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## **Mast cells as immune regulators in atherosclerosis**

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# Publications

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## Papers & abstracts:

Kritikou E, van der Heijden T, Swart M, van Duijn J, Slütter B, Smeets HJ, Maffia P, Kuiper J, Bot I. *Hypercholesterolemia induces a direct interaction between mast cells and CD4<sup>+</sup> T-cells in atherosclerosis*. *Atherosclerosis* 2017; 263:e124 (published abstract)

Kritikou E, van Puijvelde GHM, van der Heijden T, van Santbrink PJ, Swart M, Schaftenaar FH, Kröner MJ, Kuiper J, Bot I. *Inhibition of lysophosphatidic acid receptors 1 and 3 attenuates atherosclerosis development in LDL-receptor deficient mice*. *Sci Rep*. 2016; 6:37585

Kritikou E, Kuiper J, Kovanen PT, Bot I. *The impact of mast cells on cardiovascular diseases*. *Eur J Pharmacol*. 2016; 778:103-15

Kritikou E, van der Heijden T, Swart M, van Duijn J, Slütter B, Wezel A, Smeets HJ, Maffia P, Kuiper J, Bot I. *Hypercholesterolemia induces a direct interaction between mast cells and CD4<sup>+</sup> T-cells in atherosclerosis*. (manuscript submitted for publication)

Kritikou E, van Duijn J, Nahon J, van der Heijden T, Bouwman M, Groeneveldt C, Schaftenaar FH, Kröner MJ, Kuiper J, van Puijvelde GHM, Bot I. *Disruption of a CD1d-mediated interaction between mast cells and NKT cells aggravates atherosclerosis*. (manuscript submitted for publication)

Kritikou E, Schaftenaar FH, van der Heijden T, van Puijvelde GH, Nahon J, van Duijn, Kröner MJ, Yagita H, Kuiper J, Foks A, Bot I. *The role of CD48 in atherosclerosis*. (manuscript in preparation)

Kritikou E, van der Heijden T, van Puijvelde GHM, Swart M, Kröner MJ, Kuiper J, Bot I. *Mast cell depletion in advanced atherosclerosis does not induce plaque regression* (manuscript in preparation)

Kritikou E, Slütter B, van Duijn J, Foks A, van der Heijden T, Wezel A, Smeets HJ, Kuiper J, Bot I. *Phenotypic characterization of human intraplaque mast cells using flow cytometry* (manuscript in preparation)

van Duijn J, Kritikou E, Benne N, van der Heijden T, van de Puijvelde GHM, Kröner MJ, Schaftenaar FH, Foks A, Wezel A, Smeets HJ, Yagita H, Bot I, Jiskoot W, Kuiper J, Slütter B. *CD8<sup>+</sup> T-cells contribute to lesion stabilization in advanced atherosclerosis by limiting macrophage content and CD4<sup>+</sup> T-cell responses* (manuscript submitted for publication)

van der Heijden T, [Kritikou E](#), Venema W, van Duijn J, van Santbrink PJ, Slütter B, Foks A, Bot I, Kuiper J. *NLRP3 inflammasome inhibition by MCC950 reduces atherosclerotic lesion development in apoE deficient mice. Arterioscler. Thromb. Vasc. Biol.* 2017; 37(8):1457-1461.

Punt S, Fleuren GJ, [Kritikou E](#), Lubberts E, Trimpos JB, Jordanova ES, Gorter A. *Angels and demons: Th17 cells represent a beneficial response, while neutrophil IL-17 is associated with poor prognosis in squamous cervical cancer. Oncoimmunology*, 2015; 4(1):e9845349

Punt S, Houwing JJ, Schulkens IA, Thijssen VL, Osse EM, [Kritikou E](#), de Kroon CD, Griffioen AW, Fleuren GJ, Gorter A, Jordanova E. *A high IL6/IL17 ratio combined with low IL5 expression is correlated with poor survival in squamous cervical cancer. Journal for ImmunoTherapy of Cancer* 2014; 2(Suppl 3):P232 (published abstract)

Spella M, Kyrousi C, [Kritikou E](#), Stathopoulou A, Guillemot F, Kioussis D, Pachnis V, Lygerou Z, and Taraviras S. *Geminin regulates cortical progenitor proliferation and differentiation. Stem Cells*, 2011; (8):1269-82

### **(Inter)national Presentations:**

- 2017: BPS Master's symposium – LACDR, Leiden, The Netherlands  
(oral presentation)
- Gordon Research Conference-Atherosclerosis, Sunday River, ME, USA  
(poster presentation)
- Gordon Research Seminar –Atherosclerosis  
(oral presentation)
- LACDR Spring Symposium, Leiden, The Netherlands  
(poster presentation & prize winner)
- European Atherosclerosis Society congress, Prague, Czech Republic  
(travel grant award & poster presentation)
- 2016: IVBM-NAVBO meeting, Boston, MA, USA  
(poster presentation)
- 2015: NVVI-Dutch Society for Immunology, Noordwijkerhout, The Netherlands  
(poster presentation)
- 6<sup>th</sup> Rembrandt Symposium, Noordwijkerhout, The Netherlands  
(poster presentation)
- Leiden Vascular Medicine meeting, Leiden, The Netherlands  
(oral presentation)
- 2014: Scandinavian Society for Atherosclerosis, Humlebaek, Denmark  
(poster presentation)
- Leiden Vascular Medicine meeting, Leiden, The Netherlands  
(oral presentation)
- 5<sup>th</sup> Rembrandt Symposium, Noordwijkerhout, The Netherlands  
(poster presentation)

**Courses and training:**

Advanced Immunology (LIFI) course  
Dutch Society for Immunology annual symposium - Lunteren  
Atherothrombosis and Coagulation  
Clinical Research in practice  
Animal Handling course (Article 9-EU regulations)  
Bioinformatics  
Introductory Course on Drug Research  
How to write a research proposal  
Scientific Conduct  
Communication in Science  
Data management  
Introduction to teaching and supervision  
Press Release course  
Time management