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Article

Pharmacological Inhibition of NOX4 Improves Mitochondrial Function and Survival in Human Beta-Cells

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Supplemental Table S1. Information on human islet organ donors used for human islet isolation.

Islet preparation	1	2	3	4	5	6
Unique identifier	H2491	H2494	H2496	H2512	H2516	H2517
Donor age (years)	71	81	73	56	55	51
Donor sex (M/F)	M	F	M	F	M	F
Donor BMI (kg/m^2)	22,4	21,1	23,2	24,6	22,4	28,1
Donor HbA_{1c} (mmol/mol)	41	34	38	40	36	35
Origin/source of islets	ECIT	ECIT	ECIT	ECIT	ECIT	ECIT
Islet isolation centre	Uppsala	Uppsala	Uppsala	Uppsala	Uppsala	Uppsala
Donor history of diabetes? Please select yes/no from drop down list	No	No	No	No	No	No
Donor cause of death	Not known	Not known	Not known	Not known	Not known	Not known
Warm ischaemia time (h)	Not known	Not known	Not known	Not known	Not known	Not known
Cold ischaemia time (h)	21:52	Not known	13:35	21:54	8:57	11:37
Estimated purity (%)	Not determined	69	98	95	77	69
Estimated viability (%)	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined
Total culture time	All less than 5 days	All less than 5 days	All less than 5 days	All less than 5 days	All less than 5 days	All less than 5 days
Glucose-stimulated insulin secretion	2,2	8,9	4,4	7,9	10,0	17,7

(ratio 17 mM/1.7 mM glucose)						
Handpicked to purity?	Yes	Yes	Yes	Yes	Yes	Yes

ECIT stands for European Consortium for Islet Transplantation (https://ecit.dri-sanraffaele.org).

Supplemental Figure S1. NOX4 inhibition does not affect human islet proton leak (upper panel) or human islet extracellular acidification rate (ECAR)(lower panel). Human islets were analyzed as given in Figure 1.