

Key-publications:

(Last-, co-last, co-corresponding authorship; first and co-first authorship)

1. Funk MC, Gleixner JG, Heigwer F, Vonficht D, Valentini E, Aydin Z, Tonin E, Del Prete S, Mahara S, Throm Y, Hetzer J, Heide D, Stegle O, Odom DT, Feldmann A, Haas S, **Heikenwälder M**, Boutros M. Aged intestinal stem cells propagate cell-intrinsic sources of inflammation in mice. *Developmental Cell*. 2023 Dec 18;58(24):2914-2929.e7. doi: 10.1016/j.devcel.2023.11.013. PMID: 38113852. **IF: 11,8**
2. Ghasemi A, Martinez-Usatorre A, Li L, Hicham M, Guichard A, Marcone R, Fournier N, Torchia B, Martinez Bedoya D, Davanture S, Fernández-Vaquero M, Fan C, Janzen J, Mohammadzadeh Y, Genolet R, Mansouri N, Wenes M, Migliorini D, **Heikenwälder M**, De Palma M. Cytokine-armed dendritic cell progenitors for antigen-agnostic cancer immunotherapy. *Nature Cancer*. 2023 Nov 23. doi: 10.1038/s43018-023-00668-y. Epub ahead of print. PMID: 37996514. **IF: 22,7**
3. Vucur M, Ghallab A, Schneider AT, Adili A, Cheng M, Castoldi M, Singer MT, Büttner V, Keysberg LS, Küsgens L, Kohlhepp M, Görg B, Gallage S, Barragan Avila JE, Unger K, Kordes C, Leblond AL, Albrecht W, Loosen SH, Lohr C, Jördens MS, Babler A, Hayat S, Schumacher D, Koenen MT, Govaere O, Boekschoten MV, Jörs S, Villacorta-Martin C, Mazzaferro V, Llovet JM, Weiskirchen R, Kather JN, Starlinger P, Trauner M, Luedde M, Heij LR, Neumann UP, Keitel V, Bode JG, Schneider RK, Tacke F, Levkau B, Lammers T, Fluegen G, Alexandrov T, Collins AL, Nelson G, Oakley F, Mann DA, Roderburg C, Longerich T, Weber A, Villanueva A, Samson AL, Murphy JM, Kramann R, Geisler F, Costa IG, Hengstler JG, **Heikenwälder M**, Luedde T. Sublethal necroptosis signaling promotes inflammation and liver cancer. *Immunity*. 2023 Jul 11;56(7):1578-1595.e8. doi: 10.1016/j.immuni.2023.05.017. Epub 2023 Jun 16. PMID: 37329888. **IF: 43,4**
4. Wang S, Chen S, Sun J, Han P, Xu B, Li X, Zhong Y, Xu Z, Zhang P, Mi P, Zhang C, Li L, Zhang H, Xia Y, Li S, **Heikenwälder M***, Yuan D*. m⁶A modification-tuned sphingolipid metabolism regulates postnatal liver development in male mice. *Nature Metabolism* 2023 May;5(5):842-860. doi: 10.1038/s42255-023-00808-9. Epub 2023 May 15. PMID: 37188818. **IF: 19,9** * Co-last, co-corresponding author
5. Kotsiliti E, Leone V, Schuehle S, Govaere O, Li H, Wolf MJ, Horvatic H, Bierwirth S, Hundertmark J, Inverso D, Zizmare L, Sarusi-Portuguez A, Gupta R, O'Connor T, Giannou AD, Shiri AM, Schlesinger Y, Beccaria MG, Rennert C, Pfister D, Öllinger R, Gadjalova I, Ramadori P, Rahbari M, Rahbari N, Healy ME, Fernández-Vaquero M, Yahoo N, Janzen J, Singh I, Fan C, Liu X, Rau M, Feuchtenberger M, Schwaneck E, Wallace SJ, Cockell S, Wilson-Kanamori J, Ramachandran P, Kho C, Kendall TJ, Leblond AL, Keppler SJ, Bielecki P, Steiger K, Hofmann M, Rippe K, Zitzelsberger H, Weber A, Malek N, Luedde T, Vucur M, Augustin HG, Flavell R, Parnas O, Rad R, Pabst O, Henderson NC, Huber S, Macpherson A, Knolle P, Claassen M, Geier A, Trautwein C, Unger K, Elinav E, Waisman A, Abdullah Z, Haller D, Tacke F, Anstee QM, **Heikenwälder M**. Intestinal B cells license metabolic T-cell activation in NASH microbiota/antigen-independently and contribute to fibrosis by IgA-FcR signalling. *Journal of Hepatology* 2023 Aug;79(2):296-313. doi: 10.1016/j.jhep.2023.04.037. Epub 2023 May 22. PMID: 37224925; PMCID: PMC10360918. **IF: 25**
6. Rosenberg N, Van Haele M, Lanton T, Brashi N, Bromberg Z, Adler H, Giladi H, Peled A, Goldenberg DS, Axelrod JH, Simerzin A, Chai C, Paldor M, Markezana A, Yaish D, Shemulian Z, Gross D, Barnoy S, Gefen M, Amran O, Claerhout S, Fernández-Vaquero M, García-Beccaria M, Heide D, Shoshkes-Carmel M, Schmidt Arras D, Elgavish S, Nevo Y, Benyamini H, Tirnitz-Parker JEE, Sanchez A, Herrera B, Safadi R, Kaestner KH, Rose-John S, Roskams T, **Heikenwälder M***, Galun E*. Combined hepatocellular-cholangiocarcinoma derives from liver progenitor cells and depends on senescence and IL-6 trans-signaling. *Journal of Hepatology* 2022 Dec;77(6):1631-1641. **IF: 25** * Co-last, co-corresponding author
7. Riedl T, Faure-Dupuy S, Rolland M, Schuehle S, Hizir Z, Calderazzo S, Zhuang X, Wettengel J, Lopez MA, Barnault R, Mirakaj V, Prokosch S, Heide D, Leuchtenberger C, Schneider M, Heßling B, Stottmeier B, Wessbecher IM, Schirmacher P, McKeating JA, Protzer U, Durantel D, Lucifora J, Dejardin E*, **Heikenwälder M***. Hypoxia-Inducible Factor 1 Alpha-Mediated RelB/APOBEC3B Down-regulation Allows Hepatitis B Virus Persistence.

8. Luca Rappez, Mira Stadler. **Mathias Heikenwalder***, Theodore Aelxandrov*. SpaceM reveals metabolic states of single cells.
Nature Methods 2021 Jul;18(7):799-805. **IF: 28,5** * Co-last, co-corresponding author
9. Aleksandra Deczkowska, Eyal David, Pierluigi Ramadori, Dominik Pfister, Michal Safran, Baoguo Li, Amir Giladi, Diego Adhemar Jaitin, Oren Barboy, Merav Cohen, Ido Yofe, Chamutal Gur, Shir Shlomi-Loubaton, Sandrine Henri, Yousuf Suhail, Mengjie Qiu, Shing Kam, Hila Hermon, Eylon Lahat, Gil Ben-Yakov, Oranit Cohen-Ezra, Yana Davidov, Mariya Likhter, David Goitein^{8,10}, Susanne Roth, Achim Weber, Bernard Malissen, Assaf Weiner*, Ziv Ben-Ari*, **Mathias Heikenwalder***, Eran Elinav*, Ido Amit*. XCR1+ type 1 conventional dendritic cells drive liver pathology in Non-Alcoholic Steatohepatitis.
Nature Medicine, 2021 Jun;27(6):1043-1054. **IF: 53,4** * Co-last, co-corresponding author
10. Dominik Pfister, Nicolás Gonzalo Núñez, Roser Pinyo, Olivier Govaere, Matthias Pinter, Marta Szydlowska, Revant Gupta, Mengjie Qiu, Aleksandra Deczkowska, Assaf Weiner, Florian Müller, Ankit Sinha, Ekaterina Friebe, Thomas Engleitner, Daniela Lenggenhager, Kristin Stirm, Jan Kosla, Suhail Youssuf, Michael Dudek, Eleni Kotsiliti, Valentina Leone, Donato Inverso, Indrabahadur Singh, Florian Castet, Carla Montironi, Philipp K. Haber, Dina Tiniakos, Pierre Bedossa, Simon Cockell, Ramy Younes, Michele Vacca, Fabio Marra, Jörn M. Schattenberg, Michael Allison, Elisabetta Bugianesi, Vlad Ratziu, Tiziana Pressiani, Antonio D'Alessio, Nicola Personeni, Lorenza Rimassa, Ann K. Daly, Bernhard Scheiner, Katharina Pomej, Martha M. Kirstein, Arndt Vogel, Markus Peck-Radosavljevic, Florian Hucke, Fabian Finkelmeier, Oliver Waidmann, Jörg Trojan, Kornelius Schulze, Henning Wege, Sandra Koch, Arndt Weinmann, Marco Bueter, Fabian Rössler, Alexander Siebenhüner, Sara De Dosso, Manfred Jugold, Tom Luedde, Andrea Schietinger, Peter Schirmacher, Hellmut G. Augustin, Adrian Billeter, Beat Müller-Stich, Katharina Wolter, Lars Zender, Henrik E. Mei, Axel Ronald Schulz, Marc Ringelhan, Nisar Malek, Stephan Spahn, Michael Bitzer, Amaia Lujambio, Nuh Rahbari, Jean-Francois Dufour, Thomas U. Marron, Ahmed Kaseb, Masatoshi Kudo, Yi-Hsiang Huang, Ana Teijeiro, Nabil Djouder, Achim Weber, Parice N. Marche, David J. Pinato, Thomas Decaens, Zuzana Macek Jilkova, Roland Rad, Joachim C. Mertens, Kristian Unger, Felix Meissner, Susanne Roth, Manfred Claassen, Quentin M. Anstee, Ido Amit, Burkhard Becher, Percy Knolle, Josep M Llovet*, **Mathias Heikenwalder***. NASH precludes anti-tumor surveillance in immunotherapy-treated hepatocellular carcinoma.
Nature 2021 Mar 24. doi: 10.1038/s41586-021-03362-0. Online ahead of print.
PMID: 33762733 **IF: 49,9*** Co-last, co-corresponding author
11. Dudek M, Pfister D, Donakonda S, Filpe P, Schneider A, Laschinger M, Hartmann D, Hüser N, Meiser P, Bayerl F, Inverso D, Wigger J, Sebode M, Öllinger R, Rad R, Roth S, Hegenbarth S, Anton M, Guillot A, Bowman A, Heide D, Müller M, Garcia Caceres C, Gruber T, Seifert G, Kabat A, Malm JP, Effenberger R, Billeter A, Müller-Stich B, Pearce EJ, Koch-Nolte F, Käser R, Tilg H, Thimme R, Böttler T, Tacke F, Dufour JF, Haller D, Murray P, Heeren R, Zehn D, Böttcher J, **Heikenwalder M**, Knolle P. CXCR6⁺ PD-1^{hi} CD8 T cells cause liver immune pathology after metabolic activation in non-alcoholic steatohepatitis. *Nature* 2021 Mar 24. doi: 10.1038/s41586-021-03233-8. Online ahead of print. PMID: 33762736. **IF: 49,9**
12. Conlon TM, John-Schuster G, Heide D, Pfister D, Lehmann M, Hu Y, Ertüz Z, Lopez MA, Ansari M, Strunz M, Mayr C, Ciminieri C, Costa R, Kohlhepp MS, Guillot A, Günes G, Jeridi A, Funk MC, Beroshvili G, Prokosch S, Hetzer J, Verleden SE, Alsafadi H, Lindner M, Burgstaller G, Becker L, Irmeler M, Dudek M, Janzen J, Goffin E, Gosens R, Knolle P, Pirotte B, Stoeger T, Beckers J, Wagner D, Singh I, Theis FJ, de Angelis MH, O'Connor T, Tacke F, Boutros M, Dejardin E, Eickelberg O, Schiller HB, Königshoff M, **Heikenwalder M***, Yildirim AO*. Blocking of LTbR-signalling prevents epithelial apoptosis and activates endogenous Wnt-induced lung regeneration.
