

EXPERIENCE

Whitehead Institute for Biomedical Research

Cambridge, MA - USA

Postdoctoral Associate - Full time/Sive lab

Oct 2019-

- Neural Crest Cells, Brain and Craniofacial Development
- microcephaly, brain and congenital craniofacial disorders

Martin Luther University, Halle-Wittenberg

Halle/Saale, Germany

Postdoctoral Associate - Part time/Prof. Dr. Thomas Hollemann

July 2019-Sep 2019

- Functional analysis of Trim2 E3 ligase

Martin Luther University, Halle-Wittenberg

Halle/Saale, Germany

PhD/Prof. Dr. Thomas Hollemann

Jan 2013-Jun 2019

- Expressional and Functional analysis of Trim2 E3 ligase during early neurogenesis
- functional characterization through loss-of-function and gain-of-function analysis
- established two-hybrid system and LC-MS/MS proteomic screening for functional analysis and interaction partner/s identification
- 4 publications

Martin Luther University, Halle-Wittenberg

Halle/Saale, Germany

Graduate Research Assistant/Prof. Dr. Thomas Hollemann

Jan 2010-Dec 2012

- Mid1 mediated regulation of Pax6 during the formation of optic stalk
- 1 publication

EDUCATION

Martin Luther University, Halle-Wittenberg

Halle-Saale, DE

M.S. in Biomedical Engineering, GPA: 3.25/4.00

Oct 2006-Oct 2008

- Master Thesis: Max Planck Research Unit for Enzymology of Protein Folding/Prof. Dr. Gunter Fischer
- "Influence of Immunosuppressant Cylosporin A on the proteolytic activities in mammalian cell extracts"

PUBLICATIONS

- [1] **A. Lokapally**, H. Neuhaus, J. Herfurth, and T. Hollemann, "Interplay of TRIM2 E3 ubiquitin ligase and ALIX/ESCRT complex: control of developmental plasticity during early neurogenesis", *Cells* 9(7), 2020.
- [2] **A. Lokapally**, S. Metikala, and T. Hollemann, "Xenopus laevis neuronal cell adhesion molecule (nrcam): plasticity of a CAM in the developing nervous system", *Dev Genes Evol* 227, 2017.
- [3] T. Pfirmann, E. Handt, S. Ranft, **A. Lokapally**, H. Neuhaus, M. Perron, and T. Hollemann, "Hedgehog dependent E3 ligase Midline1 regulates ubiquitin mediated proteasomal degradation of Pax6 during visual system development", *PNAS* 113(36), 2016.
- [4] **A. Lokapally**, S. Matikala, and T. Hollemann, "Expressional characterization of mRNA (guanine-7)-methyl-transferase (rnmt) during early development of Xenopus laevis", *Int J Dev Biol* 60, 2016.
- [5] T. Pfirmann, **A. Lokapally**, C. Andreasson, P. Ljungdahl, and T. Hollemann, "SOMA: A single oligonucleotide mutagenesis cloning approach", *PLoS ONE* 8(6), 2013.

CONFERENCE POSTERS

- [6] **A. Lokapally**, H. Neuhaus, J. Herfurth, and T. Hollemann, “Trim2 E3 ligase regulates neural polarity and apoptosis of progenitor cells in *Xenopus laevis*”, ser. 2nd European Amphibian Conference. Wittenberg, Germany, 2019.
- [7] **A. Lokapally** and T. Hollemann, “Ectopic expression of Trim28 suppresses neural differentiation during early embryogenesis in *Xenopus laevis*”, ser. GfE-SFBD Conference. Nueremberg, Germany, 2015.
- [8] **A. Lokapally**, T. Pfirrmann, and T. Hollemann, “Modulatory roles of Trim E3 ligases during *Xenopus laevis* neurogenesis”, ser. 14th International *Xenopus* Conference. Giens, France, 2012.
- [9] **A. Lokapally** and T. Hollemann, “Expression patterns of TRIM family members during *Xenopus laevis* organogenesis”, ser. GBM, Molecular Life Sciences. Frankfurt, Germany, 2011.

REVIEW EXPERIENCE

- Developmental Biology ISSN:0012-1606 2020–

GRANTS AND AWARDS

- Travel Grant: 2nd European Amphibian Conference, Wittenberg, Germany 2019
- Travel Grant: GfE-SFBD Conference, Nueremberg, Germany 2015
- Travel Grant: 14th International *Xenopus* Conference, Giens, France 2012
- Travel Grant: Molecular Life Sciences Conference, Frankfurt, Germany 2011

SCIENTIFIC MEMBERSHIPS

- Society for Developmental Biology 2014–
- German Society for Biochemistry and Molecular Biology (GBM) 2012–2016
- German Society for Developmental Biology 2012–2016

MENTORING

- Medical Doctoral Thesis: Ms Dana Manteufel, Medical Student 2013-2014
Characterization of Trim23 and Trim36 E3-ligases
- Medical Doctoral Thesis: Ms Steffanie Herrmann, Medical Student 2013-2014
Characterization of Trim7 and Trim21 E3-ligases

EXTRACURRICULAR ACTIVITIES

- MIT Postdoctoral Association: Co-Chair Community Building Jan 2020–Aug 2020
Organised the PDA mentoring program, panel discussions and community building events
- MIT Golf Club: Chair Treasury and Inventory Fall 2020–current
Maintenance of Finances and Fundraising
- Member - Student Association of the Natural Sciences - MLU Halle-Wittenberg 2014–2018
Career-fair organization