CURRICULUM VITAE

Personal Information

Name: **Nicole Amberg** **ORCID ID**: 0000-0002-3183-8207
Website: www.nicoleamberg.com **Date of PhD Defense**: 30.11.2016
Address: Medical University of Vienna, Department of Neurology, Division of Neuropathology and Neurochemistry
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Research Expertise

Neuroscience, Developmental Neuroscience, Oncology, Neuro-oncology, Epigenetics, Molecular Biology, single-cell

Education

11/2016	**PhD** in the doctoral college of the international PhD program "Inflammation and Immunity" in the lab of **Professor Maria Sibilia, Medical University of Vienna**, Austria
2011	**BSc in Zoology** at the **University of Vienna**, Austria
2010	**Diploma (equals BSc + MSc) in Molecular Biology** at the **University of Vienna**, Austria, *summa cum laude*

Academic Positions

2024	**Visiting researcher** in the lab of **Professor Kathleen Millen, Seattle Children's**, USA (August 2024)
2022 – present	**Senior researcher / Principle Investigator** in the Department of Neurology, Division of Neuropathology and Neurochemistry, **Medical University of Vienna**, Austria;
2016 – 2022	**Postdoctoral researcher** in the lab of **Professor Simon Hippenmeyer, Institute of Science and Technology (IST) Austria**, Klosterneuburg, Austria;
2012 – 2014	**Visiting researcher** in the lab of **Professor Cedric Blanpain, Université Libre Bruxelles**, Belgium (from August – October 2012, April 2013, March 2014)
2011 – 2016	**PhD student** in the lab of Professor **Maria Sibilia, Medical University of Vienna**, Austria; **Thesis**: The role of inflammation on stem cells of the skin
2009 – 2010	**Diploma thesis** (equivalent to Master thesis) for completion of Molecular Biology studies in the lab of **Professor Maria Sibilia, Medical University of Vienna**, Austria; **Thesis**: The role of Langerhans cells in skin cancer growth and immune response to Imiquimod
2009	**Bachelor thesis** for completion of Zoology studies in the labs of **Professor Helge Hilgers and Professor Manfred Walzl, University of Vienna**, Austria; **Thesis**: The pectoral girdle of the salmonid *Oncorhynchus mykiss* – Comparison of three different developmental stages

Fellowships and Grants

10/2024	**Science Communication Grant "WissKomm"** for the development of an audiostory for kids, which can be accessed through a 3D printed brain with NFC tag, provided by FWF (Austrian Science Fund), **99,460.20 €**
07/2024	**Research Grant** as Co-PI from *Margaretha Hehberger-Krebsforschungsfonds* for project entitled "Dissection of cell-autonomous and global-tissue mechanisms of pediatric brain tumor development using patient-derived cerebral organoids", **38,000 €**
07/2024	**Four Grants at the FFG "Talent Summer 2024" program** for summer intern projects, **total of 4,800 €**
12/2023	**Senior Postdoctoral Elise-Richter-Fellowship** for my project entitled "The role of PRC2 in brain development at single cell level" provided by *FWF (Austrian Science Fund)*, **315,120 €**
07/2023	**Research Grant** for project entitled "Identification of the cell-of-origin in brain tumors caused by germline mutations in DNA mismatch repair genes through integrative multimodal analysis of molecular profiles from patient tumor biopsies and the healthy developing human brain" provided by *Fellinger Krebsforschungs Verein (Fellinger Association for Cancer Research)*, **20,000 €**
07/2023	**Four Grants at the "Talent Summer 2023" program** for summer intern projects, provided by *FFG (Austrian Research Promotion Agency)*, **total of 4,800 €**
10/2022	**Travel Grant "International Communication"** for participation at the Development and 3D Models of the Human Brain CSHL Meeting, USA, provided by *OEFG (Austrian Science Association),* **700 €**
11/2021	**Science Communication Grant "WissKomm"** for the development of a Virtual Reality App allowing to experience stem cell research in neuroscience, provided by FWF (Austrian Science Fund), **49,873.95 €**
03/2020	**Travel Grant "International Communication"** for presentation of postdoctoral work at the 2nd Neuroepigenetics & Neuroepitranscriptomics Conference, Bahamas, provided by *OEFG (Austrian Science Association),* **650 €**
2018 – 2021	**Postdoctoral Hertha-Firnberg-Fellowship** for my postdoctoral project entitled "The role of *Eed* in neural stem cell lineage progression" provided by *FWF (Austrian Science Fund)*, **243,120 €**
2005 – 2010	**Fellowship for excellent undergraduate studies** from *Prof. Dr. Zerweck-/Cassella-Foundation,* **13,750 €**

Prizes and Awards

01/2025	**Award for Outstanding Contribution to Science Communication** by the Medical University of Vienna
12/2023	**Marion Gröger Award** 2023 by the Imaging Facility of the Medical University of Vienna
09/2023	**Young Investigator Award** 2023 by the Medical Neuroscience Cluster of the Medical University of Vienna
03/2021	**Poster Prize** at the virtual SY-Stem Meeting at IMBA & IMP, Vienna, Austria
09/2020	**Wissen schaf[f]t Zukunft Research Award** of the State of Lower Austria in the category Call for Concept on "STEM fatale – Aiming at gender equality in leadership positions in STEM"
03/2020	**Poster Prize** at the 2nd Neuroepigenetics & Neuroepitranscriptomics Conference, Bahamas
02/2016	**Poster Prize** at the 7th International Workshop of the PhD Program IAI, Vienna, Austria
10/2015	**Pfizer Poster Prize** at the International Symposium Stem cells of the skin, Santander, Spain
11/2011	**Young Scientist Award** at the 12th International Workshop on Langerhans cells, Innsbruck, Austria

Teaching and Supervision Experience

2023 – present	**Supervision/mentorship** of 1 master student, 3 bachelor students and 15 rotation students
2023 – present	**Coordinator** of the MedUni graduate school **Thesis Seminar** "Neuro Progress Report"
2023	**Coordinator** of the MedUni graduate school **Journal Club** "Neurooncology & Neuroinflammation"
2023 – present	**Lecturer** at the MedUni graduate school's Lecture "CLINS Basic Lecture" (highest rating)
2021/2022	**Lecturer** at IST Austria graduate school's Course /Lecture "Methods in Neuroscience" (highest rating)
2021	**Lecturer** at IST Austria graduate school's Core Course for the part "Scientific Presentation"
2016 – 2022	**Supervision/mentorship** of 3 PhD students, 5 rotation students (as part of the curriculum of the graduate school at IST Austria), and 2 students of the "ISTern" summer internship program
2015 – 2016	**Supervision/mentorship** of 1 master student
2014 – 2015	**Supervision/mentorship** of 3 bachelor students and 8 scientific interns

Academic Service

2020 – present	**Review activities** for Development, STAR Protocols, Cell Community, Life Science Alliance
2020 – 2022	**Occasional organizational responsibilities** for weekly Neuroscience Data Talk series at IST Austria
2018 – 2021	**Participation in the Postdoc Association** at IST Austria, such as elected representative 2017-2018
2014 / 2015	**Main coordinator** of the organizing committee of the 4th and 5th "International Inflammation and Immunity (IAI) PhD Workshop", Medical University of Vienna, Austria

Mentoring, Diversity & Inclusion Activities

03/2022	**Invited speaker** for a "Women in STEAM Careers" talk organized by the Austrian Embassy Manila, Philippines
10/2021	**Invited speaker** for a "Salongespräch" on Women in Science, a 'culture meets science' event organized by the Fraunhofer Institute IPK and the Austrian Embassy Berlin, Germany
2021	**Participant** in IST Austria's "Women in Science – Change the world!" photo exhibition
2021	**Committee member** of "WoMen in Science" Event Focus 2021 at IST Austria
2019 – 2022	**Development and host** of "STEM fatale – Women on a Scientific Mission" lecture series at IST Austria

Outreach and Science Education Activities

2023 – present	Active participation at **public outreach and science communication events** at the Medical University Vienna by giving lab tours or participating in science exhibitions
06/2023	**Organizer of a creativity contest** for 10-14y old teenagers on the topic "Women in Tech" with approximately 350 participants (*http://stem-fatale.com/kreativwettbewerb-2023*)
04/2023	**Invited Speaker** at the 'Viennese Girls Day 2023' in the Viennese Town Hall
05/2022	**Winner at Viennese Science Slam 2022** during the *Long Night of Research* "Farbe ins Leben bringen"
04/2022	**Role Model** at the 'Austrian Girls Day 2022' at IST Austria, in IST Austria's 'Zoom a Scientist', in various media interviews (Podcasts, Magazines, Newspaper articles), and public science events in Vienna
03/2022	**Organizer of a creativity contest** for 10-14y old teenagers on the topic "Women in Science" with approximately 600 participants (*http://stem-fatale.com/kreativwettbewerb*)
08/2021	Participant at the **Science Outreach Workshop** at FENS Regional Meeting 2021, virtual, Poland.
2016 – 2023	Active participation at annual **public outreach and science communication events** at IST Austria: lab tours, science exhibitions, science slam, jury for school contest: *Open Campus, A Night on Campus, Summer Campus, Summer University*
2012 – 2016	Active participation at **public outreach and science communication events** at the Institute of Cancer Research, Vienna by giving lab tours or participating in science exhibitions

Previous collaboration partners

Prof. Johann Danzl, Institute of Science and Technology Austria
Prof. Gaia Novarino, Institute of Science and Technology Austria
Prof. Denis Jabaudon, Université de Genève, Switzerland
Prof. Laurent Nguyen, GIGA, Liege, Belgium
Prof. Bernhard Homey, Heinrich Heine University, Dusseldorf, Germany
Prof. Cédric Blanpain / Dr. Panagiota Sotiropoulou. Université Libre Bruxelles, Belgium
Prof. Patrizia Stoitzner / Prof. Nikolaus Romani, Medical University of Innsbruck

Current collaboration partners

Prof. Victor Borrell, Alicante, Spain (ETMR)
Prof. Aparna Badhuri, University of California Los Angeles, USA (fetal brain electron microscopy)
Prof. Frank Edenhofer, University of Innsbruck, Austria (ageing of the human brain)
Prof. Mariella Filbin, Dana Faber Cancer Institute, Boston, USA (gene expression analysis of pediatric brain tumors)
Prof. Kathleen Millen, Seattle Children's Research Institute, USA (mechanisms of cerebellar development)
Dr. Parthiv Haldipur, Seattle Children's Research Institute, USA (mechanisms of cerebellar development)
Dr. Andreas Deuchert, University of Zurich, Switzerland (mathematical modelling of hindbrain development)
Prof. Doris Heinrich, Technical University Ilmenau, Germany (nano-scaffolding and cell culture systems)
Prof. Andreas Schober, Technical University Ilmenau, Germany (nano-scaffolding and cell culture systems)
Prof. Anna Grisold, Medical University of Vienna, Austria (patient consent for iPSC generation)
Dr. Sara Silvaieh, Medical University of Vienna, Austria (patient consent for iPSC generation)
Prof. Amedeo Azizi, Medical University of Vienna, Austria (patient consent for iPSC generation)
Prof. Johannes Gojo, Medical University of Vienna, Austria (patient consent for iPSC generation)
Prof. Christine Haberler, Medical University of Vienna, Austria (patient consent for iPSC generation)
Prof. Andreas Peyrl, Medical University of Vienna, Austria (patient consent for iPSC generation)
Prof. Katharina Wimmer, Medical University of Innsbruck, Austria (patient consent for iPSC generation)
Prof. Matthias Preusser, Medical University of Vienna, Austria (patient consent for iPSC generation)
Prof. Nina Worel, Medical University of Vienna, Austria (patient consent for iPSC generation)

Invitations to Conference and Seminar Talks

2024

- Joint Swiss – Austrian Neuropathology Symposium, Vienna, Austria
  Talk: Modeling neurodevelopmental diseases with patient-derived iPSCs
- **Institute Seminar**, University for Veterinary Medicine, Vienna, Austria
  Talk: Being up to date in cancer research

2023

- **Institute Colloquium**, iba Heiligenstadt, Technical University of Ilmenau, Germany
  Talk: One for all, all for one? Cell-cell interactions during brain development
- **Austrian Neuroscience Wintermeeting 2023**, Vienna, Austria
  Talk: Tissue-wide genetic and cellular landscape shapes the execution of sequential PRC2 functions in neural stem cell lineage progression

2021

- **Austrian Neuroscience Association (ANA) Meeting 2021**, Salzburg, Austria.
  Talk: Distinct and sequential function of PRC2 in radial glia lineage progression
- **Horizons in Molecular Biology**, Career Fair, International PhD Symposium organized by the Molecular Biology Program - International Max Planck Research School at the University of Göttingen, Germany.
  Talk: The STEM fatale Initiative – towards gender equality in leadership positions in STEM.

2020

- **Glia in Health and Disease,** virtual conference, Cold Spring Harbor Laboratories, USA
  Talk: Mosaic Analysis with Double Markers (MADM) Reveals Sequential Functions of PRC2 in Radial Glia Lineage Progression and Essential Role in Cortical Astrogliogenesis
- **3rd Development and Stem Cells Regional Meeting**, IST Austria, Austria.
  Talk: Genetic Dissection of PRC2 Core Component *Eed* in Neural Stem Cell Lineage Progression

2017

- **Anna Spiegel Center of Translational Research Seminar Series**, Medical University of Vienna, Austria.
  Talk: Epidermal EGFR controls hair shaft differentiation in a p53-dependent manner.

2015

- **1st Joint International IAI-CCHD Symposium**, Medical University of Vienna, Austria.
  Talk: The role of EGFR signaling in skin stem cells.

2013

- **Inflammatory skin disease seminar series**, Medical University of Innsbruck, Austria
  Talk: Loss of epidermal EGFR signaling induces severe skin inflammation and hair loss.
- **Nature Cancer Symposium**, Madrid, Spain.
  Talk: The role of EGFR in Hepatocellular Carcinoma.

Other Selected Conference Contributions

2024

- **Berlin Brain Tumor Meeting**, Berlin, Germany
  Poster: The power of the cellular microenvironment in governing neural stem cell behavior

2023

- **1st Heidelberg Cancer Neuroscience Meeting**, Heidelberg, Germany
  Poster: The power of the cellular microenvironment in governing neural stem cell behavior

2022

- **Development and 3D Modelling of the Human Brain**, Cold Spring Harbor Laboratories, USA
  Poster: Meta-analysis of transcriptional and epigenetic profiles of tumors associated with germline mismatch repair disease across brain regions and developmental time
- **Cortical Development**, Sicily, Italy
  Poster: Tissue-wide genetic and cellular landscape shapes the execution of sequential PRC2 functions in neural stem cell lineage progression

2021

- **FENS Regional Meeting**, virtual, Poland
  Poster: Distinct and sequential function of PRC2 in radial glia lineage progression
- **SY-Stem** virtual Meeting, IMBA & IMP, Vienna, Austria
  Poster: Distinct and sequential function of PRC2 in radial glia lineage progression

2020

- **EMBO Workshop Neuroepigenetics**: from cells to behavior and disease, Heidelberg, Germany
  Poster: Distinct and sequential function of PRC2 in radial glia lineage progression
- **2nd Neuroepigenetics and Neuroepitranscriptomics Conference**, Nassau, Bahamas
  Poster: Genetic dissection of PRC2 function in neural stem cell lineage progression.

2019

- **3rd AXON Meeting**: Circuits development and axon regeneration, Alicante, Spain
  Poster: Role of PRC2 core component *Eed* in neural stem cell lineage progression

2020

- **7th International Workshop** of the PhD Program IAI, Medical University of Vienna, Austria.
  Poster: The role of EGFR signaling in skin stem cells.

2015

- **Stem cells of the skin: target and cure for disease** - International Symposium, Santander, Spain.
  Poster: Epidermal EGFR controls hair layer differentiation during morphogenesis.

2011

- **12th International Workshop on Langerhans cells**, Innsbruck, Austria.
  Poster: Analysis of Imiquimod function in the absence of Langerin positive cells in the skin.

Membership in Scientific Societies

Since 2024 **EANO Member**
Since 2024 **Extended Board Member** in the Austrian Neuroscience Association (**ANA**)
Since 2023 **EACR Member**
Since 2021 **FENS Member** through Membership of the Austrian Neuroscience Association (ANA)

Published Articles (peer-reviewed journals

1. Alexander Beck, Lisa Gabler, Gustavo A. V. Cruzeiro, Sander Lambo, Bernhard Englinger, McKenzie L. Shaw, Olivia A. Hack , Ilon Liu, Rebecca D. Haase, Carlos A. O. de Biagi Jr, Alicia C. Baumgartner, Andrezza Nascimento, Marbod Klenner, Pia S. Freidel, Jochen Herms, Louisa von Baumgarten, Joerg C. Tonn, Niklas Thon, Katharina Bruckner, Sibylle Madlener, Lisa Mayr, Daniel Senfter, Andreas Peyrl, Irene Slavc, Daniela Lötsch, Christian Dorfer, Rene Geyregger, **Nicole Amberg**, Christine Haberler, Norman Mack, Benjamin Schwalm, Stefan M. Pfister, Andrey Korshunov, Lissa Baird, Edward Yang, Susan N. Chi, Sanda Alexandrescu, Johannes Gojo, Marcel Kool, Volker Hovestadt, Mariella G. Filbin
   Cellular hierarchies of ETMR are shaped by oncogenic microRNAs and receptor-ligand interactions
   In press
2. **Amberg N***, Cheung G*, Hippenmeyer S.
   Sorting cells from mouse brains labelled with Mosaic Analysis with Double Markers by flow cytometry.
   STAR Protocols. 2023 Dec 8;5(1):102771. doi: 10.1016/j.xpro.2023.102771.
3. Michalska JM, Lyudchick J, Velicky P, Stefanickova H, Watson JF, Cenameri A, Sommer C, **Amberg N**, Venturino A, Roessler K, Czech T, Höftberger R, Siegert S, Novarino G, Jonas P, Danzl JG.
   Uncovering brain tissue architecture across scales with super-resolution light microscopy.
   Nat. Biotechnol. 2023 Aug 31, doi:10.1038/s41587-023-01911-8.
4. Knaus LS, Basilico B, Malzl D, Gerykova Bujalkova M, Smogavec M, Schwarz LA, Gorkiewicz S, **Amberg N**, Pauler F, Rülicke T, Menche J, Hippenmeyer S, Novarino G.
   Large neutral amino acid levels tune perinatal neuronal excitability and survival.
   Cell. 2023 Apr 27;186(9):1950-1967.e25. doi: 10.1016/j.cell.2023.02.037.
5. **Amberg N**, Pauler F, Streicher C, Hippenmeyer S.
   Tissue-wide genetic and cellular landscape shapes the execution of distinct and sequential PRC2 functions in neural stem cell lineage progression.
   Sci Adv. 2022 Nov 4;8(44):eabq1263. doi: 10.1126/sciadv.abq1263.
6. **Amberg N** and Hippenmeyer S.
   Genetic dissection of candidate genes in genetic mosaic mice using Mosaic Analysis with Double Markers
   STAR Protocols. 2021 Dec 17;2(4) *eCollection.* doi: 10.1016/j.xpro.2021.100939
7. Contreras X, **Amberg N**, Davaatseren A, Hansen AH, Sonntag J, Andersen L, Bernthaler T, Heger A, Johnson R, Schwarz LA, Luo L, Rülicke T, Hippenmeyer S.
   A genome-wide library of MADM mice for single-cell genetic mosaic analysis.
   Cell Rep. 2021 Jun 22;35(12):109274. doi: 10.1016/j.celrep.2021.109274.
8. Laukoter S, **Amberg N**, Pauler F, Hippenmeyer S.
   Generation and isolation of single cells with MADM-induced uniparental chromosome disomy (UPD) to probe genomic imprinting.
   STAR Protocols, eCollection. doi: 10.1016/j.xpro.2020.100215.
9. Hippe A*, Braun SA*, Oláh P, Gerber PA, Schorr A, Seeliger S, Müller S, Jannasch K, Pivarcsi A, Buhren B, Schrumpf H, Kislat A, Bünemann E, Steinhoff M, Fischer J, Lira S, Boukamp P, Hevezi P, Stoecklein NH, Hoffmann T, Alves F, Sleeman J, Bauer T, KlufaJ, **Amberg N**, Sibilia M, Zlotnik A, Müller-Homey A*, and Homey B*.
   EGFR/Ras-induced CCL20 production critically modulates the tumor microenvironment.
   Br J Cancer. 2020 Sept 123(6):942-954. doi: 10.1038/s41416-020-0943-2.
10. Laukoter S*, Pauler F*, Beattie R, **Amberg N**, Hansen A, Streicher C, Penz T, Bock C, Hippenmeyer S.
    Cell-type specificity of genomic imprinting in cerebral cortex.
    Neuron. 2020 Jul 15:S0896-6273(20)30485-2. doi: 10.1016/j.neuron.2020.06.031.
11. Beattie R, Streicher C, **Amberg N**, Cheung G, Contreras X, Hansen AH, Simon Hippenmeyer S.
    Lineage tracing and clonal analysis in the developing cerebral cortex by using Mosaic Analysis with Double Markers (MADM).
    J Vis Exp. 2020 May 8;(159). doi: 10.3791/61147.
12. Laukoter S*, Pauler F*, Beattie R*, **Amberg N**, Nakayama K, Hippenmeyer S.
    Unexpected role of the imprinted *Cdkn1c* genomic locus in cortical neurogenesis.
    Nature Communications 2020 Jan 10;11(1):195. doi: 10.1038/s41467-019-14077-2.

13. Telley L*, Agirman G*, Prados J, **Amberg N**, Fièvre S, Oberst P, Bartolini G, Vitali I, Cadilhac C, Hippenmeyer S, Nguyen L, DayerA, Jabaudon D.
Temporal patterning of apical progenitors and their daughter neurons in the developing neocortex.
Science. 2019 May 10;364(6440). pii: eaav2522. doi: 10.1126/science.aav2522.

14. **Amberg N**, Sotiropoulou P, Heller G, Lichtenberger BM, Camurdanoglu B, Holcmann M, Baykusheva-Gentscheva T, Blanpain C,Sibilia M.
Epidermal EGFR controls hair shaft differentiation in a p53-dependent manner.
iScience. 2019 Apr 17;15:243-256. doi: 10.1016/j.isci.2019.04.018. ***[Cover Story]***

15. Srivatsa S*, Paul MC*, Cardone C, Holcmann M, **Amberg N**, Pathria P, Diamanti MA, Linder M, Timelthaler G, Dienes HP,Kenner L, Wrba F, Prager GW, Rose-John S, Eferl R, Liguori G, Botti G, Martinelli E, Greten FR, Ciardiello F, Sibilia M.
EGFR in tumor-associated myeloid cells promotes development of colorectal cancer in mice and associates with outcomes ofpatients.
Gastroenterology. 2017 Jul;153(1):178-190.e10. doi: 10.1053/j.gastro.2017.03.053.

16. **Amberg N**, Holcmann M, Stulnig G, Glitzner E, Sibilia M.
Effects of different depilation methods on Imiquimod induced skin inflammation.
J Invest Dermatol. 2017 Feb;137(2):528-531. doi: 10.1016/j.jid.2016.09.018.

17. **Amberg N**, Holcmann M, Stulnig G, Sibilia M.
Effects of Imiquimod on hair follicle stem cells and hair cycle progression.
J Invest Dermatol. 2016 Nov;136(11):2140-2149. doi: 10.1016/j.jid.2016.06.613.

18. Glitzner E, Korosec A, Brunner PM, Drobits B, **Amberg N**, Schonthaler HB, Kopp T, Wagner EF, Stingl G, Holcmann M, Sibilia M. Specific roles for dendritic cell subsets during initiation and progression of psoriasis.
EMBO Mol Med. 2014 Sep 12;6(10):1312-27. doi: 10.15252/emmm.201404114.

19. Lanaya H*, Natarajan A*, Komposch K*, Li L, **Amberg N**, Chen L, Wculek SK, Hammer M, Zenz R, Peck-Radosavljevic M, Sieghart W, Trauner M, Wang H, Sibilia M.
EGFR has a tumour-promoting role in liver macrophages during hepatocellular carcinoma formation.
Nat Cell Biol. 2014 Oct;16(10):972-81, 1-7. doi: 10.1038/ncb3031.

20. Sparber F, Scheffler JM, **Amberg N**, Tripp CH, Heib V, Hermann M, Zahner SP, Clausen BE, Reizis B, Huber LA, Stoitzner P, Romani N.
The late endosomal adaptor molecule p14 (LAMTOR2) represents a novel regulator of Langerhans cell homeostasis.
Blood. 2014 Jan 9;123(2):217-27. doi: 10.1182/blood-2013-08-518555. ***[Cover Story]***

21. Lichtenberger BM*, Gerber PA*, Holcmann M*, Buhren BA, **Amberg N**, Smolle V, Schrumpf H, Boelke E, Ansari P, Mackenzie C, Wollenberg A, Kislat A, Fischer JW, Röck K, Harder J, Schröder JM, Homey B, Sibilia M.
Epidermal EGFR controls cutaneous host defense and prevents inflammation.
Sci Transl Med. 2013 Aug 21;5(199):199ra111. doi: 10.1126/scitranslmed.3005886.

22. Drobits B*, Holcmann M*, **Amberg N**, Swiecki M, Grundtner R, Hammer M, Colonna M, Sibilia M.
Imiquimod clears tumors in mice independent of adaptive immunity by converting pDCs into tumor-killing effector cells.
J Clin Invest. 2012 Feb;122(2):575-85. doi: 10.1172/JCI61034.

Published Reviews, Assays and Comments (peer-reviewed journals)

1. **Amberg N**, Stouffer M, Vercellino I.
Operation STEM fatale – how an equity, diversity and inclusion initiative has brought us to reflect on the current challenges in cell biology and science as a whole.
J Cell Sci, 2022 Apr 15;135(8):jcs260017. doi: 10.1242/jcs.260017.
2. **Amberg N** and Beattie R.
To recombine or not to recombine, "*Reader's Pick*" Blog Feature for **eSfN** Online Journal
https://blog.eneuro.org/2020/06/readers-pick-june
3. **Amberg N***, Laukoter S* and Hippenmeyer S.
Epigenetic mechanisms contributing to cell type diversity during neural stem cell lineage progression.
J Neurochem, 2019 Apr;149(1):12-26. doi: 10.1111/jnc.14601.

Published Book Chapters

1. Villalba A*, **Amberg N***, Hippenmeyer S.
   Interplay of cell-autonomous gene function and tissue-wide mechanisms regulating radial glial progenitor lineage progression.
   From the book: ***Neocortical Neurogenesis in Development and Evolution*** *edited by Wieland Huttner.*
   Wiley 2023, ISBN 978-1-119-86080-8.

2. **Amberg N**, Holcmann M, Glitzner E, Novoszel P, Stulnig G,
   Sibilia M.Mouse models of nonmelanoma skin cancer.
   Methods Mol Biol. 2015;1267:217-50.
   From the book: ***Mouse models of Cancer – Methods and Protocols.***
   Springer 2015, ISBN 978-1-4939-2296-3. doi: 10.1007/978-1-4939-2297-0_10.

3. Holcmann M, **Amberg N**, Drobits B, Glitzner ES, Komposch K, Robson J, Savarese F, Srivatsa S, Stulnig G, Sibilia M.
   Mouse models of receptor tyrosine kinases.
   From the book: ***Receptor Tyrosine Kinases: Structure, Functions and Role in Human Disease.***
   Springer 2015, ISBN 978-1-4939-2052-5.