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Donor eligibility Criteria for Human Liver for HuBMAP TTD-Columbia/PSU

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This documents outline the criteria for human liver tissue donor eligibility for the Hubmap BioMolecular Atlas Program (HuBMAP), Transformative Technology Development (TTD) Center at Columbia University/Pennsylvania State University. Samples include those from liver resections/biopsies/transplantation. Donor eligibility, consent for tissue donation, documentation on donor medical history and sample storage is performed by the Columbia University Biobank.

Presha Rajbhandari, Hua Tian, Helen Remotti, Brent Stockwell, bs 2022. Donor eligibility Criteria for Human Liver for HuBMAP TTD-Columbia/PSU.

protocols.io

<https://protocols.io/view/donor-eligibility-criteria-for-human-liver-for-hub-b8e2rtge>



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Apr 28, 2022

Apr 28, 2022

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Inclusion criteria for Donor:

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- Age range >18
- BMI <29
- All race, ethnicity and gender (equal male and female) are accepted
- Negative for HIV, Hepatitis B or C virus, CMV or EBV, COVID-19, sepsis

-Negative for liver diseases including fatty liver disease, hepatocellular carcinoma, and diabetes

Sample:

- 2
 - Visual inspection of liver for any abnormalities
 - Site of tissue far from benign lesions for resection cases
 - If available, recover at least 1cm x 1cm x 1cm of liver and flash freeze as quickly as possible on dry ice /isopentane slurry (without OCT) and store at -80C
 - Warm ischemia time <30 minutes and/or cold ischemia time < 2 hours
 - Normal histology and tissue quality assessed by hematoxylin and eosin staining by expert pathologist

Sample information:

- 3 The metadata related to the sample to include:
 - Pathogenesis/diagnosis for resected tissue or donor cause of death
 - Donor age
 - Demographics
 - Medications and dose
 - Serological test results including HepB, HepC, HIV, CMV, EBV
 - Past medical history
 - Smoking/Drug use/Alcohol use
 - Time from brain death, if deceased liver donors