

### Research Experience

**Postdoctoral fellow**, *Laboratory of Systems Cancer Biology (Professor S. Tava-zoie), Rockefeller University, New York, USA.* since 06/2015

- Research focus on tumor immunology and systems cancer biology.
- Proficient in wide range of wet- and dry-lab techniques, including high-dimensional flow cytometry, systems biology approaches (RNA-seq, whole-exome sequencing, SNP calling, scRNA-seq, IP-mass spectrometry), mouse cancer models, in-vitro tumor immunology assays (cytotoxicity, crosspresentation, primary immune cell cultures), biochemistry, molecular biology.
- Enrolled in the graduate program in fulfillment of PhD requirements from 07/2017 - 06/2020 (expected).

**Resident and research fellow**, *Department of Hematology, Oncology and Tumor Immunology (Professor B. Dörken), Charité University Hospital, Berlin, Germany.* 11/2011–03/2015

- Conducted research on cancer stem cells in myelodysplastic syndromes and on graft-versus-host disease after hematopoietic stem cell transplantation.
- Performed clinical flow cytometry diagnostics.

**Doctoral candidate**, *Laboratory of Molecular Nephrology (Professor T. Huber), University of Freiburg, Freiburg, Germany.* 08/2007–02/2010

- Investigated the molecular mechanisms regulating the turnover of an essential protein of the kidney's filtration barrier.

### Patient Care

**Resident and research fellow**, *Department of Hematology, Oncology and Tumor Immunology (Professor B. Dörken), Charité University Hospital, Berlin, Germany.* 11/2011–03/2015

- Residency in Internal Medicine.
- Rotations in Hematology/Oncology, Cardiology, Gastroenterology, Palliative Care, Intensive Care Unit.

### Education

**Doctoral thesis**, *Albert-Ludwigs-University, Molecular Nephrology (Prof. T.B. Huber), Freiburg, Germany.* 01/2014

- Thesis title: A Novel Domain Regulating Degradation of the Glomerular Slit Diaphragm Protein Podocin.
- Grade 'summa cum laude'.

**Medical studies**, *Albert-Ludwigs-University, University of South Florida, Queen Mary University and Mount Sinai School of Medicine, Freiburg (Germany), Tampa (USA), London (UK) and New York (USA).* 10/2004–05/2011

- Final grade 1.0.

### Awards and Scholarships

**Helmsley Fellowship**, *Rockefeller University, New York, USA.* 12/2018

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|---|-----------------|
| <b>Postdoctoral Research Fellowship by the Deutsche Forschungsgemeinschaft (German Research Foundation), Rockefeller University, New York, USA.</b>   | 06/2015–05/2017 |
| <b>Conference scholarship by the European School of Hematology, 17th ESH - EBMT Training Course on Haematopoietic Stem Cell Transplantation, Syracuse, Italy.</b>   | 04/2013         |
| <b>Scholar of the German National Academic Foundation.</b>  | 09/2008–05/2011 |
| <b>Conference scholarships by the von-Kleist-Foundation and by the German National Academic Foundation, Annual Meeting of the American Society for Cell Biology, Philadelphia, USA.</b>   | 12/2010         |
| <b>Scholarships for exchange study programs by the German National Academic Foundation, University of South Florida, Queen Mary University and Mount Sinai School of Medicine, Tampa (USA), London (UK) and New York (USA).</b> | 02-10/2010      |
| <b>Prize for the best school leaving exam, Christianeum, Hamburg, Germany.</b>  | 06/2003         |
| <b>Internal scholarship, Oundle School, Oundle, UK.</b>   | 05/2001         |

## Academic Service

### Ad-hoc Reviewer.

- Cell (with Dr. Tavazoie)
- Nature Communications (with Dr. Tavazoie)
- JCI (with Dr. Tavazoie)
- Bone Marrow Transplantation
- Biology of Blood and Marrow Transplantation
- European Respiratory Journal

## Invited Lectures

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| <b>Dissecting the tumor-immunity cycle for precision cancer immunotherapy, Berlin Institute of Medical Systems Biology/Berlin Institute of Health, Berlin, Germany.</b> | 02/2020 |
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## Teaching and mentorship

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|--|-----------------|
| <b>Supervision of MD/PhD students.</b>   | 12/2015–present |
| <ul style="list-style-type: none"> <li>○ Alexander Epstein, PhD rotation student, 01/2020 - present</li> <li>○ Wenbin Mei, PhD rotation student, 09/2019 - 01/2020</li> <li>○ Jonathan Goldstein, visiting MD student, 09/2019 - 08/2020 (scheduled)</li> <li>○ Jana Bilanovic, biochemistry undergraduate student, 09/2018 - 10/2019</li> <li>○ Nneoma Adaku, MD/PhD rotation student, 07/2018 - 09/2018</li> <li>○ Ji-Young Kim, visiting MD student, 05/2018 - 04/2019</li> <li>○ Kimia Tafreshian, visiting MD student, 04/2017 - 03/2018</li> <li>○ Mathias Yuan, visiting MD student, 10/2016 -09/2017</li> <li>○ Christian Tessier-Lavigne, research assistant, 05/2016 -11/2016</li> <li>○ Fanny Matheis, PhD rotation student, 12/2015-02/2016</li> </ul> |                 |
| <b>Lectures, Rockefeller University, New York, USA.</b>  | 06/2015–present |
| <ul style="list-style-type: none"> <li>○ Common APOE germline variants modulate melanoma progression and survival, Stem Cell Retreat, 10/2019</li> <li>○ Mechanisms of resistance to LXR-targeting cancer therapy, Anderson Cancer Center Retreat, 05/2018</li> <li>○ Flow cytometry in assessing the tumor immune microenvironment, Scientific Techniques lecture series, 03/2017</li> </ul>  |                 |

**Clinical bedside teaching classes for medical students**, Department of Hematology, Oncology and Tumor Immunology, Charité University Hospital, Berlin, Germany.

11/2011–03/2015

**Medical education podcast: Hematological neoplasias.**

2013

Meditorium Podcasts (> 65,000 downloads of Meditorium until 11/2019)

## Knowledge and Technology Transfer

**APOE genotype in cancer prognostics.**

02/2019

US provisional patent 62/811,575

**Ostendorf BN**, Tavazoie SF

## References

Available upon request.

## Publications

### Original Articles

- [1] Tavora B, Mederer T, Wessel K, Ruffing S, Sadjadi M, Missmahl M, **Ostendorf BN**, Liu X, Kim JY, Olsen O, Welm AL, Goodarzi H, and Tavazoie SF (2020). Tumoural induction of slit2 axon-guidance signal in the endothelium drives metastasis. *Nature*, in press
- [2] **Ostendorf BN**, Bilanovic J, Adaku N, Tafreshian KN, Tavora B, Vaughan RD and Tavazoie SF (2020). Common germline variants of the human *APOE* gene modulate melanoma progression and outcome. *Nature Medicine*, in press
- [3] Tavazoie MF, Pollack I, Tanqueco R, **Ostendorf BN**, Reis BS, Gonsalves FC, Kurth I, Andreu-Agullo C, Derbyshire ML, Posada J, Takeda S, Tafreshian KN, Rowinsky E, Szarek M, Waltzman RJ, Mcmillan EA, Zhao C, Mita M, Mita A, Chmielowski B, Postow MA, Ribas A, Mucida D and Tavazoie SF (2018). Lxr/apoe activation restricts innate immune suppression in cancer. *Cell*, 172(4):825–840.e18
- [4] **Ostendorf BN**<sup>†</sup>, Flenner E, Flörcken A and Westermann J<sup>†</sup> (2018). Phenotypic characterization of aberrant stem and progenitor cell populations in myelodysplastic syndromes. *PLoS One*, 13(5):e0197823 (<sup>†</sup>corresponding authors)
- [5] Flörcken A, Takvorian A, Singh A, Gerhardt A, **Ostendorf BN**, Dörken B, Pezzutto A and Westermann J (2015). Myeloid-derived suppressor cells in human peripheral blood: Optimized quantification in healthy donors and patients with metastatic renal cell carcinoma. *Immunology Letters*, 168(2):260–267
- [6] **Ostendorf BN**, Blau O, Uharek L, Blau IW and Penack O (2015). Association between low uric acid levels and acute graft-versus-host disease. *Annals of Hematology*, 94(1):139–144
- [7] Gödel M\*, **Ostendorf BN**\*, Baumer J, Weber K and Huber TB (2013). A Novel Domain Regulating Degradation of the Glomerular Slit Diaphragm Protein Podocin in Cell Culture Systems. *PLOS ONE*, 8(2):e57078 (\*equal contribution)

### Reviews and Comments

- [1] **Ostendorf BN**<sup>†</sup> and Tavazoie SF<sup>†</sup> (2020). Autophagy suppresses breast cancer metastasis. *Developmental Cell*, 52(5):542–544 (<sup>†</sup>corresponding authors)

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- [2] **Ostendorf BN**, Hansmann L, Ludwig WD, Dörken B, Ratei R and Westermann J (2016). [Flow-cytometric immunophenotyping in clinical diagnostics]. *Dtsch Med Wochenschr*, 141(21):1569–1574
  - [3] **Ostendorf BN<sup>†</sup>**, le Coutre P, Kim TD and Quintás-Cardama A (2014). Nilotinib. *Recent results in cancer research Fortschritte der Krebsforschung Progrès dans les recherches sur le cancer*, 201:67–80 <sup>†</sup>(corresponding author)
  - [4] **Ostendorf BN** (2013). [Hematological neoplasias]. In: L Graaf and S Ewert (editors), *Meditorium Podcasts*
- Case Reports
- [1] **Ostendorf BN<sup>†</sup>**, Nogai H, Baldus CD, Burmeister T and Arnold R (2015). BCR-ABL Mutation-Guided Therapy for CML Blast Crisis: A Case Report. *Biomarker insights*, 10(Suppl 3):25–28 (<sup>†</sup>corresponding author)
  - [2] **Ostendorf BN<sup>†</sup>**, Terwey TH, Hemmati PG, Böhmer D, Pleyer U and Arnold R (2015). Severe radiotoxicity in an allogeneic transplant recipient with a heterozygous ATM mutation. *European Journal of Haematology*, 95(1):90–92 (<sup>†</sup>corresponding author)
  - [3] **Ostendorf BN<sup>†</sup>**, Jehn CF, Vuong LG, Nogai H, Hemmati PG, Gebauer B, Penack O, Blau IW, Anagnostopoulos I and Arnold R (2014). Synchronous tuberculosis, Epstein-Barr virus-associated lymphoproliferative disorder and cytomegalovirus infection in an allogeneic transplant recipient: a case report. *SpringerPlus*, 3(1):278 (<sup>†</sup>corresponding author)
  - [4] **Ostendorf BN**, Oehler RL and Greene JN (2011). Human Staphylococcus intermedius Infection in a Patient With Postradiation Changes. *Infectious Diseases in Clinical Practice*, 19(6):426–427

New York, April 6, 2020