

Heikenwalder, Mathias (14.07.1976)

Univ. Prof. Dr. Mathias Heikenwälder, Ph.D.
Head of Division (W3)
Chronic Inflammation and Cancer (F180)
Deutsches Krebsforschungszentrum
Im Neuenheimer Feld 242
69120 Heidelberg
Tel: +49 6221 42-3891
E-Mail: m.heikenwaelder@dkfz.de



University training and degree

1999 - 2001 Diploma in Molecular Biology at Max-Delbrück Center for Molecular Medicine (MDC), Berlin, Germany (Prof. Martin Zenke)
1995 - 2001 Studies of Microbiology and Genetics, University of Vienna

Advanced academic qualifications

2009 Habilitation (PD) in 'Experimental Pathology' at the Medical Faculty, University of Zurich, Switzerland (Prof. Holger Moch).
2001 - 2004 PhD at the Institute of Neuropathology, University Hospital Zurich (USZ)/ Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland (Prof. Adriano Aguzzi)

Postgraduate professional career

From 10/2019 on Group leader at the Dep. of Infectious Diseases, Molecular Virology
Since 2015 Head of the Division "Chronic Inflammation and Cancer", German Cancer Research Center
Since 2015 Full professor (W3) for "Chronic Inflammation and Cancer", Heidelberg University and German Cancer Research Center (DKFZ)
2010 - 2015 W2 Professor with a tenure track at the Technische Universität München
2010 - 2015 Helmholtz Young Investigators group leader with a tenure track at the Institute of Virology, Helmholtz Zentrum München, HMGU, Germany
2007 - 2010 Group leader, *Prof. Max-Cloëtta fellow* and lecturer at the Department of Pathology, University Hospital Zurich (USZ) / Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland
2005 - 2007 Postdoc and independent group leader at the at the Department of Pathology, University Hospital Zurich (USZ)
2004 – 2005 Postdoctoral fellow at the Institute of Neuropathology, University Hospital Zurich (USZ)/ Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland (Prof. Adriano Aguzzi)

Coordinating Functions (since 2010 or actual):

2015 - present Vice President of the Tier-Laborausschuss (TLA) DKFZ
2015 - present Co-ordinator of the Research Initiative Cancer and Inflammation in collaboration (DKFZ) with the NIH and NCI (USA)
2016 - present Co-ordinator at the DKFZ of the Helmholtz Zukunftsthema "Inflammation & Immunity"
2012 - 2016 Co-coordinator of the Preclinical comprehensive Cancer Center (PCCC)

Scholarships / Awards / Honors

2019 Highly Cited Researcher 2019 (Cross Fields) (Web of Science group)
2019 Member of the Deutsche Akademie der Naturforscher Leopoldina
2018 Prize of the Swiss Liver foundation against Cancer
2016 ERC Consolidator Grant on the topic of 'HepatoMetaboPath'
2013 Walther & Christine Richtzenhain Prize 'Translation Research in Cancer'
2012 Peter-Hans Hofschneider Award for 'Research in Gastroenterology'
2010 ERC Starting Grant on the topic of 'Livercancermechanism'
2009 Götz Prize for 'Investigating the role of chronic inflammation in disease'

2007	Prof. Dr. Max Cloëtta Award for 'Neuroinflammation Research'
2006	Empiris Award for Brain Research
2000	Erasmus Fellowship

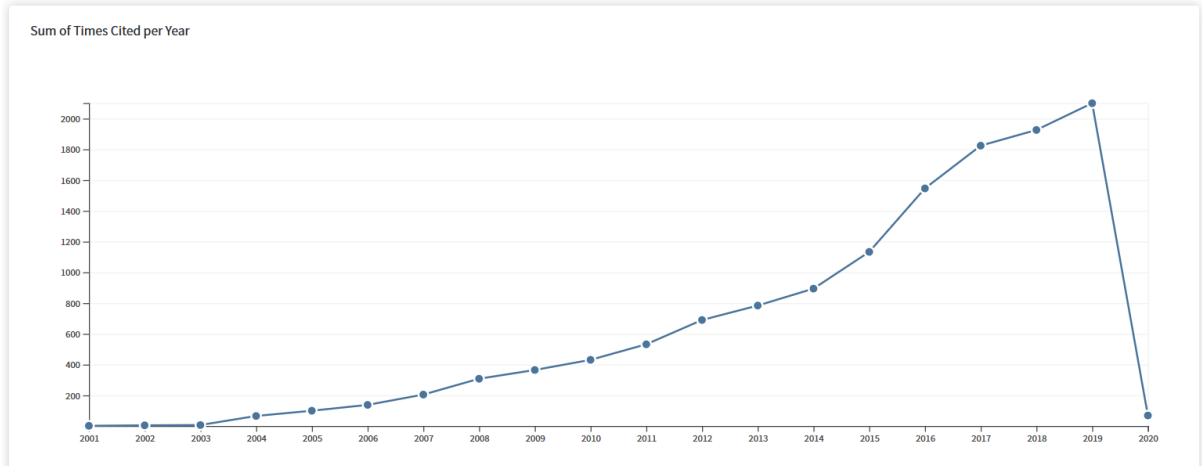
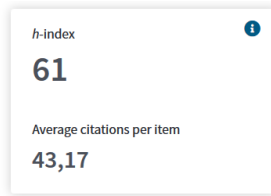
Most important publications

1. O'Connor T, Zhou X, Kosla J, Adili A, Garcia Beccaria M, Kotsiliti E, Pfister D, Johlke AL, Sinha A, Sankowski R, Schick M, Lewis R, Dokalis N, Seubert B, Höchst B, Inverso D, Heide D, Zhang W, Weihrich P, Manske K, Wohlleber D, Anton M, Hoellein A, Seleznik G, Bremer J, Bleul S, Augustin HG, Scherer F, Koedel U, Weber A, Protzer U, Förster R, Wirth T, Aguzzi A, Meissner F, Prinz M, Baumann B, Höpken UE, Knolle PA, von Baumgarten L, Keller U, **Heikenwalder M**. 2019. Age-Related Gliosis Promotes Central Nervous System Lymphoma through CCL19-Mediated Tumor Cell Retention. **Cancer Cell**. 2019 16;36(3):250-267.e9.
2. Malehmir M, Pfister D, Gallage S, ..., Knolle PA, Unger K, Zender L, Nieswandt B, Gawaz M, Gawaz M, Weber A. **Heikenwalder M**. 2019. Platelet GPIIb/IIIa is a mediator and potential interventional target for NASH and subsequent liver cancer. **Nature Medicine**. 25(4):641-655.
3. Anstee QM, Reeves HL, Kotsiliti E, Govaere O, **Heikenwalder M**. 2019. From NASH to HCC: current concepts and future challenges. **Nature Reviews Gastroenterol Hepatol**. Apr 26. doi: 10.1038/s41575-019-0145-7.
4. Lorentzen A, Becker PF, Kosla J, Saini M, Weidele K, Ronchi P, Klein C, Wolf MJ, Geist F, Seubert B, Ringelhan M, Mihic-Probst D, Esser K, Roblek M, Kuehne F, Bianco G, O'Connor T, Müller Q, Schuck K, Lange S, Hartmann D, Spaich S, Groß O, Utikal J, Haferkamp S, Sprick MR, Damle-Vartak A, Hapfelmeier A, Hüser N, Protzer U, Trumpp A, Saur D, Vartak N, Klein CA, Polzer B, Borsig L, **Heikenwalder M**. 2018. Single cell polarity in liquid phase facilitates tumour metastasis. **Nature Communications**. 9(1):887.
5. Ringelhan M, Pfister D, O'Connor T, Pikarsky E, **Heikenwalder M**. 2018. The immunology of hepatocellular carcinoma. **Nature Immunology**. Mar;19(3):222-232.
6. Yuan D, Huang S, ..., Wohlleber D, Jörs S, Prinz M, Spalding D, Protzer U, Luedde T, Terracciano L, Matter M, Longerich T, Knolle PA, Ried T, Keitel V, Geisler F, Unger K, Cinnamon E, Pikarsky E, Hüser N, Davis RJ, Tschaharganeh DF, Rad R, Weber A, Zender L, Haller D*, **Heikenwalder M***. 2017. Kupffer-cell derived TNF triggers cholangiocellular tumorigenesis through JNK due to chronic mitochondrial dysfunction and ROS. **Cancer Cell**. 31(6):771-789.
7. Boege Y, Malehmir M, Healy ME, Bettermann K, Lorentzen A, Vucur M, Ahuja AK, Böhm F, Mertens JC, Shimizu Y, Frick L, Remouchamps C, Mutreja K, Kähne T, Sundaravinayagam D, Wolf MJ, Rehauer H, Koppe C, Speicher T, Padrisa-Altés S, Maire R, Schattenberg JM, Jeong JS, Liu L, Zwirner S, Boger R, Hüser N, Davis RJ, Müllhaupt B, Moch H, Schulze-Bergkamen H, Clavien PA, Werner S, Borsig L, Luther SA, Jost PJ, Weinlich R, Unger K, Behrens A, Hillert L, Dillon C, Di Virgilio M, Wallach D, Dejardin E, Zender L, Naumann M, Walczak H, Green DR, Lopes M, Lavrik I, Luedde T, **Heikenwalder M***, Weber A*. Dual Role of Caspase-8 in Triggering and Sensing Proliferation-Associated DNA Damage, a Key Determinant of Liver Cancer Development. **Cancer Cell**. 2017 Sep 11;32(3):342-359.e10.
8. Mejías-Luque R, Zöller J, Anderl F, Loew-Gil E, Vieth M, Adler T, Engler DB, Urban S, Browning JL, Müller A, Gerhard M, **Heikenwalder M**. 2016. Lymphotoxin β receptor signalling executes Helicobacter pylori-driven gastric inflammation in a T4SS-dependent manner. **Gut**. 66(8):1369-1381.
9. Endig J, Buitrago-Molina LE, Marhenke S, Reisinger F, Saborowski A, Schütt J, Limbourg F, Könecke C, Schreder A, Michael A, Misslitz AC, Healy ME, Geffers R, Clavel T, Haller D, Unger K, Finegold M, Weber A, Manns MP, Longerich T, **Heikenwalder M**, Vogel A. 2016. Dual Role of the Adaptive Immune System in Liver Injury and Hepatocellular Carcinoma Development.

- Cancer Cell.** 8;30(2):308-23.
10. Ma C, Kesarwala AH, Eggert T, Medina-Echeverz J, Kleiner DE, Jin P, Stroncek DF, Terabe M, Kapoor V, ElGindi M, Han M, Thornton AM, Zhang H, Egger M, Luo J, Felsner DW, McVicar DW, Weber A, **Heikenwalder M**, Greten TF. 2016. NAFLD causes selective CD4(+) T lymphocyte loss and promotes hepatocarcinogenesis. **Nature.** Mar 10;531(7593):253-7
 11. Finkin S, Yuan D, Stein I, Taniguchi K, Weber A, Unger K, Browning JL, Goossens N, Nakagawa S, Gunasekaran G, Schwartz ME, Kobayashi M, Kumada H, Berger M, Pappo O, Rajewsky K, Hoshida Y, Karin M, **Heikenwalder M***, Ben-Neriah Y*, Pikarsky E*. Ectopic lymphoid structures function as microniches for tumor progenitor cells in hepatocellular carcinoma. **Nature Immunology.** 2015 Dec;16(12):1235-44.
 12. 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 AV, Haller D, Unger K, Karin M, Kopf M, Knolle PA, Weber A*, **Heikenwalder M***. 2014. Metabolic activation of intrahepatic CD8+ T-cells and NKT-cells causes nonalcoholic steatohepatitis and hepatocellular carcinoma via cross-talk with hepatocytes. **Cancer Cell.** 26:549-564.
 13. Jeltsch KM, Hu D, Brenner S, Zöller J, Heinz GA, Nagel D, Vogel KU, Rehage N, Warth SC, Edelmann SL, Gloury R, Martin N, Lohs C, Lech M, Stehlein JE, Geerlof A, Kremmer E, Weber A, Anders HJ, Schmitz I, Schmidt-Supprian M, Fu M, Holtmann H, Krappmann D, Ruland J, Kallies A, **Heikenwalder M**, Heissmeyer V. 2014. Cleavage of roquin and regnase-1 by the paracaspase MALT1 releases their cooperatively repressed targets to promote TH17 differentiation. **Nature Immunology.** 2014;15(11): 1079-89
 14. 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***, Potzer U*. 2014. Specific and nonhepatotoxic degradation of nuclear hepatitis B virus cccDNA. **Science.** 343:1221-1228.
 15. Intrahepatic myeloid-cell aggregates enable local proliferation of CD8(+) T cells and successful immunotherapy against chronic viral liver infection. Huang LR, Wohlleber D, Reisinger F, Jenne CN, Cheng RL, Abdullah Z, Schildberg FA, Odenthal M, Dienes HP, van Rooijen N, Schmitt E, Garbi N, Croft M, Kurts C, Kubes P, Protzer U, **Heikenwalder M***, Knolle PA*. **Nature Immunology.** 2013 Jun;14(6):574-83. doi: 10.1038/ni.2573. Epub 2013 Apr 14.
 16. Seleznik GM, Reding T, Romrig F, Saito Y, Mildner A, Segerer S, Sun LK, 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 MG, Weber A, Browning JL, Arkan MC, Rüllicke T, Aguzzi A, Prinz M, Graf R, **Heikenwalder M**. 2012. Lymphotoxin β receptor signaling promotes development of autoimmune pancreatitis. **Gastroenterology.** 143(5):1361-1374.
 17. 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 MG, Moch H, Aguzzi A, van Loo G, Pasparakis M, Prinz M, Borsig L, **Heikenwalder M**. 2012. Endothelial CCR2 signaling induced by colon carcinoma cells enables extravasation via the JAK2-Stat5 and p38MAPK pathway. **Cancer Cell.** 22:91-105.
 18. 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**. 2009. A lymphotoxin-driven pathway to hepatocellular carcinoma. **Cancer Cell.** 16:295-308.

*co-last, co-correspondance

Publication Statistics (20/01/2020; Web of knowledge)



Publication list of the last five years

Guerrero A, Herranz N, Sun B, Wagner V, Gallage S, Guiho R, Wolter K, Pombo J, Irvine EE, Innes AJ, Birch J, Glegola J, Manshaei S, Heide D, Dharmalingam G, Harbig J, Olona A, Behmoaras J, Dauch D, Uren AG, Zender L, Vernia S, Martínez-Barbera JP, **Heikenwalder M**, Withers DJ, Gil J. Cardiac glycosides are broad-spectrum senolytics. *Nature Metabolism*. 2019 Nov;1(11):1074-1088. doi: 10.1038/s42255-019-0122-z. Epub 2019 Oct 21.

O'Connor T, Zhou X, Kosla J, Adili A, Garcia Beccaria M, Kotsiliti E, Pfister D, Johlke AL, Sinha A, Sankowski R, Schick M, Lewis R, Dokalis N, Seubert B, Höchst B, Inverso D, Heide D, Zhang W, Weihrich P, Manske K, Wohlleber D, Anton M, Hoellein A, Seleznik G, Bremer J, Bleul S, Augustin HG, Scherer F, Koedel U, Weber A, Protzer U, Förster R, Wirth T, Aguzzi A, Meissner F, Prinz M, Baumann B, Höpken UE, Knolle PA, von Baumgarten L, Keller U, **Heikenwalder M**. Age-Related Gliosis Promotes Central Nervous System Lymphoma through CCL19-Mediated Tumor Cell Retention. *Cancer Cell*. 2019 Sep 16;36(3):250-267.e9. doi: 10.1016/j.ccell.2019.08.001.

Li K, Neumann K, Duhan V, Namineni S, Hansen AL, Wartewig T, Kurgys Z, Holm CK, Heikenwalder M, Lang KS, Ruland J. The uric acid crystal receptor Clec12A potentiates type I interferon responses. *Proc Natl Acad Sci U S A*. 2019 Aug 26. pii: 201821351. doi: 10.1073/pnas.1821351116. [Epub ahead of print] Mayer AE, Löffler MC, Loza Valdés AE, Schmitz W, El-Merahbi R, Viera JT, Erk M, Zhang T, Braun U, **Heikenwalder M**, Leitges M, Schulze A, Sumara G. The kinase PKD3 provides negative feedback on cholesterol and triglyceride synthesis by suppressing insulin signaling. *Sci Signal*. 2019 Aug 6;12(593). pii: eaav9150. doi: 10.1126/scisignal.aav9150.

Faure-Dupuy S, Delphin M, Aillot L, Dimier L, Lebossé F, Fresquet J, Parent R, Sebastian Matter M, Rivoire M, Bendriss-Vermare N, Salvetti A, Heide D, Flores L, Klumpp K, Lam A, Zoulim F, **Heikenwalder M**, Durantel D, Lucifora J. Hepatitis B Virus-induced modulation of liver macrophage function promotes hepatocyte infection. *J Hepatol*. 2019 Jul 23. pii: S0168-8278(19)30422-2. doi: 10.1016/j.jhep.2019.06.032. [Epub ahead of print]

Moeini A, Torrecilla S, Tovar V, Montironi C, Andreu-Oller C, Peix J, Higuera M, Pfister D, Ramadori P, Pinyol R, Solé M, **Heikenwalder M**, Friedman SL, Sia D, Llovet JM. An Immune Gene Expression Signature Associated With Development of Human Hepatocellular Carcinoma Identifies Mice That Respond to Chemopreventive Agents. *Gastroenterology*. 2019 Jul 22. pii: S0016-5085(19)41121-9. doi: 10.1053/j.gastro.2019.07.028. [Epub ahead of print]

Koppe C, Reisinger F, Wehr K, Vucur M, Trautwein C, Tacke F, **Heikenwalder M**, Luedde T. An NF-kappaB- and IKK-independent function of NEMO prevents hepatocarcinogenesis by suppressing compensatory liver regeneration. *Cancers (Basel)*. 2019 Jul 17;11(7). pii: E999. doi: 10.3390/cancers11070999.

Rusu P, Shao C, Neuerburg A, Acikgöz AA, Wu Y, Zou P, Phapale P, Shankar TS, Döring K, Dettling S, Körkel-Qu H, Bekki G, Costa B, Guo T, Friesen O, Schlotter M, **Heikenwalder M**, Tschaharganeh DF, Bukau B, Kramer G, Angel P, Herold-Mende C, Radlwimmer B, Liu HK. GPD1 specifically marks dormant glioma stem cells with a distinct metabolic profile. *Cell Stem Cell*. 2019 Jul 3. pii: S1934-5909(19)30268-1. doi: 10.1016/j.stem.2019.06.004. [Epub ahead of print]

Heikenwalder M, Lorentzen A. The role of polarisation of circulating tumour cells in cancer metastasis. *Cell Mol Life Sci*. 2019 Jun 19. doi: 10.1007/s00018-019-03169-3. Review.

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Gamm M, Schaub A, Jones AN, Wolf C, Behrens G, Licht J, Essig K, Macht A, Pircher J, Ehrlich A, Davari K, Chauhan D, Busch B, Wurst W, Feederle R, Feuchtinger A, Tschöp MH, Friedel CC, Hauck SM, Sattler M, Geerloff A, Hornung V, Heissmeyer V, Schulz C, **Heikenwalder M**, Glasmacher E. Immune homeostasis and regulation of the interferon pathway require myeloid-derived Regnase-3. *J Exp Med*. 2019 May 24. pii: jem.20181762. doi: 10.1084/jem.20181762.

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Increased LIGHT expression and activation of non-canonical NF- κ B are observed in gastric lesions of MyD88-deficient mice upon *Helicobacter felis* infection.

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