Curriculum Vitae

Dr. rer. medic. Martina Maaß

Biologist

University hospital of Cologne
Department of Ophthalmology
Ocular Surface Group
Competence Center for Ocular GvHD
Kerpener Straße 62
D-50937 Cologne

Tel. (+49)-221-478 85632
Fax. (+49)-221-478 97836
Email: martina.maass@uk-koeln.de

Scientific career

2003	Diploma Biology, Martin-Luther-University Halle-Wittenberg
2009 – 2018	Scientist and PhD student, Department of Internal Medicine III, University Hospital of Cologne
since 2018	Scientist, Department of Ophthalmology, Ocular Surface Group, University Hospital of Cologne
2020	PhD, Department of Internal Medicine III, University Hospital of Cologne
since 2020	Affiliated Scientist of Project N1 “Lymph- and hemangiogenesis in ocular Graft-versus-Host Disease” of the DFG Research Unit FOR 2240 “Angiogenesis, Lymphangiogenesis and Cellular Immunity in Inflammatory Diseases of the Eye” at the Department of Ophthalmology, University of Cologne
since 2022	Senior Scientist of the Dry-Eye and ocular GVHD group

Prizes and honors

2023	Poster Prize, German Ophthalmological Society, Berlin

Selected publications

- Tran BN, **Maass M**, Musial G, Stern ME, Gehlsen U, Steven P. Topical application of cannabinoid-ligands ameliorates experimental dry-eye disease. Ocul Surf. 2022; 23: 131-139
- Guthoff H, Hof A, Klinke A, **Maaß M,** Konradi J, Mehrkens D, Geißen S, Nettersheim FS, Braumann S, Michaelsson E, Nies RJ, Lee S, Redzinski MC, Peters VBM, Nemade HN, von Stein P, Winkels H, Rudolph V, Baldus S, Adam M, Mollenhauer M. Protective Effects of Therapeutic Neutrophil Depletion and

Myeloperoxidase Inhibition on Left Ventricular Function and Remodeling in Myocardial Infarction. Antioxidants (Basel). 2022; 12 (1): 33

- Gehlsen U, Stary D, **Maass M,** Riesner K, Musial G, Stern ME, Penack O, Steven P. Ocular Graft-versus-Host Disease in a Chemotherapy-Based Minor-Mismatch Mouse Model Features Corneal (Lymph-) Angiogenesis. Int J Mol Sci. 2021; 22 (12): 6191
- Mollenhauer M, Bokredenghel S, Geißen S, Klinke A, Morstadt T, Torun M, Strauch S, Schumacher W, **Maass M,** Konradi J, Peters VBM, Berghausen E, Vantler M, Rosenkranz S, Mehrkens D, Braumann S, Nettersheim F, Hof A, Simsekyilmaz S, Winkels H, Rudolph V, Baldus S, Adam M, Freyhaus HT. Stamp2 Protects From Maladaptive Structural Remodeling and Systolic Dysfunction in Post-Ischemic Hearts by Attenuating Neutrophil Activation. Front Immunol. 2021; 12: 701721
- Peinkofer G, **Maass M,** Pfannkuche K, Sachinidis A, Baldus S, Hescheler J, Saric T, Halbach M. Persistence of intramyocardially transplanted murine induced pluripotent stem cell-derived cardiomyocytes from different developmental stages. Stem Cell Res Ther. 2021; 12 (1): 46
- Sahito RGA, Sheng X, **Maass M,** Mikhael N, Hamad S, Heras-Bautista CO, Derichsweiler D, Spitkovsky D, Suhr F, Khalil M, Brockmeier K, Halbach M, Saric T, Hescheler J, Krausgrill B, Pfannkuche K. In Vitro Grown Micro-Tissues for Cardiac Cell Replacement Therapy in Vivo. Cell Physiol Biochem. 2019; 52(6): 1309-1324
- Mollenhauer M, Friedrichs K, Lange M, Gesenberg J, Remane L, Kerkenpaß C, Krause J, Schneider J, Ravekes T, **Maass M,** Halbach M, Peinkofer G, Saric T, Mehrkens D, Adam M, Deuschl FG, Lau D, Geertz B, Manchanda K, Eschenhagen T, Kubala L, Rudolph TK, Wu Y, Tang WHW, Hazen SL, Baldus S, Klinke A, Rudolph V. Myeloperoxidase Mediates Postischemic Arrhythmogenic Ventricular Remodeling. Circ Res. 2017; 121(1): 56-70
- **Maass M,** Krausgrill B, Eschrig S, Kaluschke T, Urban K, Peinkofer G, Plenge TG, Oeckenpöhler S, Raths M, Ladage D, Halbach M, Hescheler J, Müller-Ehmsen J. Intramyocardially Transplanted Neonatal Cardiomyocytes (NCMs) Show Structural and Electrophysiological Maturation and Integration and Dose-Dependently Stabilize Function of Infarcted Rat Hearts. Cell Transplant. 2017, 26(1): 157-170
- Keller K, **Maass M**, Dizayee S, Leiss V, Annala S, Köth J, Seemann WK, Müller-Ehmsen J,Mohr K, Nürnberg B, Engelhardt S, Herzig S, Birnbaumer L,Matthes J. Lack of Gαi2 leads to dilative cardiomyopathy and increased mortality in β1-adrenoceptor overexpressing mice. Cardiovasc Res. 2015; 108(3): 348-56
- Rinschen MM, Pahmeyer C, Pisitkun T, Schnell N, Wu X, **Maaß M,** Bartram MP, Lamkemeyer T, Schermer B, Benzing T, Brinkkoetter PT. Comparative phosphoproteomic analysis of mammalian glomeruli reveals conserved podocin C-terminal phosphorylation as a determinant of slit diaphragm complex architecture. Proteomics. 2015; 15(7): 1326-31.

- Baumgartner S*, Halbach M*, Sahito RG, Krausgrill B, **Maass M,** Peinkofer G, Ladage D, Hescheler J, Müller-Ehmsen J. Electrophysiological and morphological maturation of murine fetal cardiomyocytes during electrical stimulation in vitro. Journal of Cardiovascular Pharmacology and Therapeutics. 2015; 20(1): 104-12.
- Halbach M*, Baumgartner S*, Sahito RG, Krausgrill B, **Maass M**, Peinkofer G, Ladage D, Hescheler J, Müller-Ehmsen J. Cell persistence and electrical integration of transplanted fetal cardiomyocytes from different developmental stages. Int J Cardiol. 2014; 171(3): e122-4.
- Halbach M*, Peinkofer G*, Baumgartner S, **Maass M**, Wiedey M, Neef K, Krausgrill B, Ladage D, Fatima A, Saric T, Hescheler J, Müller-Ehmsen J. Electrophysiological integration and action potential properties of transplanted cardiomyocytes derived from induced pluripotent stem cells. Cardiovasc Res. 2013; 100(3): 432-40.