



Sernova and Evotec

**Partnership and Licensing Option Agreement
iPSC-Based Beta Cell Replacement Therapy for
Insulin-Dependent Diabetes**

May 17, 2022

SERNOVA FORWARD-LOOKING

STATEMENTS

This presentation contains forward-looking statements within the meaning of applicable Canadian securities laws. Forward-looking statements in this presentation are statements that are not historical facts and are generally, but not always, identified by the words “expects”, “plans”, “anticipates”, “believes”, “intends”, “estimates”, “projects”, “potential” and similar expressions, or that events or conditions “will”, “would”, “may”, “could” or “should” occur. Forward-looking statements include statements about subsequent clinical activity, including enrolment of patients and continuing results therefrom, and the potential benefits, safety and efficacy of the Cell Pouch for various indications, including type 1 diabetes (T1D).

While Sernova considers these assumptions to be reasonable, these assumptions are inherently subject to significant scientific, business, economic, competitive, market and social uncertainties and contingencies. Additionally, there are known and unknown risk factors that could cause Sernova’s actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements contained in this presentation. Results in early-stage clinical trials may not be indicative of full results or results from later stage or larger scale clinical trials and do not ensure regulatory approval. Readers should not place undue reliance on these statements, or the scientific data presented and should refer to the risk factors identified in the company’s continuous disclosure filed on SEDAR.com. Sernova expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

EVOTEC FORWARD-LOOKING

STATEMENTS

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- Sernova has acquired an option for an exclusive global license to Evotec's Induced Pluripotent Stem Cell (iPSC)-based human beta cells for use with its Cell Pouch System to treat insulin-dependent diabetes
- Provides Sernova access to unlimited supply of insulin-producing islet cells, removing the major obstacle to commercialization of Cell Pouch given current supply constraints of human donor islets
- Evotec making €20M / CAD \$27M equity investment in Sernova
 - €15M / CAD \$20M at CAD \$1.57 per share (closing price on May 16, 2022)
 - €5M / CAD \$7M by August 31, 2022 at CAD \$2.50 per share, or earlier if 5-day VWAP hits CAD \$2.50
 - Equates to ~6% equity position in Sernova
- Preclinical development program(s) will be co-developed until IND
- Evotec will manufacture the cells through commercialization
- IND anticipated in early 2024
 - Sernova has right to exercise its option for an exclusive global license upon IND filing
 - Sernova will owe undisclosed milestone payments upon license option exercise and upon first patient dosed
- Evotec has an option for joint funding of clinical development with a profit-sharing participation upon commercialization

Strong Strategic Fit to Advance Potential 'Functional Cure' for Diabetes

Partnership and licensing option agreement to enable a potential 'functional cure' for insulin-dependent diabetes without supply constraints

Cell Pouch System™

- Implantable medical device / immune protected cells
- Provides vascularized environment for cells
- Survive for long periods of time – creating an organ-like environment
- Strong patent portfolio and IP
- Scalable, retrievable
- Phase 1 / 2 clinical data in-hand



E.iBETA

- iPSC-based islet-like clusters mimicking human islet cells
- Includes insulin producing beta cells but also other hormone producing cell types (e.g. glucagon, somatostatin)
- Long-term function in rodent models of diabetes demonstrated
- Scalable manufacturing



