

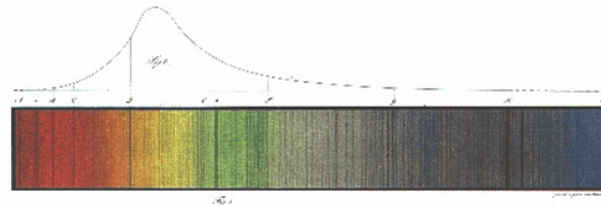
City Council of Hamilton, Ontario

May 7th, 2014



The Fraunhofer Society

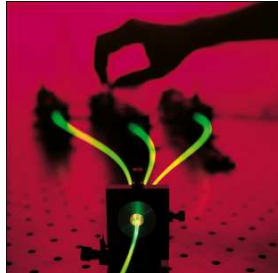
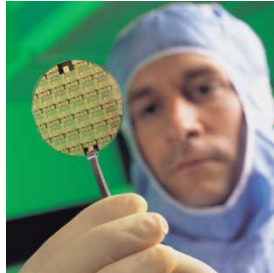
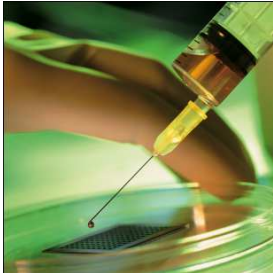
- Europe's largest society for applied and translational research (non-profit)
- 67 institutes in Europe, North and South America, and Asia / 23,000+ employees
- mission: excellent research for the benefit of people and the society
- annual research budget: € 2.1 billion / CAD 3.2 billion (2013)



Joseph von Fraunhofer (1787 – 1826)



The Fraunhofer Society



- **conducts excellent research in:**
- Information and Communication Technology
- Microelectronics
- Light and Surfaces
- Production and Energy
- Materials and Components
- Defense and Security
- **Life Sciences**

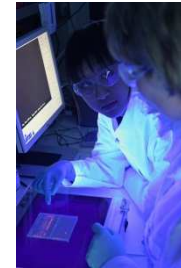


The Fraunhofer-Institute for Cell Therapy and Immunology (IZI)

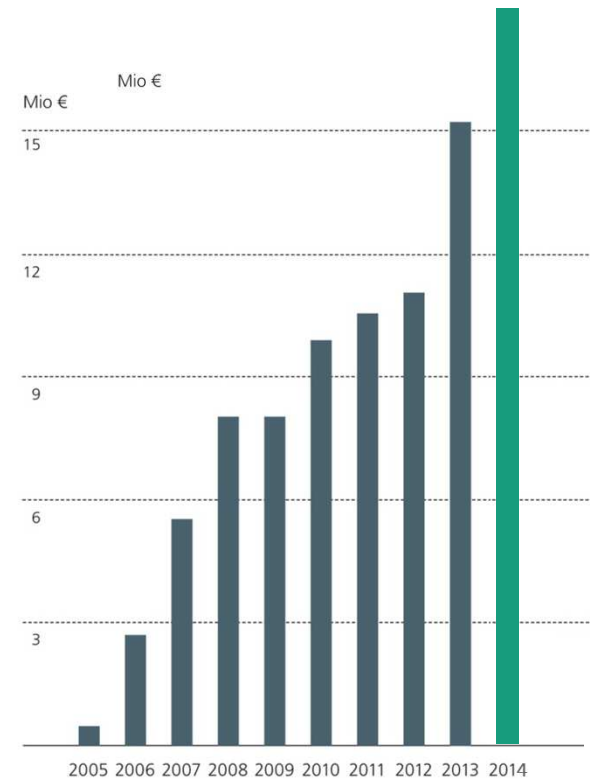
- Director: Frank Emmrich, MD

Facts and figures as of December 2013:

- founded: 2005
- 290+ employees (90% scientific personnel)
- 5 Departments, budget: € 15 M (CAD 22.8 M)
- projects with partners from the industry: 40%
- has brought 13 companies to Leipzig