Nature 2020; doi: 10.1038/s41586-020-2882-8. **IF: 49,9** * Co-last, co-corresponding author
13. Li H, Limenitakis JP, Greiff V, Yilmaz B, Schären O, Urbaniak C, Zünd M, Lawson MAE, Young ID, Rupp S, **Heikenwalder M**, McCoy KD, Hapfelmeier S, Ganai-Vonarburg SC, Macpherson AJ. Mucosal or systemic microbiota exposures shape the B cell repertoire.
Nature 2020 Aug;584(7820):274-278. **IF: 49,9**
14. Healy ME, Boege Y, Hodder MC, Böhm F, Malehmir M, Scherr AL, Jetzer J, Chan LK, Parrotta R, Jacobs K, Clerbaux LA, Kreutzer S, Campbell A, Gilchrist E, Gilroy K, Rodewald AK, Honcharova-Biletska H, Schimmer R, Vélez K, Büeler S, Cammareri P, Kalna G, Wenning AS, McCoy KD, Gomez de Agüero M, Schulze-Bergkamen H, Klose CSN, Unger K, Macpherson AJ, Moor AE, Köhler B, Sansom OJ*, **Heikenwalder M***, Weber A*. MCL1 Is Required for Maintenance of Intestinal Homeostasis and Prevention of Carcinogenesis in Mice.
Gastroenterology. 2020 Jul;159(1):183-199. **IF: 22,60** * Co-last, co-corresponding author

15. Namineni S, O'Connor T, Faure-Dupuy S, Johansen P, Riedl T, Liu K, Xu H, Singh I, Shinde P, Li F, Pandya A, Sharma P, Ringelhan M, Muschaweckh A, Borst K, Blank P, Lampl S, Neuhaus K, Durantel D, Farhat R, Weber A, Lenggenhager D, Kündig TM, Staeheli P, Protzer U, Wohlleber D, Holzmann B, Binder M, Breuhahn K, Assmus LM, Nattermann J, Abdullah Z, Rolland M, Dejardin E, Lang PA, Lang KS, Karin M, Lucifora J, Kalinke U, Knolle PA, **Heikenwalder M**. A dual role for hepatocyte-intrinsic canonical NF- κ B signaling in virus control.
Journal of Hepatology 2020 May; 72(5): 960-975. **IF: 25,08**
16. 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; 36:250-267. **IF: 31,74**
17. Malehmir M, Pfister D, Gallage S, Szydlowska M, Inverso D, Kotsiliti E, Leone V, Peiseler M, Surewaard BGJ, Rath D, Ali A, Wolf MJ, Drescher H, Healy ME, Dauch D, Kroy D, Krenkel O, Kohlhepp M, Engleitner T, Olkus A, Sijmonsma T, Volz J, Deppermann C, Stegner D, Helbling P, Nombela-Arrieta C, Rafiei A, Hinterleitner M, Rall M, Baku F, Borst O, Wilson CL, Leslie J, O'Connor T, Weston CJ, Adams DH, Sheriff L, Teijeiro A, Prinz M, Bogeska R, Anstee N, Bongers MN, Notohamiprodjo M, Geisler T, Withers DJ, Ware J, Mann DA, Augustin HG, Vegiopoulos A, Milsom MD, Rose AJ, Lalor PF, Llovet JM, Pinyol R, Tacke F, Rad R, Matter M, Djouder N, Kubes P, Knolle PA, Unger K, Zender L, Nieswandt B, Gawaz M, Weber A*, **Heikenwalder M***. Platelet GPIIb is a mediator and potential interventional target for NASH and subsequent liver cancer.
