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Authors: Sara F. Sarkar, Jacquelyne S. Poon, Etienne Lepage, Lori Bilecki, Benoit Girard



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TITLE**Enabling a Sustainable and Prosperous Future through Science and Innovation in the Bioeconomy at Agriculture and Agri-Food Canada****Author names and affiliations**

Sara F. Sarkar, Jacquelyne S. Poon, Etienne Lepage, Lori Bilecki, Benoit Girard

Agriculture and Agri-Food Canada

Corresponding author

Benoit Girard, benoit.girard@agr.gc.ca

Present address

Kentville Research and Development Centre, 32 Main Street (Room B-207C), Kentville, Nova Scotia, Canada, B4N 1J5

Highlights

Innovation and research key priorities on climate change and sustainable agriculture.

Agricultural bioeconomy challenges require transformative solutions.

Coordination needed for national investments in bioeconomy and strategic policies.

ABSTRACT

Science and innovation are important components underpinning the agricultural and agri-food system in Canada. Canada's vast geographical area presents diverse, regionally specific requirements in addition to the 21st century agricultural challenges facing the overall sector. As the broader needs of the agricultural landscape have evolved and will continue to do so in the next few decades, there is a trend in place to transition towards a sustainable bioeconomy, contributing to reducing greenhouse gas emission and our dependency on non-renewable resources. We highlight some of the key policy drivers on an overarching national scale and those specific to agricultural research and innovation that are critical to fostering a supportive environment for innovation and a sustainable bioeconomy. As well, we delineate some major challenges and opportunities facing agriculture in Canada, including climate

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