

## **Prof. Dr. Mathias Heikenwaelder (male)**

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Helmholtz Young Investigators group leader, W2 Professor TUM

14.07.1976

## **Education and Employment Record**

### **Academic Education – University Degrees**

- 2009-09** Habilitation in Experimental Pathology, Medical Faculty, University Hospital Zürich, Switzerland.
- 2004-10** Graduation as Dr. sc. nat. at the University of Zürich with a Ph.D
- 2001-03** Ph.D. thesis in the group of Prof. Dr. Adriano Aguzzi, Institute of Neuropathology, University Hospital Zürich (USZ), Switzerland
- 1999-10** Diploma thesis with the group of Prof. Dr. Martin Zenke, Max-Delbrück center for Molecular Medicine (MDC), Berlin, Germany
- 1994-1999** Studies of Microbiology and Genetics at the University of Vienna, Austria, the Max-Perutz laboratories, Vienna, and the Institute of Molecular Pathology (IMP), Vienna.

### **Employment**

- 2012-07** W2-Professor, TU München and Research Associate at the University Hospital of Zürich, Clinical Pathology
- 2010-08** Helmholtz Young Investigator, Helmholtz-Zentrum München (HMGU)
- 2010-08** Sponsor and leading investigator of a clinical trial at the clinical trial Center Zürich (CTC), University Hospital Zürich to treat HCV-genotype 1 infected patients, group leader at the Dep. of Pathology USZ.
- 2007-08** Prof. Dr. Max-Cloëtta fellow and independent group leader at the Department of Pathology and start as a principal investigator (PI), University of Zürich
- 2006-07** Staff scientist and lecturer in the Department of Pathology, Institute of Neuropathology, University of Zürich
- 2004-10** Postdoctoral fellow at the Institute of Neuropathology, Pathology Department, University Hospital Zürich (USZ), Switzerland.

### **Teaching activities / supervisor responsibilities**

external PhD supervisor in 7 PhD thesis committees at the Helmholtz Zentrum München, Technische Universität München, University Zürich/ETH.

Technical University Munich (TUM): Responsible for a lecture series in the winter and summer semester called 'Basics on molecular virology'

Lectures at the Medical Faculty, TUM, the University Zurich and the Institute Pasteur, Paris on 'Inflammation and cancer'.

Student course on 'Techniques in molecular biology and virology', one week, each semester

### **International recognition and collaborations**

Collaborations in the field of Liver Cancer Research, inflammation and metabolism with the leading scientists in the field including Prof. Michael Karin (USCD, California), Prof. Manolis Pasparakis (Cologne, Germany), Prof. Lars Zender (Tübingen, Germany), Prof. Yinon Ben Neriah (Jerusalem, Israel), Prof. Eli Pikarsky (Jerusalem, Israel), Prof. Hans-Reimer Rodewald (Heidelberg, Germany), Prof. Sergei Nedospasov (Moscow, Russia) and Prof. Matthias Tschöp (Munich, Germany).

Member of scientific networks that deal with the treatment of liver cancer: Helmholtz Alliance 'Pre-clinical comprehensive cancer Center (PCCC)' and the Collaborative Research Transregio (SFB-TR36) on 'Adoptive T cell therapy'.

### **Editorial and scientific advisory boards**

Evaluation Committee member for Helmholtz young investigator Group leaders, Helmholtz Association, Berlin, Germany

Editorial Member, Cancer Research

Reviewer for the German Research Foundation (DFG and the German Cancer Aid)

Ad hoc Referee for Science, Cancer Cell, Immunity, PloS Pathogens, PloS One

### **Scholarships/Awards/Honors**

**2012** Walther and Christine Richtzenhain award

**2010** ERC Starting grant

**2010** Hofschneider award

**2009-10** *Götz prize*, donated by the University of Zürich, Switzerland, 2009.

**2006-10** *Empiris award* for brain research, donated by the empiris foundation for brain research, 2006.

**2004-11** "*Creutzfeldt Wissenschaftspreis*" donated by the Creutzfeldt-Stiftung, Kiel, Germany, 2004.

**1999-09** *Erasmus* fellowship provided by the European Community and an "*achievement-scholarship*" provided by the department of foreign studies, University of Vienna, Austria, for the duration of 9 months.

