

Post-doc position

Anti-tumor immunity in tetraspanin-deficient mice

RIMLS

Radboud Institute for Molecular Life Sciences in the Netherlands is a leading European research school providing an outstanding research setting within the Radboud University Medical Center. The RIMLS focuses on basic science and its translation into pioneering treatments in the clinic. RIMLS innovations are advanced through technology platforms such as genomics, proteomics, and molecular imaging.

Department of Tumor Immunology

Research within the Department aims at a better understanding of our immune system using molecular-, cell biological- and immunological- techniques and is centered around antigen presenting dendritic cells which play an important role in regulating the immune response. An important activity of the Department is the translation of basic research into clinical application. In particular, research focusses on the development of novel dendritic cell based vaccines to treat cancer patients.

Tetraspanins: novel membrane organizers that regulate immune function

Tetraspanins belong to the transmembrane-4-superfamily that consists of small (20-50 kDa) transmembrane proteins that are abundantly expressed at the cell surface. Despite the importance of tetraspanins in the immune system, little is known about how tetraspanins control anti-tumor immune responses. We recently discovered that tetraspanin-deficiency leads to spontaneous lymphoma formation [de Winde et al. *JCI* 2016]. In this project we will study anti-tumor immunity in mice lacking multiple tetraspanins (CD37, CD53) combined with immunological in vitro studies. This project is supported through NWO (Vidi Grant).

Requirements

Candidates should have obtained a PhD degree in biology/immunology or equivalent, and the 'Article 9 certificate' for laboratory animal science.

In this project we will combine immunological (antigen presentation, tumor cytotoxicity assays, flow cytometry) with cell biological techniques (live cell imaging, signal transduction). An extensive immunological/cell biological background is therefore important.

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