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The ins and outs of ligand binding to CCR2

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List of publications

Vilums M, Zweemer AJM, Dekkers S, Askar Y, de Vries H, Saunders J, Stamos D, Brussee J, Heitman LH, IJzerman AP. *Design and Synthesis of Novel Small Molecule CCR2 Antagonists: Evaluation of 4-Aminopiperidine Derivatives*. Manuscript in preparation.

Vilums M, Zweemer AJM, Barmare F, van der Gracht AMF, Bleeker DCT, Yu Z, de Vries H, Gross R, Clemens J, Krenitsky P, Brussee J, Stamos D, Saunders J, Heitman LH, IJzerman AP. *When Structure–Affinity Relationships Meet Structure–Kinetics Relationships: 3-((Inden-1-yl)amino)-1-isopropyl-cyclopentane-1-carboxamides as CCR2 Antagonist*. Manuscript in preparation.

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Zweemer AJM, Bunnik J, Veenhuizen M, Miraglia F, Lenselink EB, Vilums M, de Vries H, Gibert A, Thiele S, Rosenkilde MM, IJzerman AP, Heitman LH. *Discovery and mapping of an intracellular antagonist binding site at the chemokine receptor CCR2*, Mol Pharmacol, 86(4), 2014, 358-368.

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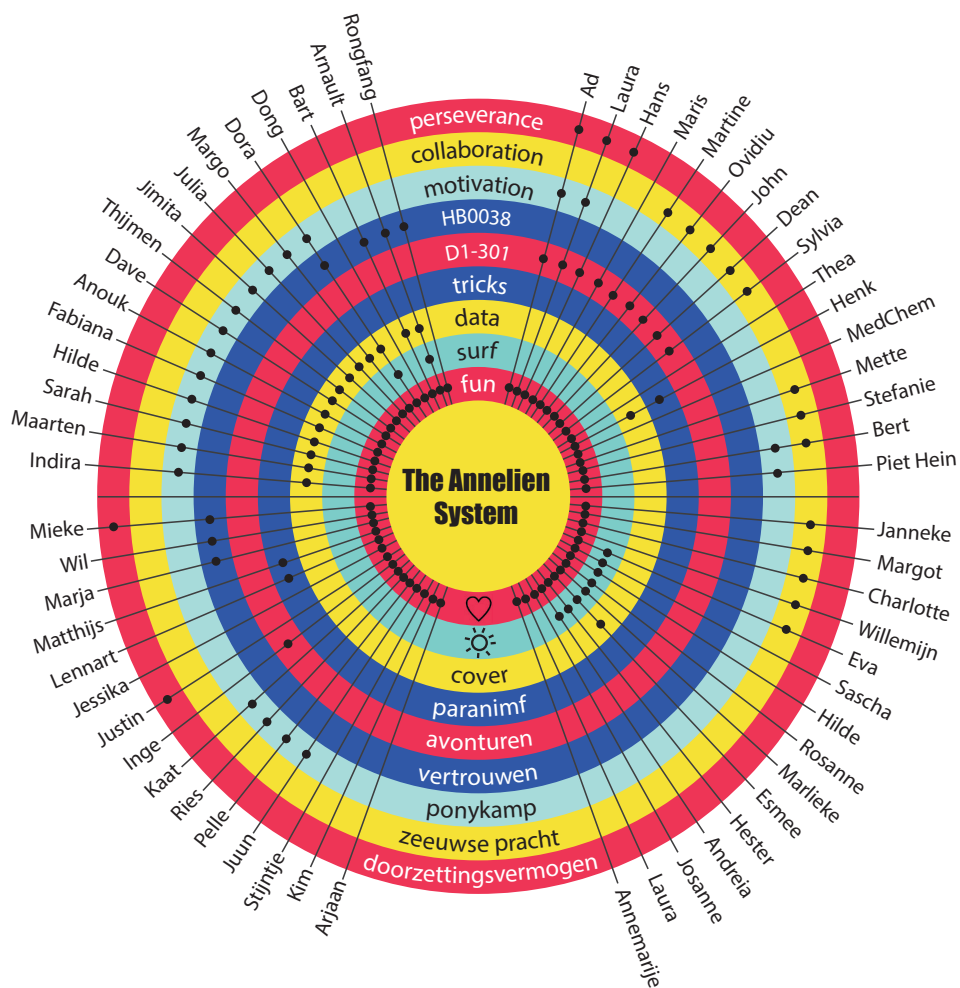
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Curriculum Vitae

Annelien Zweemer was born in Goes, the Netherlands, on September 8th 1985. After graduating from high school at the Pontes College in Goes, she moved to Leiden in 2003 to study Bio-Pharmaceutical Sciences at Leiden University. During her degree she performed two research internships at the Division of Medicinal Chemistry, under supervision of Dr. Laura Heitman and Prof. Ad IJzerman. Her work on allosteric modulators for the adenosine A₃ receptor was awarded the Suzanne Hovinga award for the best thesis of Bio-Pharmaceutical and Biomedical Sciences at Leiden University in 2008. Subsequently she moved to Edinburgh, UK, to perform a third internship at the Breakthrough Breast Cancer Research Unit under supervision of Dr. Simon Langdon. She studied the effect of antibody therapy for ovarian cancer, and was awarded the S.E. De Jong prize for the best thesis in Pharmacology at Leiden University in 2009. In that same year she finished her MSc. degree *cum laude*.

In 2010, Annelien started her PhD study at Leiden University within the Division of Medicinal Chemistry, under supervision of Dr. Laura Heitman and Prof. Ad IJzerman. This research was part of the TI-Pharma initiative “Target residence time in translational drug research: the CCR2 chemokine receptor as a case in point” (Project number D1-301), in collaboration with Vertex Pharmaceuticals (San Diego, CA, USA) and the Vrije Universiteit Amsterdam (Amsterdam, The Netherlands). Throughout her PhD studies she presented work described in this thesis at numerous national and international conferences. In 2010 she won the NVF presentation award at the FIGON Dutch Medicines Days in Lunteren. In 2013 she was awarded the 1st poster prize at the LACDR Spring Symposium in Leiden, the 1st poster prize at the TI Pharma Spring Symposium in Utrecht and the 3rd poster prize during the FIGON Dutch Medicine Days in Ede. Annelien is currently working as a postdoctoral researcher in the department of Biological Engineering, headed by Prof. Douglas Lauffenburger, at Massachusetts Institute of Technology in Cambridge, MA.

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