



ADI IsletCore Protocols for the Isolation, Assessment and Cryopreservation of Human Pancreatic Islets of Langerhans for Research Purposes 🖘

James Lyon<sup>1</sup>, Aliya Spigelman<sup>1</sup>, Patrick MacDonald<sup>1</sup>, Jocelyn Manning Fox<sup>1</sup>

<sup>1</sup>University of Alberta

dx.doi.org/10.17504/protocols.io.x3mfqk6

**Human Cell Atlas Method Development Community** 



## **ABSTRACT**

This collection of protocols describe the processes used by the Alberta Diabetes Institute IsletCore for the isolation of human pancreatic islets of Langerhans for research. In addition, protocols related to quality control and the cryopreservation of human islets are included.

The ADI IsletCore program is described in full here:

Lyon J, Manning Fox JE, Spigelman AF, Kim R, Smith N, O'Gorman D, Kin T, Shapiro AMJ, Rajotte RV, MacDonald PE (2016) Research-focused isolation of human islets from donors with and without diabetes at the Alberta Diabetes Institute IsletCore. <u>Endocrinology</u>, 157(2): 560-569.

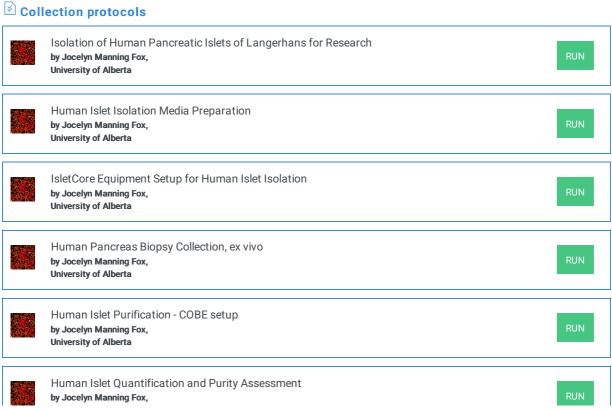
**EXTERNAL LINK** 

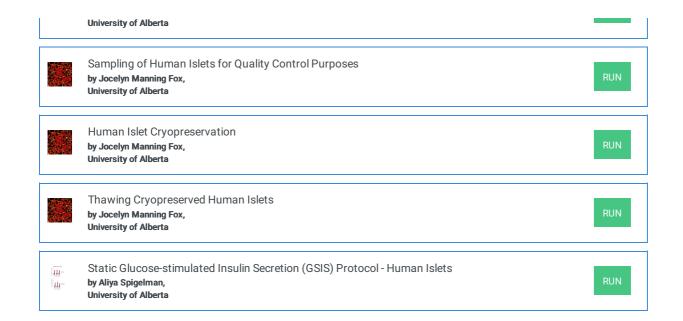
www.isletcore.ca

PROTOCOL STATUS

## Working

We use this protocol in our group and it is working





This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited