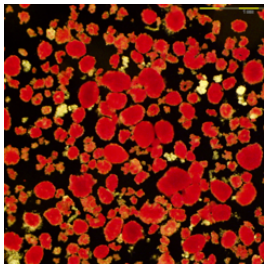
Feb 12, 2019 Version 1

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



DOI
https://dx.doi.org/10.17504/protocols.io.x3mfqk6

James Lyon[1], Aliya Spigelman[1], Patrick MacDonald[1], Jocelyn Manning Fox[1]

[1]University of Alberta

Human Cell Atlas Metho... CIRTNR2FIC

Jocelyn E Manning Fox
University of Alberta

OPEN ACCESS

DOI: https://dx.doi.org/10.17504/protocols.io.x3mfqk6

External link: www.isletcore.ca

Collection Citation: James Lyon, Aliya Spigelman, Patrick MacDonald, Jocelyn Manning Fox 2019. ADI IsletCore Protocols for the Isolation, Assessment and Cryopreservation of Human Pancreatic Islets of Langerhans for Research Purposes. **protocols.io** **https://dx.doi.org/10.17504/protocols.io.x3mfqk6**

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

Created: February 12, 2019

Last Modified: February 12, 2019

Collection Integer ID: 20301

Keywords: Human Islets, Islets of Langerhans, Cryopreservation, IsletCore, alberta diabetes institute isletcore for the isolation, human islets from donor, cryopreservation of human pancreatic islet, cryopreservation of human islet, human pancreatic islets of langerhan, human islet, human pancreatic islet, alberta diabetes institute isletcore, diabetes institute isletcore, adi isletcore protocols for the isolation, adi isletcore program, adi isletcore protocol, diabetes at the alberta, diabetes, cryopreservation, endocrinology, langerhans for research purpose

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**.

Files

SEARCH

Protocol

NAME

Isolation of Human Pancreatic Islets of Langerhans for Research

VERSION 2

CREATED BY

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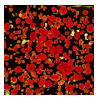
OPEN →

Protocol



NAME

Human Islet Isolation Media Preparation

VERSION 1

CREATED BY

Jocelyn E Manning Fox
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OPEN →

Protocol

NAME

IsletCore Equipment Setup for Human Islet Isolation

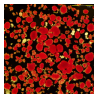
VERSION 1

CREATED BY

Jocelyn E Manning Fox
University of Alberta

OPEN →

Protocol



NAME

Human Pancreas Biopsy Collection, ex vivo

VERSION 1

CREATED BY

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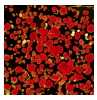
Protocol



NAME

Human Islet Purification - COBE setup

VERSION 1

CREATED BY

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Protocol

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Human Islet Quantification and Purity Assessment

VERSION 1

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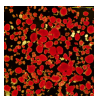
Protocol



NAME

Sampling of Human Islets for Quality Control Purposes

VERSION 1

CREATED BY

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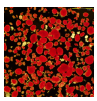
Protocol



NAME

Human Islet Cryopreservation

VERSION 1

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Protocol

NAME

Thawing Cryopreserved Human Islets

VERSION 1

CREATED BY

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OPEN →

Protocol

NAME

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

VERSION 3

CREATED BY

Aliya F Spigelman
University of Alberta

OPEN →