

## **CURRICULUM VITAE**

**Michelle Trenkmann**



**Country:** Ireland (originally Germany)

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**Year of birth:** 1984

**Main diplomas:** Advanced Degree in Biochemistry (2007) and  
PhD in Molecular Biology (2013)

**Current position and hospital/university:**

Postdoctoral Research Fellow (The Conway Institute of Biomedical and  
Biomolecular Research, University College Dublin)

**Position within EULAR/international experience:**

2007-2013 Center of Experimental Rheumatology, Zurich, Switzerland  
2013-present University College Dublin, Ireland

**Role as EMEUNET working group member:** Social Media Subgroup

**Areas of Research/Interest:** Rheumatoid Arthritis – Basic Molecular  
Mechanisms of Disease

**Keywords:** rheumatoid arthritis, inflammation, cell signalling, macrophages,  
synovial fibroblasts

## Publications (selection):

Karouzakis E, **Trenkmann M**, Gay RE, Michel BA, Gay S, Neidhard M (2014) Epigenome analysis reveals TBX5 as a novel transcription factor involved in the activation of rheumatoid arthritis synovial fibroblasts. *J Immunol.* 193(10):4945-51

Brock M, Samillan V, **Trenkmann M**, Schwarzwald C, Ulrich S, Gay RE, Gassmann M, Ostergaard L, Gay S, Speich R, Huber LC (2014) AntagomiR directed against miR-20a restores functional BMP2 signalling and prevents vascular remodelling in hypoxia-induced pulmonary hypertension. *Eur Heart J.* 35(45):3203-11.

**Trenkmann M**, Brock M, Gay RE, Michel BA, Gay S, Huber LC (2013) The TNF $\alpha$ -induced miR-18a activates rheumatoid arthritis synovial fibroblasts through a feedback loop in NF- $\kappa$ B signaling. *Arthritis Rheum.* 65(4):916-27

Niederer F, **Trenkmann M**, Ospelt C, Karouzakis E, Neidhart M, Stanczyk J, Kolling C, Gay RE, Detmar M, Gay S, Jüngel A, Kyburz D (2012) Downregulation of microRNA-34a\* in rheumatoid arthritis synovial fibroblasts promotes apoptosis resistance. *Arthritis Rheum.* 64(6):1771-9

Brock M, **Trenkmann M**, Gay RE, Gay S, Speich R, Huber LC (2011) MicroRNA-18a enhances the interleukin-6-mediated production of the acute-phase proteins fibrinogen and haptoglobin in human hepatocytes. *J Biol Chem.* 286(46):40142-50.

**Trenkmann M**, Brock M, Gay RE, Kolling C, Speich R, Michel BA, Gay S, Huber LC (2011) Expression and function of EZH2 in synovial fibroblasts: epigenetic repression of the Wnt inhibitor SFRP1 in rheumatoid arthritis. *Ann Rheum Dis.* 70(8):1482-8.

Maurer B, Stanczyk J, Jüngel A, Akhmetshina A, **Trenkmann M**, Brock M, Kowal-Bielecka O, Gay RE, Michel BA, Distler JH, Gay S, Distler O (2010) MicroRNA-29, a key regulator of collagen expression in systemic sclerosis. *Arthritis Rheum.* 62(6):1733-43.

**Trenkmann M\***, Brock M\*, Ospelt C, Gay S (2010) Epigenetics in rheumatoid arthritis. *Clin Rev Allergy Immunol.* 39(1):10-9. Review. \*equal contribution

Brock M, **Trenkmann M**, Gay RE, Michel BA, Gay S, Fischler M, Ulrich S, Speich R, Huber LC (2009) Interleukin-6 modulates the expression of the bone morphogenic protein receptor type II through a novel STAT3-microRNA cluster 17/92 pathway. *Circ Res.* 104(10):1184-91.

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