



THE PRINCE EDWARD ISLAND BIOSCIENCE CLUSTER



BIOACTIVES FOR HEALTH

- Research, development, and commercialization of bioactives-based products
- Marine and terrestrial organisms as chemical factories for novel bioactives
- Human Health: cosmetic ingredients, nutraceuticals, vaccines, approved pharmaceutical ingredients
- Companion animal, food animal, and fish health and nutrition products
- The BioAlliance Ecosystem: a unique business-research-government collaboration focused on business success
- Extensive international networks

Your PEI Advantage: Faster to Market

RESEARCH PARTNERS

- National Research Council Institute for Nutrisciences & Health
- University of Prince Edward Island
- Atlantic Veterinary College
- Holland College
- Institute for Human Health Research
- Agriculture & AgriFood Canada

GOVERNMENT PARTNERS

- Atlantic Canada Opportunities Agency
- Innovation PEI
- National Research Council Industrial Research Assistance Program
- Foreign Affairs and International Trade Canada
- Industry Canada

health from land and sea

PRINCE EDWARD ISLAND
 **BioAlliance**

www.peibioalliance.com

PRINCE EDWARD ISLAND PRIVATE-SECTOR COMPANIES

Aqua Bounty: Provides technology to reduce commercially-farmed salmon and trout harvests by half; conducts R&D on anti-infectives therapeutics for shrimp and finfish and develops strategies to improve shrimp genetics.

Aquascience LLC: The development and commercialization of technologies that can improve the health and efficiency of aquatic species.

ARK BioMedical: Manufactures and sells medical technology around the world! ARK BIO manufactures microwave plasma defrosters for FFP.

Atlantic Agritech: Provides contract research services for agriculture, commercial, home garden and forest sectors throughout North America.

Atlantis Bioactives: Extracts and purifies active pharmaceutical, biopharmaceutical, natural and semi-synthetic taxanes from locally-grown ground hemlock used in chemotherapeutic treatment of breast and ovarian cancers.

BioMolecular Pharma: Designs novel candidate pharmacologic agents for a wide range of disorders.

BioVectra: Development partners and contract manufacturers for major pharmaceutical company products.

Ceapro: Develops and commercializes organic products for personal care and cosmetic industries. Ceapro has achieved a reputation as an innovative formulator and advanced processor of active ingredients, botanical extracts, and therapeutic products.

Chemaphor: Develops carotenoid compounds, commonly-known as beta-carotene and lycopene, which have oxidation benefits for non-pharmaceutical use and cancer treatment applications.

CNS-CRO: A private pre-clinical neurological disease speciality laboratory. CNS-CRO offers a range of proprietary cell-based and animal models for pre-clinical evaluation of test compounds for neurodegenerative disease. They also have extensive expertise in behavioural and cognitive assessment.

Dimole Inc.: Develops and markets state-of-the-art microarray technology solutions for laboratories. Their innovative products allow laboratories to provide fast and reliable molecular diagnostics.

Global Vetnostics: Provides histo pathology and cytology services to veterinary laboratories 'remotely', through the use of advanced computer technology.

Hendrick Seeds: A non-GMO soybean research, breeding and seed company focused on specialty food-grade seed varieties, offering DH™ premium Certified soybean and natto seed varieties used to meet the needs of specialty soy food and beverage markets.

Insectrol Inc.: Produces an all-natural brand of mosquito area repellent, Comfort Zone™, made from non-toxic garlic oil, called Chemical-free, safe, and effective.

Island Abbey Foods: An Island-based company that produces 100% pure honey-based products, such as the Honey Drop Lozenges and Honey Delight candy, Pure Honey Sprinkles and honey suckers. The Honey Drop is the world's first pure, non-sticky honey that you can hold.

Lisi Therapeutics: Develops therapeutics for cancer and other life-threatening illnesses. The company has established LISI Atlantic Development Inc. (LADI) in Charlottetown, PEI to conduct the company's in-house research and development activities.

Maritime Pulse Drying: Provides contract drying of high-value bioactives and nutraceutical/functional food ingredients.

Murphy's Animal Health: Murphy Laboratories specializes in innovative health care solutions through custom compounding and product research and development. Areas of focus include pharmaceuticals, natural health products, cosmetics, and animal health.

Technology Crops International: A premier supplier of organic, non-GM, and expeller pressed oils. They manage the supply chain of high value non-commodity products derived from specialty grown crops for a range of industries, including functional food, pharmaceutical, cosmetic and specialty channels.

Nautilus Biosciences Inc.: Develops production methods and new drug leads derived from marine organisms.

Neurodyn Inc.: Produces products for early detection and treatment of neurological diseases.

Novartis Animal Health Canada: Researches, develops and manufactures vaccines for the aquaculture industry.

OmniActives: OmniActive Health Technologies (OmniActives™) supplies nutritional ingredients to healthcare, food and personal care industries.

Phytterra Bio: Proficient in the genetic manipulation and transformation of micro algae, establishing the company as a world leader in plant molecular biology, using single-cell micro algal species, *Chlamydomonas reinhardtii*, as a platform for the cost-effective expression of bioactive proteins and their delivery as oral and health care products.

Phytterra Yeast: Develops and commercializes advanced urea-degrading yeast products to reduce a known naturally occurring carcinogen, Ethyl Carbamate, found in many commonly-consumed yeast-fermented foods and beverages.

Phytocultures: Transfers and adapts plant tissue culture technology, phytokit systems and in vitro plant propagation.

Regis Duffy Bioscience Fund: A \$1 Million fund created to invest in Bioscience related activities in PEI. The fund assists emerging science based businesses that are at the commercialization or near commercialization stage of their development to receive up to \$100,000 in equity.

Sekisui Diagnostics PEI: Unique product portfolio for diagnostic manufacturers and clinical laboratories worldwide: Diagnostic Intermediates or critical raw material; finished reagent kits for clinical chemistry analyzers; and point of care rapid tests.

Solarvest: Development and testing of laboratory scale hydrogen production from genetically modified algae on a continuous cycle basis.

Syndel Laboratories: A world-class organization that specializes in cost-effective aquatic animal health solutions for reproduction, disease prevention and treatment, and biosecurity.

TekMash: Specializes in the field of hydro-dynamics, and has developed unique technologies used for producing soy-based foods and beverages, agricultural livestock feeding solutions, liquids and chemicals based thermal heating solutions, and biodiesel.

TetraGenx: A provider of medicated, pre-mixed nutrition and health products for the animal health and pharmaceutical markets.

Tube Fab: Fluid delivery systems for industrial, medical and commercial industries.

Virotechnologies: Vaccines for finfish. Provides virology technology services and conducts molecular virology R&D.

Vitrax: Manufacturer of high-quality radiolabeled chemicals and has been supplying the global pharmaceutical industry and individual researchers with labeled compounds for over fifteen years.