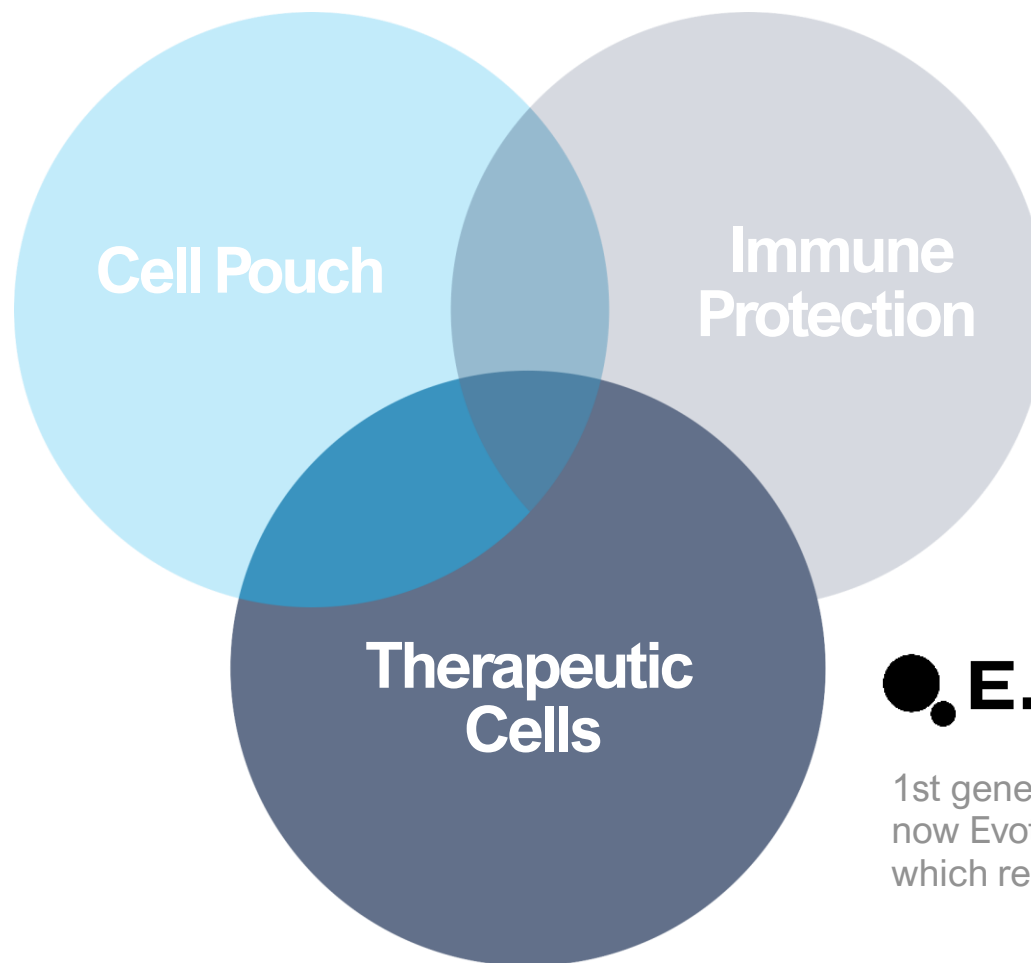
Creating an off-the-shelf iPSC-based beta cell replacement therapy as a potential 'functional cure' for insulin-dependent diabetes

Platform Approach: Finding 'Functional Cure' for Chronic Diseases

Integrated Regenerative Medicine Solution for Treatment of Chronic Diseases

Cell Pouch

Proprietary scalable, implantable medical device that provides vascularized environment for therapeutic cells to survive for long periods of time – creating an organ-like environment



Immune Protection

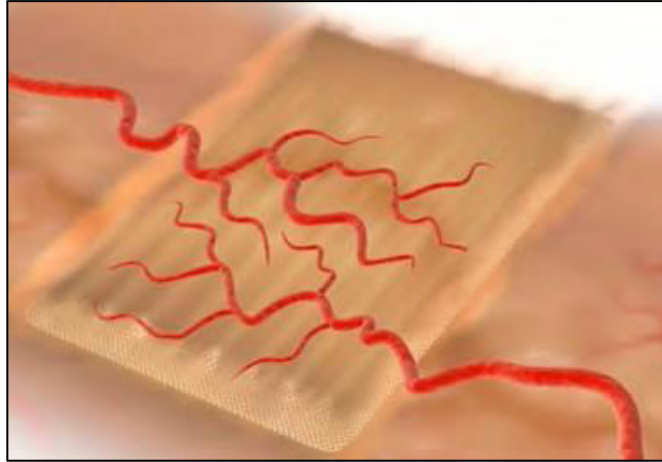
Conformal coating technologies protect therapeutic cells from immune system attack – reducing or eliminating need for immunosuppressives

E.iBETA

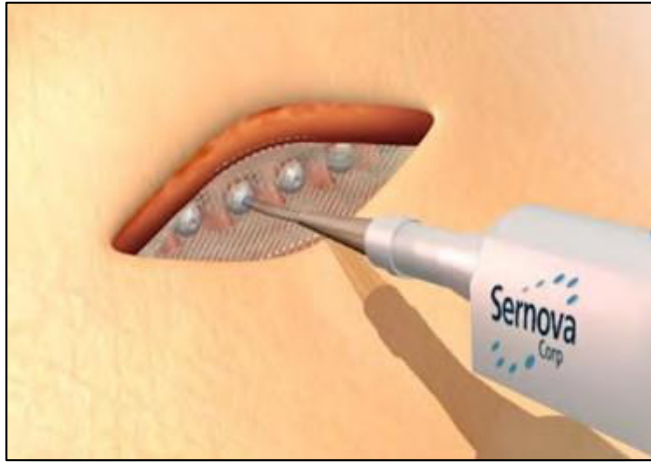
1st generation human donor islets and now Evotec iPSC-based islet-like clusters which regulate blood glucose levels

