

Checklist for Reporting Human Islet Preparations Used in Research

Adapted from Hart NJ, Powers AC (2018) Progress, challenges, and suggestions for using human islets to understand islet biology and human diabetes. Diabetologia <https://doi.org/10.1007/s00125-018-4772-2>.

Manuscript DOI: https://doi.org/10.2337/[DB21-0681] (Example, https://doi.org/10.2337/db18-1234)	
Title: DOC2b Boosts β -Cell Function Via A Novel Tyrosine Phosphorylation Dependent Mechanism	
Author list: Diti Chatterjee Bhowmick, Arianne Aslamy, Supriyo Bhattacharya, Eunjin Oh, Miwon Ahn, and Debbie C. Thurmond	
Corresponding author: Debbie C. Thurmond	Email address: dthurmond@coh.org

Islet preparation	1	2	3	4	5	6	7	8 ^a
MANDATORY INFORMATION								
Unique identifier	RRID:SAMN16427178 (HU1205)	RRID:SAMN17367763	RRID:SAMN18196260	RRID: SAMN21399152	RRID: SAMN22814513	RRID: SAMN22818629	HU1232	
Donor age (years)	42 Years	56.00 Years	41.00 Years	29 Years	26 Years	45 Years	45 Years	
Donor sex (M/F)	Female	Male	Female	Male	Male	Female	Female	
Donor BMI (kg/m ²)	31.2	33.00	28.00	22.9	29.2	21.7	25.2	

Donor HbA _{1c} or other measure of blood glucose control	HbA _{1c} : 5.5%	HbA _{1c} : 5.3%	HbA _{1c} : 5.3%	HbA _{1c} : 5.3%	HbA _{1c} : 5.4%	HbA _{1c} : 5.5%	HbA _{1c} : 4.9%	
Origin/source of islets ^b	Southern California Islet cell resource Center	The Scharp-Lacy Research Institute	The Scharp-Lacy Research Institute	The Scharp-Lacy Research Institute	Southern California Islet cell resource Center	University of Pennsylvania	Southern California Islet cell resource Center	
Islet isolation centre	Southern California Islet cell resource Center	The Scharp-Lacy Research Institute	The Scharp-Lacy Research Institute	The Scharp-Lacy Research Institute	Southern California Islet cell resource Center	University of Pennsylvania	Southern California Islet cell resource Center	
Donor history of diabetes? Yes/No	No	No	No	No	No	No	No	
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)								
Glucose-lowering therapy at time of death ^c								

RECOMMENDED INFORMATION

Donor cause of death	Cerebrovascular/Stroke	Head trauma	Cerebrovascular/stroke	Anoxia	Head trauma	Anoxia	Anoxia	
Warm ischaemia time (h)								
Cold ischaemia time (h)	403 minutes	656 minutes	417 minutes			943 minutes	9.65 hours	
Estimated purity (%)	80%	90%	95%	95%	75%	90%	90%	
Estimated viability (%)	96%	95%	95%	95%	95%	94%		
Total culture time (h) ^d		2 days 19.00 hours	4 days 16.00 hours	4 days 5 hours		2 days 20 hours	92.5 hours	
Glucose-stimulated insulin secretion or other functional measurement ^e	Glucose-stimulated insulin release stimulation (SI): 20	Glucose-stimulated insulin release stimulation (SI): 1.5	Glucose-stimulated insulin release stimulation (SI): 2.3	Glucose-stimulated insulin release stimulation (SI): 2.5	Glucose-stimulated insulin release stimulation (SI): 3.2	Glucose-stimulated insulin release stimulation (SI): 1.7		
Handpicked to purity? Yes/No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Additional notes	We directly picked up the islets, as we are located in the same building with the Southern California Islet cell resource Center.				We directly picked up the islets, as we are located in the same building with the		We directly picked up the islets, as we are located in the same building with the	

					Southern California Islet cell resource Center.			
--	--	--	--	--	---	--	--	--

^aIf you have used more than eight islet preparations, please complete additional forms as necessary

^bFor example, IIDP, ECIT, Alberta IsletCore

^cPlease specify the therapy/therapies

^dTime of islet culture at the isolation centre, during shipment and at the receiving laboratory

^ePlease specify the test and the results