Nature Medicine 2019; 25:641-655 **IF: 53,4*** Co-last, co-corresponding author
18. 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**. Single cell polarity in liquid phase facilitates tumour metastasis.
Nature Communications 2018; 9:887-897. **IF: 14,92**
19. Seehawer M, Heinzmann F, D'Artista L, Harbig J, Roux PF, Hoenicke L, Dang H, Klotz S, Robinson L, Doré G, Rozenblum N, Kang TW, Chawla R, Buch T, Vucur M, Roth M, Zuber J, Luedde T, Sipos B, Longerich T, **Heikenwalder M**, Wang XW, Bischof O, Zender L. Necroptosis microenvironment directs lineage commitment in liver cancer.
Nature 2018; 562:69-75. **IF: 49,9**
20. Georgilis A, Klotz S, Hanley CJ, Herranz N, Weirich B, Morancho B, Leote AC, D'Artista L, Gallage S, Seehawer M, Carroll T, Dharmalingam G, Wee KB, Mellone M, Pombo J, Heide D, Guccione E, Arribas J, Barbosa-Morais NL, **Heikenwalder M**, Thomas GJ, Zender L, Gil J. PTBP1-Mediated Alternative Splicing Regulates the Inflammatory Secretome and the Pro-tumorigenic Effects of Senescent Cells.
Cancer Cell 2018 Jul 9;34(1):85-102.e9. **IF: 31,74**
21. Yuan D, Huang S, Berger E, Liu L, Gross N, Heinzmann F, Ringelhan M, Connor TO, Stadler M, Meister M, Weber J, Öllinger R, Simonavicius N, Reisinger F, Hartmann D, Meyer R, Reich M, Seehawer M, Leone V, Höchst B, Wohlleber D, Jörs S, Prinz M, Spalding D, Protzer U, Luedde T, Terracciano L, Matter M, Longerich T, Knolle P, 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**. Kupffer-cell derived TNF triggers cholangiocellular tumorigenesis through JNK due to chronic mitochondrial dysfunction and ROS.
Cancer Cell 2017; 31:771-789. **IF: 31,74**
22. 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; 32:342-359. **IF: 31,74** * Co-last, co-corresponding author

23. 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, Felsher DW, McVicar DW, Weber A, **Heikenwalder M**, Greten TF. NAFLD causes selective CD4(+) T lymphocyte loss and promotes hepatocarcinogenesis.
Nature 2016 531:253-7. **IF: 49,9**
24. Eggert T, Wolter K, Ji J, Ma C, Yevsa T, Klotz S, Medina-Echeverz J, Longerich T, Forgues M, Reisinger F, **Heikenwalder M**, Wang XW, Zender L, Greten TF. Distinct Functions of Senescence-Associated Immune-Responses in Liver Tumor Surveillance and Tumor Progression.
Cancer Cell 2016 Oct 10;30(4):533-547. **IF: 31,74**
25. 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. Dual Role of the Adaptive Immune System in Liver Injury and Hepatocellular Carcinoma Development.
Cancer Cell 2016 Aug 8;30(2):308-23. **IF: 31,74**
26. 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**. Lymphotoxin β receptor signalling executes Helicobacter pylori-driven gastric inflammation in a T4SS-dependent manner.
Gut 2016 Apr 13. pii: gutjnl-2015-310783. **IF: 23,05**
27. Gomez de Agüero M, Ganai-Vonarburg SC, Fuhrer T, Rupp S, Uchimura Y, Li H, Steinert A, **Heikenwalder M**, Hapfelmeier S, Sauer U, McCoy KD, Macpherson AJ. The maternal microbiota drives early postnatal innate immune development.
Science 2016 Mar 18;351(6279):1296-302. **IF: 47,72**
28. Sunami Y, Ringelhan M, Kokai E, Lu M, O'Connor T, Lorentzen A, Weber A, Rodewald AK, Müllhaupt B, Terracciano L, Gul S, Wissel S, Leithäuser F, Krappmann D, Riedl P, Hartmann D, Schirmbeck R, Strnad P, Hüser N, Kleeff J, Friess H, Schmid RM, Geisler F, Wirth T, **Heikenwalder M**. Canonical NF- κ B signaling in hepatocytes acts as a tumor-suppressor in HBV surface antigen-driven HCC by controlling the UPR.
Hepatology 2016 May;63(5):1592-607. **IF: 17,40**
29. 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 microniche for tumor progenitor cells in hepatocellular carcinoma.
Nature Immunology 2015; 16:1235-44. **IF: 25,60** *co-corresponding author
30. Wolf MJ, Adili A, Piotrowitz K, Abdullah Z, Boege Y, Stemmer K, Ringelhan M, Simonavicius N, Egger M, Wöhlleber 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⁺ T-cells and NKT-cells causes nonalcoholic steatohepatitis and hepatocellular carcinoma via cross-talk with hepatocytes.
Cancer Cell 2014; 26:549-64. **IF: 31,74** *co-corresponding author
31. 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***, Protzer U*. Specific and Nonhepatotoxic Degradation of Nuclear Hepatitis B Virus cccDNA.
Science 2014; 343:1221-8. **IF: 47,72** *co-corresponding and co-last author
32. 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, Stehklein 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. 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. **IF: 25,60**
33. Huang LR, Wöhlleber 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*. Intrahepatic myeloid-cell aggregates enable local proliferation of CD8⁺ T cells and successful immunotherapy against chronic viral liver infection.
Nature Immunology 2013 Jun;14(6):574-83. **IF: 25,60** *co-corresponding

34. 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 2012 Jul; 10;22(1):91-105. **IF: 31,74** *co-corresponding and co-last author
35. 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. **IF: 22,60** *co-corresponding and co-last author
36. Bettermann K, Vucur M, Koppe C, Heymann F, Haybaeck J, Weber A, Weiskirchen R, Liedtke C, Gassler N, Müller M, Akira S, Tacke F, **Heikenwalder M**, Trautwein C, and Luedde T. TAK1 suppresses a NEMO-dependent, but NF- κ B independent pathway to liver cancer.
Cancer Cell 2010 May 18; 17(5):481-96. **IF: 31,74**
37. Eisele, Y., Obermüller, U., Heilbronner, G., Baumann, F., Kaeser, S., Wolburg, H., Walker L., Staufenbiel, M., **Heikenwalder, M.**, Jucker, M. Peripherally Applied Ab-Containing Inoculates Induce Cerebral b-Amyloidosis.
Science 2010 Nov 12; 330(6006):980-2. **IF: 41,8**
38. 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; 16:295-308. **IF: 26,6**
39. **Heikenwalder M**, Kurrer MO, Margalith I, Kranich J, Zeller N, Haybaeck J, Polymenidou M, Matter M, Bremer J, Jackson WS, Lindquist S, Sigurdson CJ, Aguzzi A. Lymphotoxin-dependent prion replication in inflammatory stromal cells of granulomas.
Immunity 2008 Dec 19; 29(6):998-1008. **IF: 22,5**
40. Seeger H,* **Heikenwalder M,*** Zeller N,* Kranich J, Schwarz P, Gaspert A, Seifert B, Miele G, Aguzzi A. Coincident scrapie infection and nephritis lead to urinary prion excretion.
Science 2005 Oct 14; 310(5746):324-6. **IF: 47,72** *co-first author
41. **Heikenwalder M***, Zeller N*, Seeger H*, Prinz M*, Klöhn PC, Schwarz P, Ruddle N, Weissmann C, Aguzzi A. Chronic lymphocytic inflammation specifies the organ tropism of prions.
Science 2005 Feb 18; 307(5712):1107-10. **IF: 47,72** *co-first author
42. **Heikenwalder M***, Polymenidou M*, Junt T, Sigurdson C, Wagner H, Akira S, Zinkernagel R, Aguzzi A. Lymphoid follicle destruction and immunosuppression after repeated CpG oligodeoxynucleotide administration.
Nature Medicine 2004 Feb; 10(2):187-92. **IF: 53,4** *co-first author
43. Prinz M,* **Heikenwalder M,*** Junt T, Schwarz P, Glatzel M, Heppner FL, Fu YX, Lipp M, Aguzzi A. Positioning of follicular dendritic cells within the spleen controls prion neuroinvasion.
Nature 2003 Oct 30; 425(6961):957-62. **IF: 49,9** *co-first author

Key-reviews, key commentaries:

(Last-, co-last, co-corresponding authorship; first and co-first authorship)

1. Gallage S, Avila JEB, Ramadori P, Focaccia E, Rahbari M, Ali A, Malek NP, Anstee QM, **Heikenwalder M**. A researcher's guide to preclinical mouse NASH models. *Nature Metabolism*. 2022 Dec;4(12):1632-1649. **IF: 19,86**
2. Li X, Ramadori P, Pfister D, Seehawer M, Zender L, **Heikenwalder M**. The immunological and metabolic landscape in primary and metastatic liver cancer. *Nature Reviews Cancer* 2021 Sep;21(9):541-557. **IF: 60,71**
3. Ramadori P, Li X, **Heikenwalder M**. PKC $\lambda/1$ Loss Induces Metabolic Reprogramming in Liver Cancer: Hitting Two Birds with One Stone? *Cancer Cell* 2020; 38(2):152-154. **IF: 31,74**
4. Anstee QM, Reeves HL, Kotsiliti E, Govaere O, **Heikenwalder M**. From NASH to HCC: current concepts and future challenges. *Nature Reviews Gastroenterology Hepatology* 2019; 16(7):411-428. **IF: 46,80**
5. Ramadori P, Klag T, Malek NP, **Heikenwalder M**. Platelets in chronic liver disease, from bench to bedside. *Journal of Hepatology Reports* 2019; 1(6):448-459. Published 2019 Oct 25. **IF: NL**
6. Ringelhan M, Pfister D, O'Connor T, Pikarsky E, **Heikenwalder M**. The immunology of hepatocellular carcinoma. *Nature Immunology* 2018 Mar; 19(3):222-232. Epub 2018 Jan 29. **IF: 25,60**
7. Jucker M, **Heikenwalder M**. Immune receptor for pathogenic α -synuclein. *Science* 2016; 353(6307):1498-1499. **IF: 47,72**
8. Gallage S, Kotsiliti E, Heikenwalder M. When Soluble Fibers Meet Hepatocellular Carcinoma: The Dark Side of Fermentation. *Cell Metabolism* 2018; 28(5):673-675. **IF: 27,28**
9. Weber A, **Heikenwalder M**. P(URI)fyng Novel Drivers of NASH and HCC: A Feedforward Loop of IL17A via White Adipose Tissue. *Cancer Cell* 2016; 30(1):15-17. **IF: 31,74**
10. Aguzzi A, **Heikenwalder M**. Pathogenesis of prion diseases: current status and future outlook. *Nature Reviews in Microbiology* 2006 Oct; 4(10):765-75. **IF: 60,63**
11. Aguzzi A, **Heikenwalder M**. Prions, cytokines, and chemokines: a meeting in lymphoid organs. *Immunity* 2005 Feb; 22(2):145-54. **IF: 31,74**
11. Aguzzi A, **Heikenwalder M**. Prion diseases: Cannibals and garbage piles. *Nature* 2003 May 8; 423(6936):127-9. **IF: 49,9**