Cell Pouch Containing Therapeutic Cells

Biologically compatible delivery process – allows natural vascularization



Proprietary Cell Pouch is placed deep under the skin, allowing for vascularization & creating a natural environment for long-term function of therapeutic cells



Therapeutic cells are transplanted directly into the vascularized tissue chambers of the proprietary Cell Pouch



Therapeutic cells are responsive to endogenous regulation and release missing proteins or hormones into the bloodstream to correct biological dysfunction

- GMP manufacturing of Cell Pouch is performed by an FDA-inspected US-based contract manufacturer
- All Cell Pouch configurations are produced in a Class VII Clean Room
- Product and process development is conducted in accordance with manufacturer's inspected and certified Quality System
 - Established 2-year shelf-life based on real-time stability testing
 - Package integrity and ship testing completed

- ✓ ISO 13485
- ✓ EU Medical Devices Regulation MDR 2017/745
- ✓ US FDA Quality System Regulations (QSR) 21 CFR 820
- ✓ Canadian Medical Device Regulation (CMDR)



Manufactured GMP in a clean



Cell Pouch™ Packaged Ready for Clinical Trials



Package Integrity testing completed



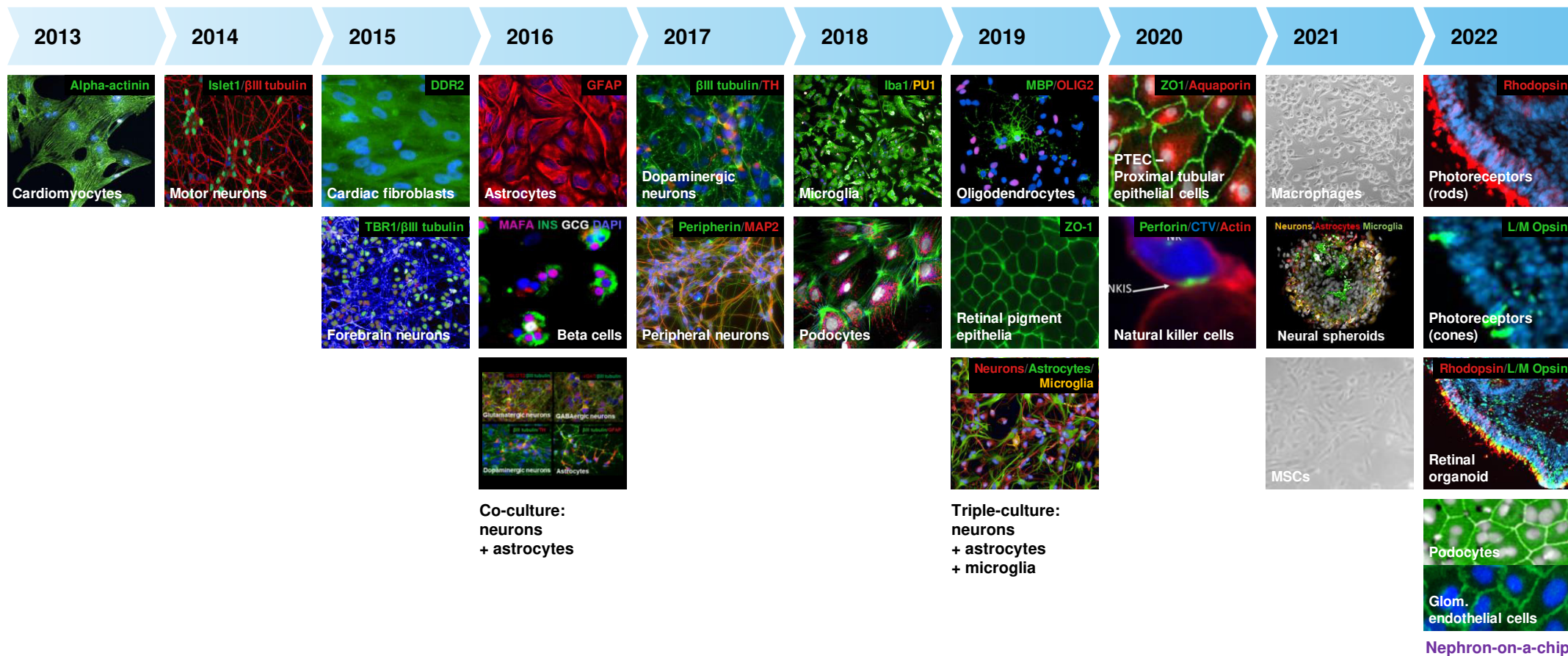
Ship testing completed

Best-in-class, off-the-shelf human beta cells replacement therapy

iPSC-based human beta cells in unlimited supply

World-leader in industrialized production of iPSC-based cells

>15 cell types, co-cultures and organoids established



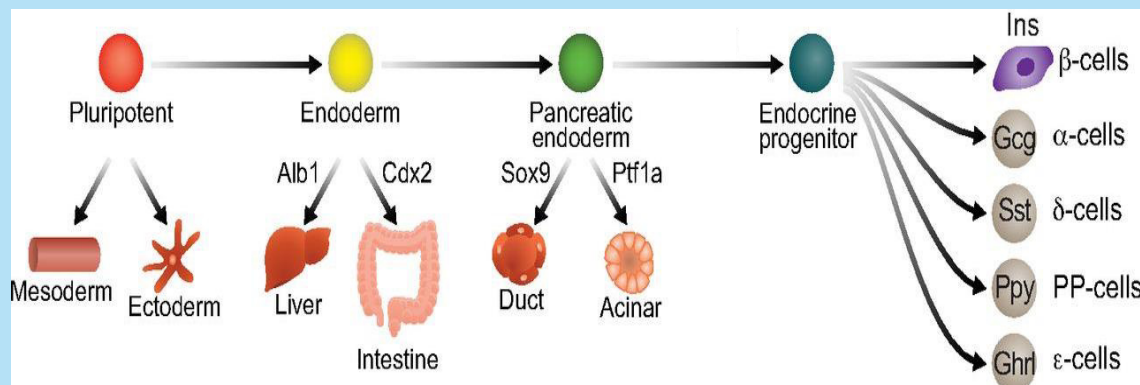
What is next?

- T-cells
- Skeletal muscle
- Hepatocytes
- Liver organoids
- Brain organoids

Proprietary production processes for human iPSC

Industrialized and scalable iPSC differentiation

Generation of E.iBeta

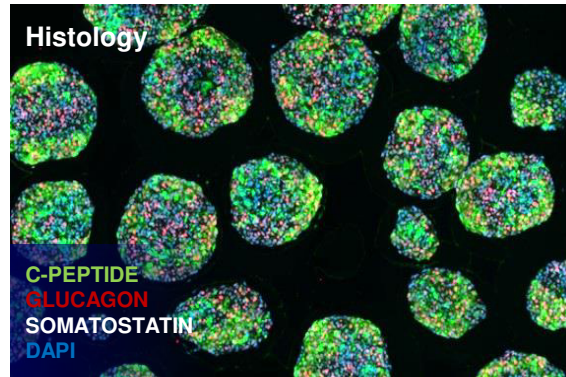
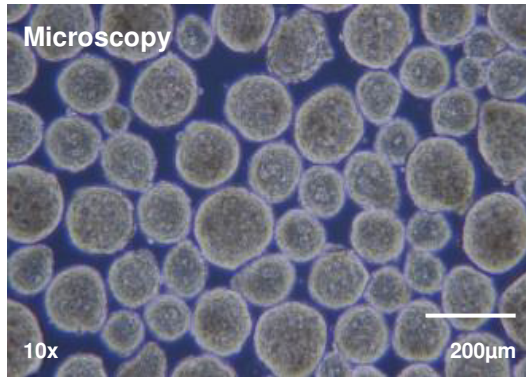


- Cell therapies can deliver ‘functional cures’ to patients
- Supplying an unlimited quantity of high-quality cells at low cost are the major obstacles to bring cell therapies to market
- Evotec is a leader in producing iPSC-based cell types and organoids at highest quality and industrial scale
- One of the largest iPSC groups in the industry with >100 people dedicated to developing iPSC-based cells for drug discovery and cell therapy
- Intricate know-how of developmental biology
- Focus on industrialization, robustness, scalability, GMP compatibility and QC

