HQP Experience

Scott Cieslar

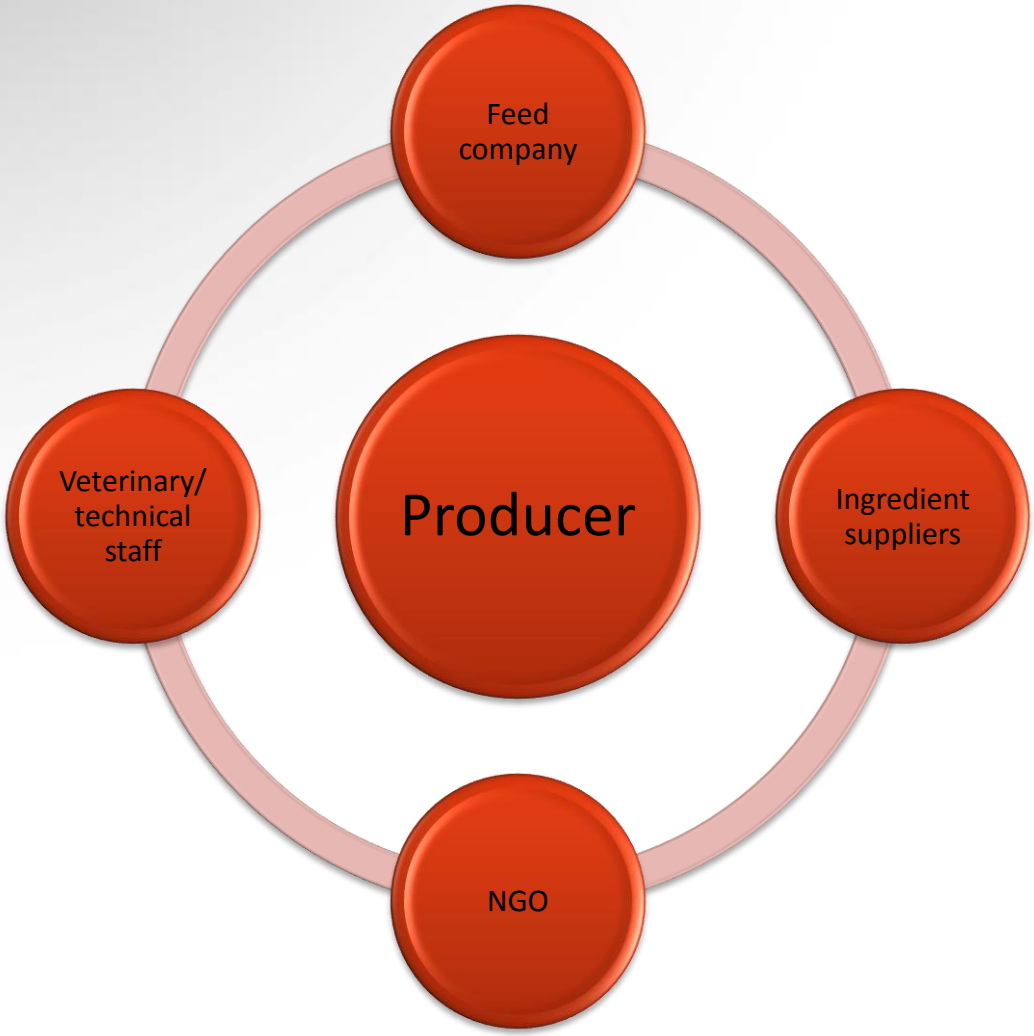
Project

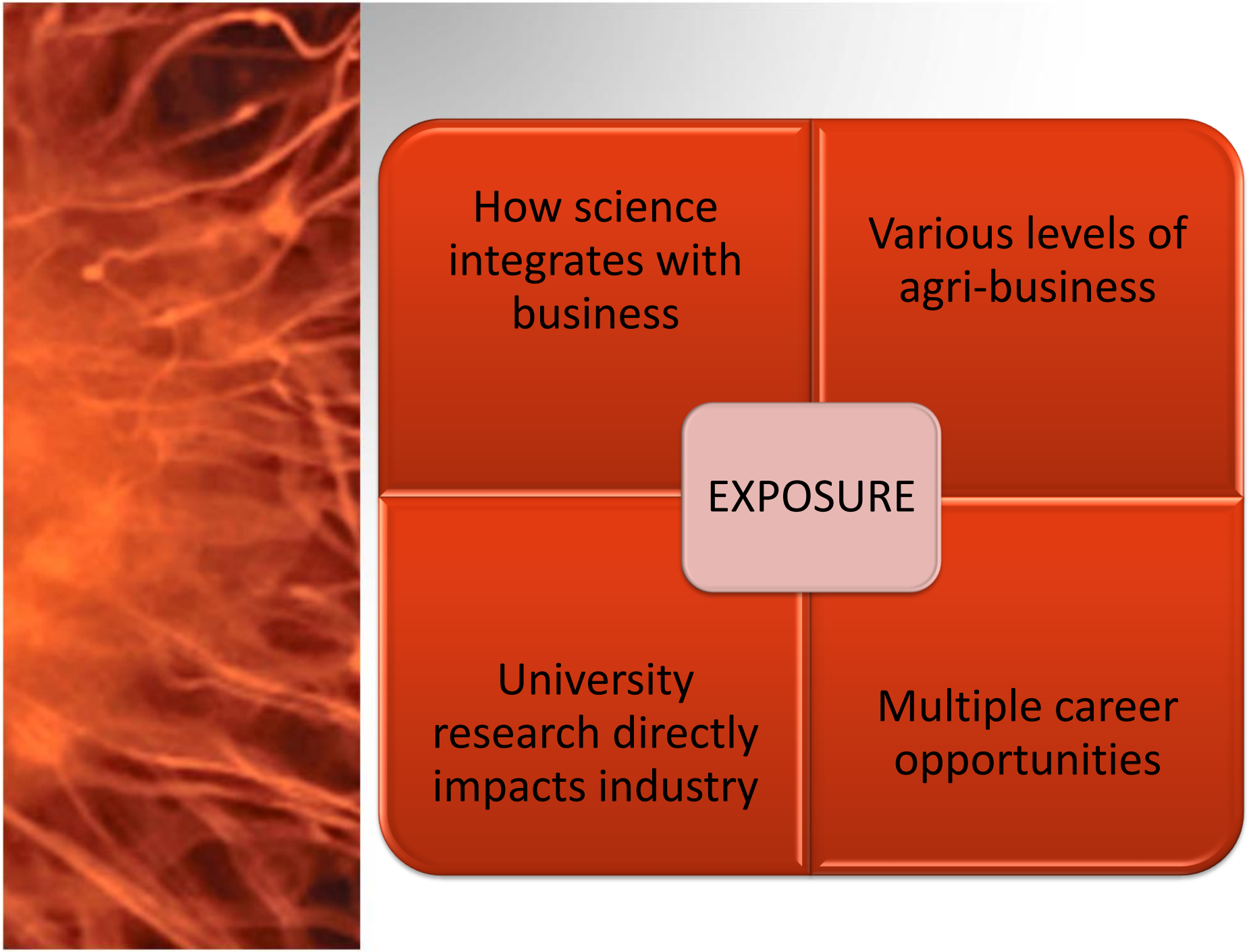
- Examining impact of selenium on persistency of lactation and immune function in Holstein dairy cows
  - Fed graded levels of Sel-Plex to 80 cows
  - Measured milk and feed. Liver and mammary biopsies
  - Examine cell proteins for indications of oxidative stress and level of apoptosis and proliferation
- Peripheral Projects
  - Selenized milk proteins and human health
    - Breast cancer model in mice
    - Diabetes (IR) model in rats

Work Term

- Farm Trials and Presentations
  - Measured impact of Sel-Plex at farm level on cow performance, milk selenium levels and health parameters
    - Set up trial design
    - Analyzed data
    - Presented findings to veterinarians, feed companies, and producers
- Work term completed in SW Ontario
- Traveled to Alltech HQ in KY to discuss findings with staff and customers from around the world.

Opportunity




How science integrates with business
Various levels of agri-business
EXPOSURE
University research directly impacts industry
Multiple career opportunities

Closing Comments

- HQP Course
  - Invaluable exposure to business and case studies
  - Idea to market
  - Business Plan
- Sponsor Company
  - Trial period with new employee
  - Obtain skill set might not otherwise employ
- Student Benefit
  - BUSINESS TRAINING!!!
  - Allows broader perspective of research and direct experience with application of research
  - Clearer idea of career opportunities