

ZUCKERMANN, MARC, PH.D

GENERAL INFORMATION



Group Leader

Hopp Children's Cancer Center at the NCT Heidelberg (KITZ)
German Cancer Research Center (DKFZ), Division of Pediatric
Neurooncology, Preclinical modeling Group
Im Neuenheimer Feld 280, 69120 Heidelberg, Germany

B07N

ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
2009-2011	Master of Science in Cell Biology, University of Osnabrueck, Germany
2006-2009	Bachelor of Science in Cell Biology, University of Osnabrueck, Germany

SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
2012-2016	PhD in Molecular Genetics, German Cancer Research Center, Heidelberg, Germany, Grade: Summa cum laude, Supervisor: Prof. Peter Lichter

PROFESSIONAL EXPERIENCE

Year(s)	Experience
2019-present	Group leader of Preclinical modeling, Division of Pediatric Neurooncology, DKFZ
2019	Research stay – Laboratory of Paul Northcott and Suzanne Baker, St. Jude Children's Research Hospital, Memphis, Tennessee, USA
2016-2019	PostDoc – Division of Pediatric Glioma Research, DKFZ
2011-2012	Research stay – Laboratory of Ray Lu, University of Guelph, Guelph, Ontario, Canada

OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

Year(s)	Qualifications/Roles/Responsibilities
2023	ERC Starting Grant
2020	Co-applicant SWISS BRIDGE Award 2020
2019	Ian's Friends Foundation, WhatIFF grant
2018	DAAD „Forschungsstipendium für promovierte Nachwuchswissenschaftler“

SELECTED PUBLICATIONS

- Jones D T, Hutter B, Jäger N, Korshunov A, Kool M, Warnatz H J, Zichner T, Lambert S R, Ryzhova M, Quang D A, Fontebasso A M, Stütz A M, Hutter S, Zuckermann M, Sturm D, Gronych J, Lasitschka B, Schmidt S, Seker-Cin H, Witt H, Sultan M, Ralser M, Northcott P A, Hovestadt V, Bender S, Pfaff E, Stark S, Faury D, Schwartzenruber J, Majewski J, Weber U D, Zapatka M, Raeder B, Schlesner M, Worth C L, Bartholomae C C, von Kalle C, Imbusch C D, Radomski S, Lawerenz C, van Sluis P, Koster J, Volckmann R, Versteeg R, Lehrach H, Monoranu C, Winkler B, Unterberg A, Herold-Mende C, Milde T, Kulozik A E, Ebinger M, Schuhmann M U, Cho Y J, Pomeroy S L, von Deimling A, Witt O, Taylor M D, Wolf S, Karajannis M A, Eberhart C G, Scheurlen W, Hasselblatt M, Ligon K L, Kieran M W, Korbel J O, Yaspo M L, Brors B, Felsberg J, Reifenberger G, Collins V P, Jabado N, Eils R, Lichter P, Pfister S M. Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. **Nat Genet.** 2013 Aug;45(8):927-932
- Zuckermann M, Hovestadt V, Knobbe-Thomsen C B, Zapatka M, Northcott P A, Schramm K, Belic J, Jones D T, Tschida B, Moriarity B, Largaespada D, Roussel M F, Korshunov A, Reifenberger G, Pfister S M, Lichter P, Kawachi D, Gronych J. Somatic CRISPR/Cas9-mediated tumour suppressor disruption enables versatile brain tumour modelling. **Nat Commun.** 2015 Jun;6:7391

3. [Zuckermann M](#), Kawauchi D, Gronych J. "CRISPR" validation of recessive brain cancer genes in vivo. **Oncotarget**. 2015 Jul;6(20):17865-17866
4. Feng W, Kawauchi D, Korkel-Qu H, Deng H, Serger E, Sieber L, Lieberman J A, Jimeno-Gonzalez S, Lambo S, Hanna B S, Harim Y, Jansen M, Neuerburg A, Friesen O, [Zuckermann M](#), Rajendran V, Gronych J, Ayrault O, Korshunov A, Jones D T, Kool M, Northcott P A, Lichter P, Cortes-Ledesma F, Pfister S M, Liu H K. Chd7 is indispensable for mammalian brain development through activation of a neuronal differentiation programme. **Nat Commun**. 2017 Mar;8:14758
5. [Zuckermann M](#), Kawauchi D, Gronych J. Applications of the CRISPR/Cas9 system in murine cancer modeling. **Brief Funct Genomics**. 2017 Jan;16(1):25-33
6. [Zuckermann M](#), Hlevnjak M, Yazdanparast H, Zapatka M, Jones D T W, Lichter P, Gronych J. A novel cloning strategy for one-step assembly of multiplex CRISPR vectors. **Sci Rep**. 2018 Nov 30;8(1):17499
7. Pajtler K W, Wei Y, Okonechnikov K, Silva P B G, Vouri M, Zhang L, Brabetz S, Sieber L, Gulley M, Mauermann M, Wedig T, Mack N, Imamura Kawasawa Y, Sharma T, [Zuckermann M](#), Andreiuolo F, Holland E, Maass K, Korkel-Qu H, Liu H K, Sahm F, Capper D, Bunt J, Richards L J, Jones D T W, Korshunov A, Chavez L, Lichter P, Hoshino M, Pfister S M, Kool M, Li W, Kawauchi D. YAP1 subgroup supratentorial ependymoma requires TEAD and nuclear factor I-mediated transcriptional programmes for tumorigenesis. **Nat Commun**. 2019 Sep;10(1):3914
8. Clarke M, Mackay A, Ismer B, Pickles J C, Tatevossian R G, Newman S, Bale T A, Stoler I, Izquierdo E, Temelso S, Carvalho D M, Molinari V, Burford A, Howell L, Virasami A, Fairchild A R, Avery A, Chalker J, Kristiansen M, Hauptfear K, Dalton J D, Orisme W, Wen J, Hubank M, Kurian K M, Rowe C, Maybury M, Crosier S, Knipstein J, Schüller U, Kordes U, Kram D E, Snuderl M, Bridges L, Martin A J, Doey L J, Al-Sarraj S, Chandler C, Zebian B, Cairns C, Natrajan R, Boulton J K R, Robinson S P, Sill M, Dunkel I J, Gilheaney S W, Rosenblum M K, Hughes D, Proszek P Z, Macdonald T J, Preusser M, Haberler C, Slavc I, Packer R, Ng H K, Caspi S, Popović M, Faganel Kotnik B, Wood M D, Baird L, Davare M A, Solomon D A, Olsen T K, Brandal P, Farrell M, Cryan J B, Capra M, Karremann M, Schittenhelm J, Schuhmann M U, Ebinger M, Dinjens W N M, Kerl K, Hettmer S, Pietsch T, Andreiuolo F, Driever P H, Korshunov A, Hiddingh L, Worst B C, Sturm D, [Zuckermann M](#), Witt O, Bloom T, Mitchell C, Miele E, Colafati G S, Diomedi-Camassei F, Bailey S, Moore A S, Hassall T E G, Lewis S P, Tsoli M, Cowley M J, Ziegler D S, Karajannis M A, Aquilina K, Hargrave D R, Carceller F, Marshall L V, von Deimling A, Kramm C M, Pfister S M, Sahm F, Baker S J, Mastronuzzi A, Carai A, Vinci M, Capper D, Popov S, Ellison D W, Jacques T S, Jones D T W, Jones C. Infant High-Grade Gliomas Comprise Multiple Subgroups Characterized by Novel Targetable Gene Fusions and Favorable Outcomes. **Cancer Discov**. 2020 Jul; 10(7):942-963
9. Ernst K J, Okonechnikov K, Bageritz J, Mallm J-P, Wittmann A, Maaß K K, Leible S, Boutros M, Pfister S M, [Zuckermann M](#), Jones D T W. Establishment of a simplified preparation method for single-nucleus RNA-sequencing and its application to long-term frozen tumor tissues. **bioRxiv**. 2020:2020.2010.2023.351809