E.iBETA deliver long-term efficacy in preclinical models

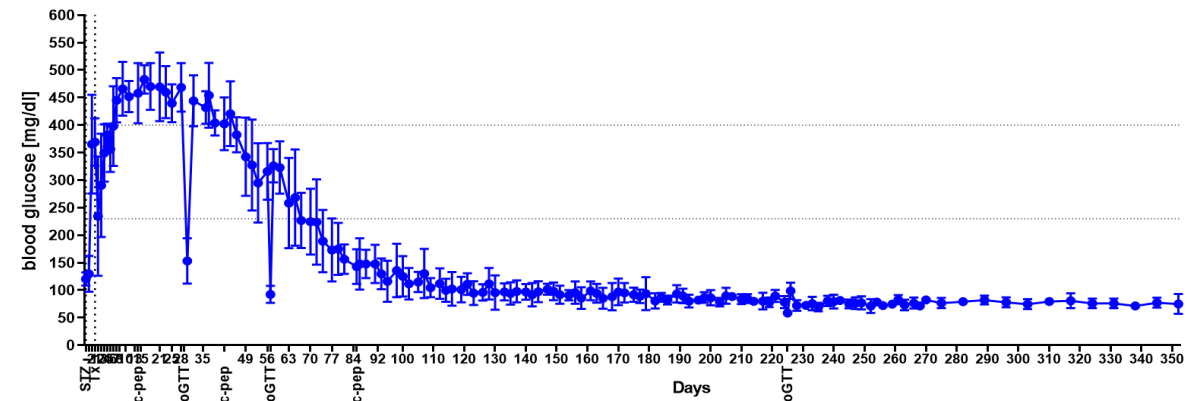
Cell composition and quality coupled with process robustness is key for success

E.iBeta generated from a GMP iPSC line in bioreactor



- Optimal cell composition
- Pharmaceutical quality
- Translation into GMP manufacturing

Long-term normalization of blood glucose in diabetic mice following **E.iBeta** transplantation



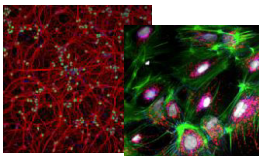
- Long-term stable glucose control demonstrated in diabetic mice for almost 1-year post-transplantation
- Equipotent to human primary islets (data not shown)
- Physiological regulation - no hypoglycemia observed

Delivering off-the-shelf cell therapy products to patients

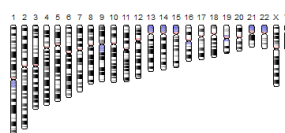
EVOcells – A world-class end-to-end infrastructure



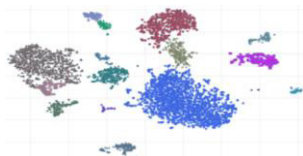
iPSC-based cell types



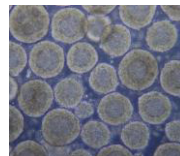
ArrayCGH, karyotyping, WGS



Single cell sequencing



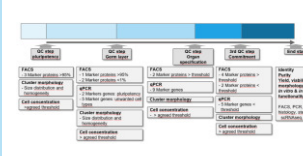
3D expansion



Upscaling



Cell QC



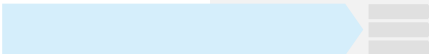

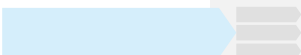

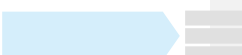








GMP production



- **E.iBeta** on the way to clinical testing
- Highly skilled teams working on all aspects of developing iPSC-based beta cells for clinical application
- Reproducible and GMP-compatible production of **E.iBeta** batches derived from GMP-grade iPSCs

Building a pipeline in iPSC-based cell therapies

Evotec's internal off-the-shelf cell therapy programs

Field	Program / Project	Disease area	Exploratory	Pre-clinical research	Pre-clinical development	IND / Phase 1
Anti-tumour cell therapy	iNK	IO ¹				
	iM	IO				
	γδ iT	IO				
	αβ iT	IO				
Regenerative therapy	 E.IBETA Sernova Cell Pouch™	Diabetes				
	iCM	Heart failure				
Immune-modulation	iMSCs, iMSC exosomes	Various				
	iNK, iTreg	Anti-fibrotic, auto-immune				

iPSC-based cell types

iNK	Natural killer cells
iT	ab and gd T cells
iM	Macrophages
iBeta	Pancreatic islets
iCM	Cardiomyocytes
iMSC	Mesenchymal stromal cells

Highlights of Sernova-Evotec Licensing Transaction

- **Combining Evotec's iPSC technology with Sernova's Cell Pouch System™ will immediately put Sernova at the forefront to find a 'functional cure' for insulin-dependent diabetes**
- **E.iBeta + Cell Pouch System = Best-in-Class beta cell therapy for insulin-dependent diabetes**
 - Supply of **E.iBeta** removes limitations of using human donor islets
 - Cost sharing arrangement for development up to IND
 - Evotec has an option for joint funding of clinical development with profit-sharing participation upon commercialization
- **Sernova now has an unlimited supply of highly ethical E.iBeta, which can be transplanted into patients using the Sernova Cell Pouch System**
- **Evotec equity investment of CAD \$27M / € 20M**
 - Evotec and Sernova become strategic partners in regenerative medicine cell therapy
 - Potential to expand beyond diabetes

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