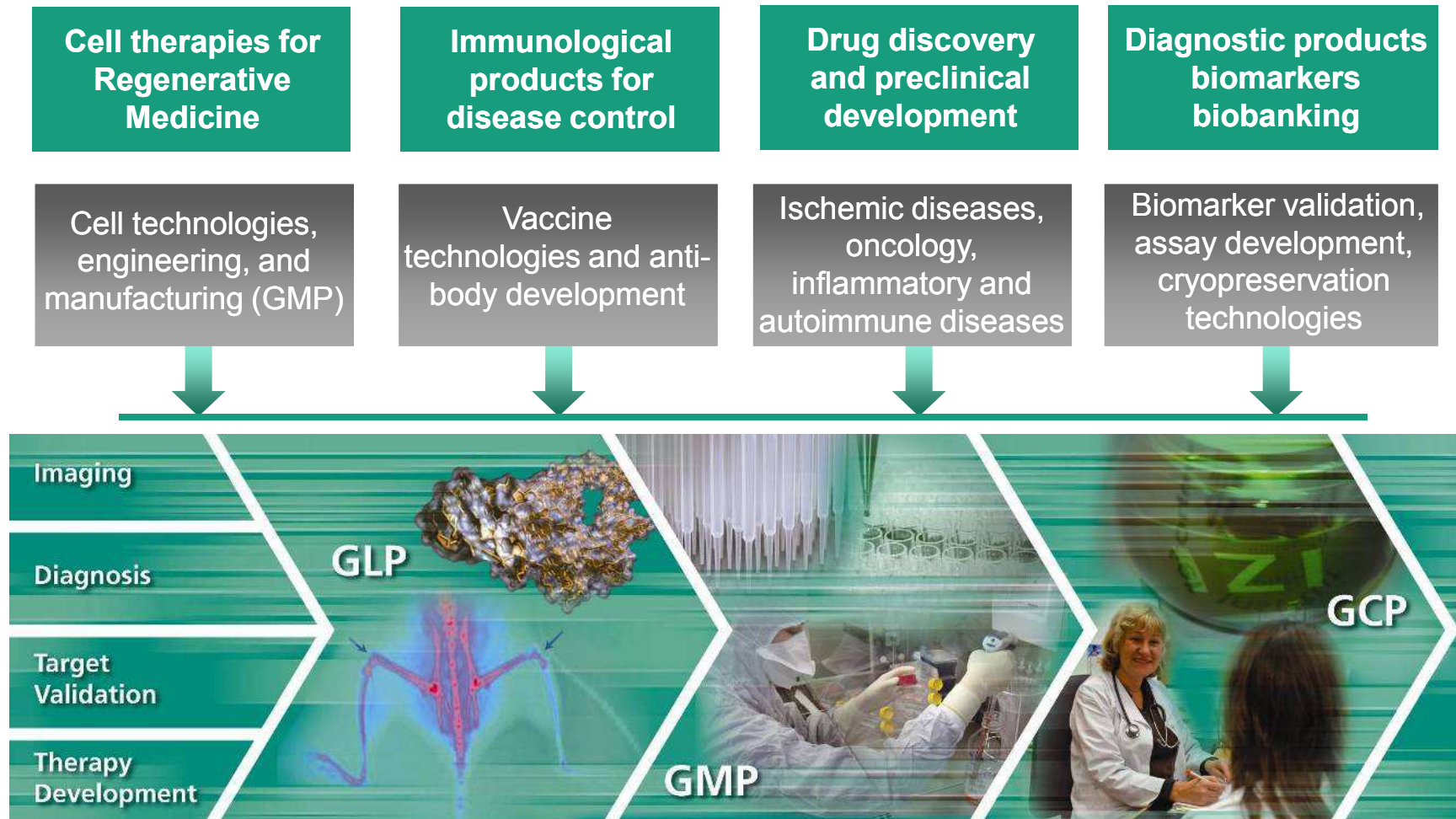
The Fraunhofer-Institute for Cell Therapy and Immunology (IZI)



Further expansion in May 2014:

- integration of a Fraunhofer Life Science Centre in Potsdam-Golm (near Berlin)
- now: 360 employees, € 18 M (CAD 27.5 M) budget

The Fraunhofer-Institute for Cell Therapy and Immunology (IZI)



The Fraunhofer-Institute for Cell Therapy and Immunology (IZI)

Our motivation (I):

