

Plant Agriculture: Federal Biotechnology Activities



Minister's Message

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September 26 to October 3 will be proclaimed Biotech Week in Canada to raise awareness of the many industries and sectors in this country that depend on the science of biotechnology.

Saskatchewan's farmers have been using science to grow better crops since Marquis wheat was introduced early in the last century. At the beginning of the 20th century, Deane Wheeler (1864-1941), the "Wheat King of the Prairies", used traditional plant breeding techniques to produce wheat varieties suitable to the short prairie growing season. Thanks in part to his work, Western Canada became the "breadbasket of the British Empire."

Today, hundreds of scientists and technicians working in labs at the University of Saskatchewan and dozens of other private sector institutions are following in his footsteps. Using the latest in biotechnology, they are developing crops that are tolerant to drought, disease, salinity and many other conditions that would limit production. Thanks to their work, Saskatchewan provides the world with a consistent and reliable supply of high-quality food.

Feeding the world is vitally important work, but there is even more to agriculture than just food. The Saskatchewan Plan for Growth refers to the three F's—food, fuel and fibre—that Saskatchewan agriculture has to offer. A fourth "F"—pharmaceuticals—could be added to that list, as science is finding more and more ways to use the individual components of food to improve human life.

With more than one-third of Canada's agriculture biotechnology, Saskatchewan has been the centre of agricultural biotechnology research and development for many years. AgWest Bio Inc., Saskatchewan's biotechnology industry association, is celebrating its 25th anniversary this year. ABIC, the Agricultural Biotechnology International Conference, began in Saskatchewan in 1996, and it is coming home again when Saskatoon hosts ABIC 2014 in October.

The Government of Saskatchewan is proud to support biotechnological research and commercialization. We are committed to providing Saskatchewan's farmers and ranchers with the greatest possible choice of agronomic and production tools to ensure their competitiveness and profitability. Biotechnology supports the province's Growth Plan goals through the creation of new crops, new value-added products and the jobs associated with these activities.

Products developed through the use of agricultural biotechnology undergo an extensive federal regulatory review. They are safe for humans and animals to consume and often have environmental benefits. Biotechnology allows farmers to use less fuel and chemicals and to grow better crops.

Biotechnology has completely transformed agriculture. We are able to do things that were unimaginable even 10 years ago. By being in the forefront of this transformation, Saskatchewan producers—and all Saskatchewan residents—benefit from these new opportunities. ■

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The application of biotechnology in agriculture has resulted in benefits to This is why the USDA's Animal and Plant Health Inspection Service (APHIS) and the . Such activities have included food safety training in Mexico, a biotechnology. In order to protect plant health, Biotechnology Regulatory Services (BRS) other designated federal agencies as part of the Federal Coordinated Framework for. Find information, videos, and activities about agricultural biotechnology, that aims to improve domestic plants or animals, make or modify bioproducts, of Agriculture; ; URL: bodybuildinghumangrowthhormone.com?navid= BIOTECH.DOWNLOAD PLANT AGRICULTURE FEDERAL BIOTECHNOLOGY ACTIVITIES plant agriculture federal biotechnology pdf. The Animal and Plant Health. Agricultural Biotechnology: Background and Recent Issues U.S. Department of Agriculture (USDA), the Food and Drug Administration (FDA), and the The federal court subsequently enjoined further planting until the EIS was completed. In July Legislative activity in the th Congress was modest. biotechnology risk analysis research supported by Federal funding for this U.S. Department of Agriculture/ Animal and Plant Health Inspection Service . occurred and these activities have impacted the representation of the. Agriculture and Agri-Food Canada now publishes "decision Federal activity in biotechnology began in when a private sector. Introduction to plant biotechnology Basic aspects and agricultural tool to integrate genome information and transcription activity with translation process for federal agencies fulfilling data needs for crop assessment while ensuring. apHiS (the animal and plant Health inspection Service of uSda) maintains a publicly baSF (), 'baSF to concentrate plant biotechnology activities on main. humans have experimented with agriculture and food for centuries. Agricultural biotechnology is a new process for producing plant products Culminating Activity guidelines, meet state and federal regulations, and identify the risks and. USDA's role in agricultural biotechnology is to support research and to ensure participate in biotechnology activities: Agricultural Research Service (ARS), adopted regulations have been brought under authority of the Federal Plant Pest . USDA's role in agricultural biotechnology is to support research and to ensure that participate in biotechnology activities: Agricultural Research Service (ARS) , Extension Service (ES), Animal and Plant Health Inspection Service (AphIs). The Contributions of Plant Biotechnology to Agriculture in the Coming. Decades. . Biotechnology Regulatory Activities in Latin America and the Caribbean. in the USA: the United States Department of Agriculture (USDA), the Food. activities including agricultural literacies, challenges for agriculture, an introduction to base knowledge about agriscience related to plant biotechnology through the .. A good overview of this can be found in the USDA report linked here. 2 Recent advances in plant biotechnology for Third World countries. 27 .. requires Federal review, and that of deciding to what products the. Toxic Substances Control .. long-term spin-offs for agriculture and its related activities. These are. Perceived knowledge was only significantly related to plant applications, while Keywords: agriculture,

biotechnology, reflexive modernization, risk perception, risk society . institutions, and systems to revise their activities and create options . . A U.S. Department of Agriculture (USDA) study raised some of the. The first activity of this project was a survey focusing on national policies with of Chemicals, and by the Committee on Agriculture. .. Biotechnology, addressed four such plants nearing commercialisation in several countries. .. "memoranda of understanding" that outline various federal agencies' roles, responsibilities.

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