Apr 18, 2024 Version 2

Donor Case Selection | HuBMAP | JHU-TMC V.2

DOI
https://dx.doi.org/10.17504/protocols.io.dm6gpz8e1lzp/v2

Kyu Sang Han[1], Joel Sunshine[2], Sashank Reddy[2], Denis Wirtz[1,2], Pei-Hsun Wu[1]

[1]Johns Hopkins University; [2]Johns Hopkins Medicine

Human BioMolecular Atlas Program (HuBMAP) Method Development Community
Tech. support email: **Jeff.spraggins@vanderbilt.edu**

Kyu Sang Han
Johns Hopkins University

DOI: https://dx.doi.org/10.17504/protocols.io.dm6gpz8e1lzp/v2

Protocol Citation: Kyu Sang Han, Joel Sunshine, Sashank Reddy, Denis Wirtz, Pei-Hsun Wu 2024. Donor Case Selection | HuBMAP | JHU-TMC. **protocols.io** https://dx.doi.org/10.17504/protocols.io.dm6gpz8e1lzp/v2Version created by **Kyu Sang Han**

Manuscript citation:
A.M. Braxton, A.L. Kiemen, M.P. Grahn, A. Forjaz, J. Parksong, J.M. Babu, J. Lai, L. Zheng, N. Niknafs, L. Jiang, H. Cheng, Q. Song, R. Reichel, S. Graham, A.I. Damanakis, C.G. Fischer, S. Mou, C. Metz, J. Granger, X.-D. Liu, N. Bachmann, Y. Zhu, Y.Z. Liu, C. Almagro-Pérez, A.C. Jiang, J. Yoo, B. Kim, S. Du, E. Foster, J.Y. Hsu, P.A. Rivera, L.C. Chu, D. Liu, E.K. Fishman, A. Yuille, N.J. Roberts, E.D. Thompson, R.B. Scharpf, T.C. Cornish, Y. Jiao, R. Karchin, R.H. Hruban, P.-H. Wu, D. Wirtz, and L.D. Wood, "3D genomic mapping reveals multifocality of human pancreatic precancers", Nature (2024)

A.L. Kiemen, A. Forjaz, R. Sousa, K. Sang Han, R.H. Hruban, L.D. Wood, P.H. Wu, and D. Wirtz, "High-resolution 3D printing of pancreatic ductal microanatomy enabled by serial histology", Advanced Materials Technologies 9, 2301837 (2024)

T. Yoshizawa, J. W. Lee, S.-M. Hong, D.J. Jung, M. Noe, W. Sbijewski, A. Kiemen, P.H, Wu, D. Wirtz, R.H. Hruban, L.D. Wood, and K. Oshima. "Three-dimensional analysis of ductular reactions and their correlation with liver regeneration and fibrosis", Virchows Archiv (2023).

A.L. Kiemen, A.I. Damanakis, A.M. Braxton, J. He, D. Laheru, E.K. Fishman, P. Chames, C. Almagro Perez, P.-H. Wu, D. Wirtz, L.D. Wood, and R. Hruban, "Tissue clearing and 3D reconstruction of digitized, serially sectioned slides provide novel insights into pancreatic cancer", Med 4, 75-91 (2023)

A. Kiemen, Y. Choi, A. Braxton, C. Almagro Perez, S. Graham, M. Grahm, N., N. Roberts, L. Wood, P. Wu, R. Hruban, and D. Wirtz, "Intraparenchymal metastases as a cause for local recurrence of pancreatic cancer", Histopathology 82: 504-506 (2022)

A.L. Kiemen, A.M. Braxton, M.P. Grahn, K.S. Han, J.M. Babu, R. Reichel, A.C. Jiang, B. Kim, J. Hsu, F. Amoa, S. Reddy, S.-M. Hong, T.C. Cornish, E.D. Thompson, P. Huang, L.D. Wood, R.H. Hruban, D. Wirtz and P.H. Wu, "CODA: quantitative 3D reconstruction of large tissues at cellular resolution", Nature Methods 19: 1490-1499 (2022)

K.S.Han, I. Sander, J. Kumer, E. Resnick, C. Booth, B. Starich, J. Walston, A.L. Kiemen, S. Reddy, C. Joshu, J. Sunshine, D. Wirtz, P.-H. Wu "The microanatomy of human skin in aging." bioRxiv (2024): 2024-04.

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

Created: April 18, 2024

Last Modified: April 18, 2024

Protocol Integer ID: 98449

Keywords: hubmap, donor, selection, histology, digitalpathology, ai, machinelearning, tmc donor case selection protocol, criteria for human tissue biopsy collection, human tissue biopsy collection, human tissue biopsy, johns hopkins tmc, tmc, tissue

Funders Acknowledgements:
Institute of Arthritis and Musculoskeletal and Skin Diseases
Grant ID: U54AR081774
National Cancer Institute
Grant ID: U54CA143868

Abstract

Donor case selection protocol for Johns Hopkins TMC describes criteria for human tissue biopsy collection.

Before start

Patient samples are obtained from skin that is to be discarded from patients presenting for reconstructive or aesthetic procedures necessitating skin excision. No other procedures or follow-up is needed for research purposes.

Inclusion

1 Age 18-35 or 50 and over
English Speaking
Able to provide consent
Undergoing reconstructive or aesthetic procedures necessitating skin excision at the scalp or abdomen

Exclusion

2 Known collagen disorder
Strong personal history of keloid formation
Deemed unfit for general anesthesia
Active infection of skin where samples may be taken