### **Other currently funded projects**

Tumor cell extravasation in colon cancer - Helmholtz Initiative and networking fund foundation of the Helmholtz Association (INF), Alliance Pre-clinical comprehensive center (PCCC)

Adoptive T- cell therapy to treat liver cancer - German Research Foundation (DFG), SFB (TR)36

Inflammation induced tissue destruction - Helmholtz Initiative and networking fund foundation of the Helmholtz Association (INF), YIG

Liver cancer mechanisms - European Research Council (ERC) Starting grant award

## Most important publications of the last 5 years

1. Wolf MJ, Adili A, Piotrowitz K, Abdullah Z, Boege Y, Stemmer K, Ringelhan M, Simonavicius N, Egger M, Wohlleber D, Lorentzen A, Einer C, Schulz S, Clavel T, Protzer U, Thiele C, Zischka H, Moch H, Tschöp M, Tumanov A, Haller D, Unger K, Karin M, Kopf M, Knolle P, Weber A and **Heikenwalder M**. “Metabolic activation of intrahepatic CD8<sup>+</sup> T-cells and NKT-cells causes nonalcoholic steatohepatitis and hepatocellular carcinoma via cross-talk with hepatocytes.” **Cancer Cell**, 2014 , in press 08/2014.
2. Lucifora J, Xia Y, Reisinger F, Zhang K, Stadler D, Cheng X, Sprinzl MF, Koppensteiner H, Makowska Z, Volz T, Remouchamps C, Chou WM, Thasler WE, Hüser N, Durantel D, Liang TJ, Münk C, Heim MH, Browning JL, Dejardin E, Dandri M, Schindler M, **Heikenwalder M**<sup>°,&</sup>, Protzer U<sup>°,&</sup>. “Specific and Nonhepatotoxic Degradation of Nuclear Hepatitis B Virus cccDNA.” **Science**. 2014 Feb 20.
3. Huang, L.R., Wohlleber, D., P., Reisinger, F., Kurts, C., Protzer, U., **Heikenwalder, M**<sup>°</sup>, Knolle, P.A.<sup>°</sup> . “Intrahepatic myeloid cell-aggregates enable local CD8<sup>+</sup> T cell expansion and successful immunotherapy against chronic viral liver infection.”. **Nat Immunol**. 2013 Jun 14 (6):574-83. doi: 10.1038/ni.2573. Epub 2013 Apr 14
4. Seleznik GM, Reding T, Romrig F, Saito Y, Mildner A, Segerer S, Sun LK, Stephan Regenass S, Lech M, Anders HJ, McHugh D, Kumagi T, Hiasa Y, Lackner C, Haybaeck J, Angst E, Perren A, Balmer ML, Slack E, MacPherson A, Manz M, Weber A, Browning JL, Arkan MC, Rüllicke T, Aguzzi A, Prinz M, Graf R, **Heikenwalder M**. “Lymphotoxin  $\beta$  Receptor Signaling Promotes Development of Autoimmune Pancreatitis”. **Gastroenterology**. 2012 Nov;143(5):1361-74. doi: 10.1053/j.gastro.2012.07.112. Epub 2012 Aug 2.
5. Wolf MJ, Hoos A, Bauer J, Boettcher S, Knust M, Weber A, Simonavicius N, Schneider C, Lang M, Stürzl M, Croner RS, Konrad A, Manz M, Moch H, Aguzzi A, Van Loo G, Pasparakis M, Prinz M, Borsig L, **Heikenwalder M**. “Endothelial CCR2 signaling induced by colon carcinoma cells enables extravasation via the JAK2-Stat5 and p38MAPK pathway”. **Cancer Cell**. 2012 Jul 10;22(1):91-105. doi: 10.1016/j.ccr.2012.05.023.
6. Haybaeck J, Zeller N, Wolf MJ, Weber A, Wagner U, Kurrer MO, Bremer J, Iezzi G, Graf R, Clavien PA, Thimme R, Blum H, Nedospasov SA, Zatloukal K, Ramzan M, Ciesek S, Pietschmann T, Marche PN, Karin M, Kopf M, Browning JL, Aguzzi A, **Heikenwalder M**. “A lymphotoxin-driven pathway to hepatocellular carcinoma”. **Cancer Cell**. 2009 Oct 6;16(4):295-308. doi: 10.1016/j.ccr.2009.08.021. Erratum in: **Cancer Cell**. 2009 Nov 6;16(5):447.

<sup>°</sup>Co-corresponding author - <sup>&</sup>Co-last author