



European Research Council
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Post-doc position

Novel immunotherapeutic targeting of hematological malignancies

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 dendritic cells which play an important role in regulating the immune response vital for combatting cancer. The Department combines fundamental research with translational research including different clinical trials of dendritic cell immunotherapy in cancer patients.

Tetraspanin CD37: novel target for lymphoma

Tetraspanins belong to the transmembrane-4-superfamily that consists of small (20-50 kDa) transmembrane proteins that are abundantly expressed at the cell surface. We discovered that the B cell-specific tetraspanin CD37 is a novel tumor suppressor in lymphoma [de Winde *et al. J. Clin. Invest.* 2016, Xu-Monette *et al. Blood* 2016]. Targeting CD37 is currently under clinical investigation in patients with aggressive lymphomas [de Winde *et al. Trends in Cancer* 2017]. In this project, we will study novel CD37 antibodies (“hexabodies”) in their cytotoxic capacity in human lymphomas. Secondly, we aim to identify the underlying molecular mechanism by investigating downstream signaling and CD37 organization at the cell surface of lymphomas using advanced microscopy techniques. This project is supported through the ERC (Consolidator Grant) and in collaboration with Genmab.

Requirements

Candidates should have obtained a PhD degree in biology/immunology or equivalent. 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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