The department of Hematology has a job opening for a

Postdoctoral fellow

To study contributions of the hematopoietic stem cell niche to leukemogenesis

Fulltime

Project description
The Department of Hematology at the Erasmus Medical Center Cancer Institute runs an ambitious and internationally recognized research program in the field of bone marrow failure and leukemogenesis. The overall goal of our laboratory is to gain a better understanding of the cellular elements and molecular pathways driving leukemogenesis. Specifically, we aim to understand the interplay between the bone marrow microenvironment and hematopoietic cells in leukemia predisposition syndromes.

In previous work, we have revealed a concept of niche-driven leukemogenesis (Raaijmakers et al. Nature 2010) and began revealing the underlying mechanisms and its relevance for human diseases (Zambetti et al. Cell Stem Cell 2016).

The postdoctoral projects will focus on dissecting the role of inflammatory signaling in the stem cell niche in malignant transformation in the hematopoietic system. We will exploit mouse modeling and state-of-the art molecular tools (including CRISPR-CAS technology) and strive to translate insights to human disease, exploring therapeutic modalities aimed at targeting inflammatory niche signaling to treat bone marrow failure and attenuate leukemic evolution.

Work environment
Erasmus MC stands for a healthy population and excellence in healthcare. By conducting groundbreaking work, we aim to push boundaries through leading the way in research, education and healthcare. We have access to the latest equipment and techniques in a state-of-the-art environment.

The Department of Hematology hosts a highly interactive group of researchers and physicians with a common goal to conduct basic and translational research in the field of molecular aspects of bone marrow malignancies and to improve patient health. It accommodates a state of the art infrastructure for cell biological, genomic and clinically applied research.

Qualifications and skills
The position should appeal to most scientists who want to perform cutting edge basic/translational research applying in vitro and in vivo modeling with the ultimate goal to develop novel therapeutics. Furthermore the following skills and qualifications are required:
• Demonstrated track record in basic/translational research (at least one publication with impact).
• Expertise in hematology or stem cell biology.

• Profound hands-on experience in molecular biological assays and techniques (FACS, RNA/DNASeq, Crispr-Cas9).
• Solid hands-on experience in (hematological) mouse models (including bone marrow transplantation).
• Excellent oral and written communication skills in English.
• • Highly motivated and a team-player.

Being able to present a certificate of good conduct, a valid proof of identity, diploma's and/ or relevant registration such as BIG/ RGS are conditions for the appointment.

Terms of employment
The gross monthly salary amounts a minimum of € 2.659,- (scale 10) and a maximum of € 4.917,- (scale 11), depending on your level of education and relevant experience and based on a full-time working week of 36 hours. The terms of employment are in accordance with the Collective Bargaining Agreement for University Medical Centers (CAO UMC).

Information
For more information about this position, please contact the principal investigators:
Marc Raaijmakers, phone number: (+31)(10) 704 4723 or e-mail: m.h.g.raaijmakers@erasmusmc.nl

Application
Please send your application including Curriculum Vitae and accompanying letter by e-mail to: sollicitatie.danieldenhoed@erasmusmc.nl stating vacancy code 19.11.18.TDdH.