

InnoTech Alberta is a research and innovation organization, with a range of technologies available for licensing. Our focus is on the growth and development of technology-based sectors and the commercialization of technology in Alberta. We provide business and technical services, and initiatives that encourage a strong science, technology and entrepreneurial culture in Alberta.

LICENSING OPPORTUNITY

Jerusalem Artichoke

LEVERAGE OUR TECHNOLOGY

InnoTech Alberta has a variety of technologies available for licensing. We will work with companies, from small to large, to set up mutually beneficial licensing deals. With more than 90 years in applied research and development, we are an experienced commercialization partner. InnoTech's licensing opportunities are the result of our world-renowned research programs. Contact us to explore these opportunities.

TECHNOLOGY OVERVIEW

InnoTech Alberta has extensive expertise in the cultivation of Jerusalem Artichoke (JART) and the extraction of valuable end products.

We have developed a proprietary, highly efficient method for JART propagation. In addition, InnoTech Alberta is the exclusive licensee for six JART cultivars, which are available for sublicensing.

ADVANTAGES

Excellent raw material for development of functional foods and industrial products:

Inulin:

- » Soluble dietary fibre and a prebiotic, can be incorporated into a variety of functional foods
- » Found in both tubers and stalks; tubers contain up to 20% inulin



Jerusalem Artichoke

- » Lactic Acid: Used in a variety of food and industrial applications
 - » Fuel ethanol: Sugars extracted from tubers and stems can be used to manufacture ethanol
- Exceptional capacity to produce biomass
- » Some varieties can produce over 100 tonnes of biomass per hectare per year (30 tonnes of tubers and 70 tonnes in foliage and stalk)
 - » Extensive root system when grown as a perennial; useful for carbon sequestration and phytoremediation
 - » Stalks and leaves have high feeding value for livestock; can be used for forage as hay or silage

Jerusalem Artichoke

COMMERCIAL APPLICATIONS

- » Source of novel bioproducts for functional foods and pharmaceutical industries
- » Source of sugars for fuel ethanol
- » Phytoremediation of hydrocarbon contaminated soils
- » Crop diversification of marginal lands

STATUS

InnoTech Alberta has the exclusive license to six varieties.

This technology is available for sublicensing.

WANT TO EXPLORE THIS OPPORTUNITY?

Licensing@albertainnovates.ca



Inulin, a sugar replacement found in the tubers and stalks of JART

Our province is blessed with abundant natural resources, world-class infrastructure and research institutions, a highly skilled workforce, and a dynamic, entrepreneurial business community. Alberta Innovates harnesses these strengths by acting as the catalyst between government, industry and academia, to solve some of the biggest challenges facing our province.

TECHNICAL SERVICES

Helping organizations develop their technologies faster and smarter through a subsidiary, InnoTech Alberta.

- » 100,000 m2 of product/process development and scale-up facilities in the areas of petroleum, environment and carbon management, bio and industrial technologies
- » 300 hectare research farm, three greenhouses, and 36 growth chambers

FUNDING PROGRAMS

- » Fostering an entrepreneurial culture and increasing Alberta's critical mass of innovation talent
- » Post-secondary investment programs offer a broad range of support to researchers at all stages of their careers, from graduate students to the world's top researchers

- » Industry investment programs offer support to Alberta-based SMEs in a variety of ways to help accelerate their growth and success

REGIONALLY ACCESSIBLE COMMERCIALIZATION SUPPORT

- » Making connections and pointing businesses and entrepreneurs in the right direction
- » Alberta Regional Innovation Network System - an integrated province-wide system ensuring SMEs and innovators have access to vital services and resources to help them succeed

LICENSING SERVICES

- » Managing the translation of Alberta Innovates intellectual property into business solutions
- » Facilitating licensing deals with industry anywhere in the world