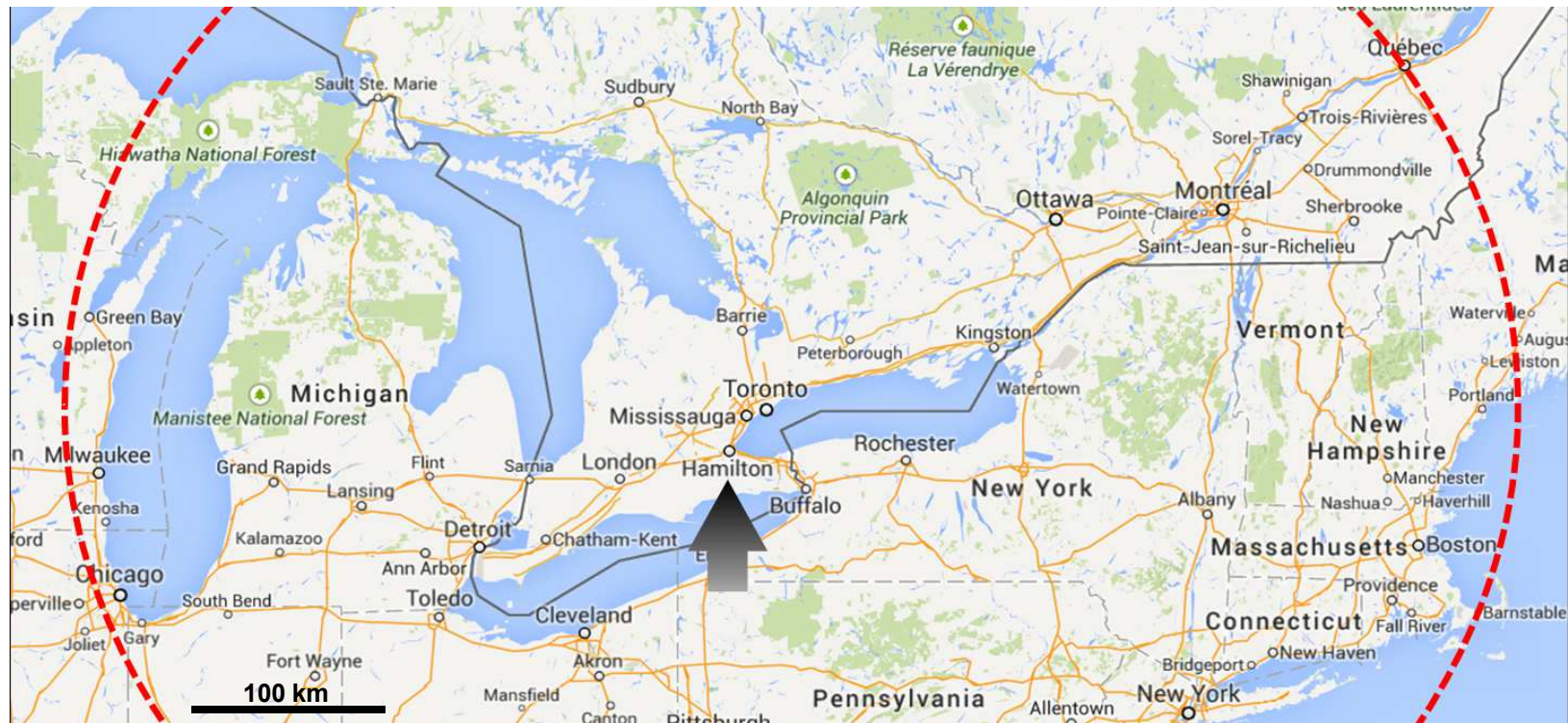
- 50% of research funds: from projects enrolling from projects overseas
- collaboration with North American centres such as Harvard, Stanford, Johns Hopkins and, particularly, **McMaster University**



The Fraunhofer-Institute for Cell Therapy and Immunology (IZI)

Our motivation (II):

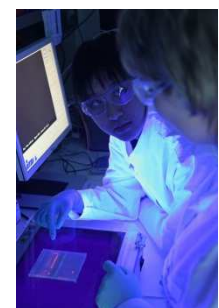
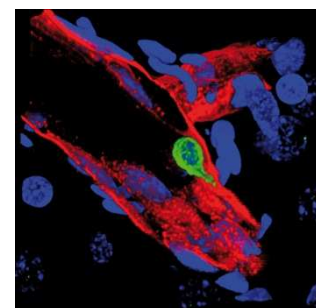
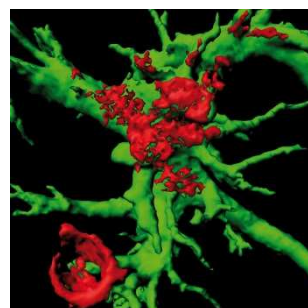
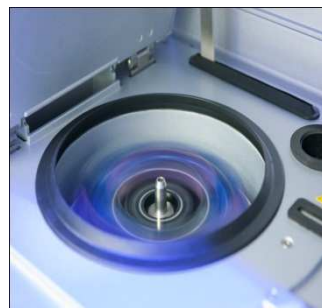
- vibrant and venturesome biotech industry in Southern Ontario
- industry-friendly environment and strong research support



The Fraunhofer-Institute for Cell Therapy and Immunology (IZI)

Our vision: by 2019, the Fraunhofer Center BEAM at McMaster University...

- will be the largest Canadian / 2nd-largest North American Fraunhofer Center
- has developed world-class therapeutic cell products and next-generation GMP cell production technologies
- has attracted industrial customers to Hamilton to facilitate close R&D
- houses 70 scientists, technicians, students + industry partners/guests
- is a bridge head and service center for European biotech SMEs willing to explore the Canadian market from permanent subsidiaries



Thank you very much for your attention!

German companies expressing interest in BEAM
or considering a Hamilton subsidiary:

