VERSION 1

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Protocol status: Working
 We use this protocol and it's working

Created: Feb 12, 2019

ADI IsletCore Protocols for the Isolation, Assessment and Cryopreservation of Human Pancreatic Islets of Langerhans for Research Purposes V.1

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Human Cell Atlas Method Development Community

CIRTNR2FIC

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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.

[Endocrinology, 157\(2\): 560-569.](https://doi.org/10.1016/j.jce.2016.05.009)

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Cryopreservation, IsletCore

FILES

Protocol
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Protocol
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Human Islet Purification - COBE setup

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Human Islet Quantification and Purity Assessment

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Sampling of Human Islets for Quality Control Purposes

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Human Islet Cryopreservation

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Thawing Cryopreserved Human Islets

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NAME
Static Glucose-stimulated Insulin Secretion (GSIS) Protocol - Human Islets

VERSION 3

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