

- **Name:** Oscar Brück

- **Affiliation/Current Position:**

Clinical scientist, Helsinki University Hospital, Comprehensive Cancer Center,
Department of Hematology
Development manager, Helsinki University Hospital, Data Administration

- **Country:** Finland

- **ICKSH2022 Presentation Title:** Computer Vision in Hematological Malignancies

- **Educational Background:** MD 2016 (University of Helsinki), PhD 2021 (University of Helsinki)

- **Professional Experiences:**

- 01/2018 –

Clinical scientist, Helsinki University Hospital, Department of Hematology
Development manager, Helsinki University, Hospital Data Administration
Development and maintenance of the Hematology Datalake and clinical data analytics & Development of computer vision algorithms

- 10/2014 – 12/2021

PhD thesis in leukemia immunology, supervisor Prof. Mustjoki
Hematology Research Unit Helsinki, University of Helsinki and Helsinki University Hospital Comprehensive Cancer Center

- 02/2018 – 08/2018

General Practitioner, Southern Savonia Hospital District

- 05/2014 –

Emergency physician, Helsinki University Hospital

- 07/2014 – 08/2014

Research Rotation in Prof. Lundin Lab, University of Helsinki

- 05/2011 – 08/2012
Research Assistant in Prof. Kallioniemi Lab, University of Helsinki
Pro Gradu thesis "The Molecular Mechanisms of Tamoxifen Resistance in Breast Cancer"

- **Professional Organizations:** Helsinki University Hospital

- **Main Scientific Publications:**

Brück O., Lallukka-Brück S., Hohtari H., Ianevski A., Ebeling F., Kovanen P., Kytölä S., Aittokallio T., Marques Ramos P., Porkka K. and Mustjoki S.

Machine Learning of Bone Marrow Histopathology Identifies Genetic and Clinical Determinants in MDS Patients

Blood Cancer Discov. 2:1–12, 2021

Brück O, Dufva O, Hohtari H, Blom S, Turkki R, Ilander M, Kovanen P, Pallaud C, Ramos PM, Lähteenmäki H, Välimäki H, El Missiry M, Ribeiro A, Kallioniemi O, Porkka K, Pellinen T, Mustjoki S.

Immune Profiles in the Acute Myeloid Leukemia Bone Marrow Associate with Patient Age, TCR Clonality and Survival

Blood Adv. 4 (2): 274–286, 2020

Brück O*, Hohtari H*, Blom S, Turkki R, Sinisalo M, Kovanen PE, Kallioniemi O, Pellinen T, Porkka K, Mustjoki S.

Immune cell constitution in bone marrow microenvironment predicts outcome in adult ALL.

Leukemia. 33(7):1570-1582, 2019

*shared authorship

Brück O, Blom S, Dufva O, Turkki R, Chheda H, Ribeiro A, Kovanen P, Aittokallio T, Koskenvesa P, Kallioniemi O, Porkka K, Pellinen T, Mustjoki S.

Immune cell contexture in the bone marrow tumor microenvironment impacts therapy response in CML.

Leukemia. 32(7):1643-1656, 2018

Dufva O, Pölönen P, Brück O, Keränen MAI, Klievink J, Mehtonen J, Huuhtanen J, Kumar A, Malani D, Siitonen S, Kankainen M, Ghimire B, Lahtela J, Mattila P, Vähä-Koskela M, Wennerberg K, Granberg K, Leivonen SK, Meriranta L, Heckman C, Leppä S, Nykter M, Lohi O, Heinäniemi M, Mustjoki S.

Immunogenomic Landscape of Hematological Malignancies.

Cancer Cell. 38(3), 380-399, 2020.