

Haematopoietic progenitor and lymphoid differentiation from human pluripotent stem cells

George Q. Daley (✉ george.daley@childrens.harvard.edu)

Stem Cell Program, Boston Children's Hospital, Boston, MA / Division of Hematology/Oncology, Boston Children's Hospital and Dana Farber Cancer Institute, Boston, MA / Harvard Medical School, Boston, MA / GQDaley Lab

Linda T. Vo

Stem Cell Program, Boston Children's Hospital, Boston, MA / Division of Hematology/Oncology, Boston Children's Hospital and Dana Farber Cancer Institute, Boston, MA / Harvard Medical School, Boston, MA

Sergei Doulatov

Division of Hematology, Department of Medicine, University of Washington, Seattle, WA

Method Article

Keywords: Haematopoietic progenitor and lymphoid differentiation from human pluripotent stem cells

Posted Date: January 17th, 2018

DOI: <https://doi.org/10.1038/protex.2017.160>

License: © ⓘ This work is licensed under a Creative Commons Attribution 4.0 International License.

[Read Full License](#)

Abstract

This protocol includes a step-by-step guide to haematopoietic progenitor differentiation, and T and B cell derivation from human pluripotent stem cells. Link to the Protocol: "Step-by-step guide":http://www.nature.com/protocolexchange/system/uploads/6281/original/Protocol_Exchange_-_Vo.docx?1513885899

Procedure

INCLUDED PROTOCOLS: 1) Differentiation of haematopoietic progenitors from human embryoid bodies \ (hEBs) 2) Lentiviral Infection of Human Embryoid Body-Derived Haematopoietic Progenitor Cells \ (hEB-HPCs) 3) Culturing Human Embryoid Body-Derived Haematopoietic Progenitor Cells \ (5F cells) 4) Differentiation of Human T cells on OP9-DL1 Stroma 5) Differentiation of Human B Cells on MS-5 Stroma Link to the Protocol: "Step-by-step guide":http://www.nature.com/protocolexchange/system/uploads/6281/original/Protocol_Exchange_-_Vo.docx?1513885899

Supplementary Files

This is a list of supplementary files associated with this preprint. Click to download.

- [supplement0.docx](#)