

## Curriculum vitae - Adham Abuelola Fathy Abeuola Mohamed

Date of birth, nationality: July 10<sup>th</sup> 1992, Egyptian

B.Pharm. Helwan University, Egypt

M.Sc. Medical Immunoscience and Infection

Ph.D. Immunology, University Hospital Bonn –  
University of Melbourne

Postdoctoral Fellow at DKFZ – University Hospital  
Tübingen

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### Education/Degrees:

- 2024-now Postdoctoral Fellow - Cellular Therapies & Immunity of Cancer Stem Cells, University Hospital Tübingen
- 2019-2024 Joint PhD Student, Bonn & Melbourne Graduate School (Immunosciences, IRTG2168)
- 2017-2019 MSc Medical Immunoscience and Infection, Bonn University "Grade = 1.6"
- 2016-2017 Immunology preliminary M.Sc. Suez Canal University, Egypt "Very Good"
- 2009-2014 Bachelor of Pharmacy and Pharmaceutical Sciences, Helwan University "Excellent Honor"

### Laboratory/work experience

- 07/2012-09/2015 Community pharmacist in several pharmacies.
- 10/2015-09/2016 Medical customer service specialist at El-ezaby Pharmacies, Abbasyia, Egypt.
- 11/2015-06/2016 Quality control specialist at Egyptian National Organization for Research and Biological Control, Viral control unit, responsible for viral vaccine efficacy evaluation
- 09/2016-09/2017 Teaching assistant at Microbiology and Immunology department, Sinai University, Egypt, responsible for practical applications of the theoretical lectures
- 04/2018-09/2019 Research assistant at Prof. Harald Neumann lab, Institute of Reconstructive Neurobiology, responsible for genotyping and mice follow up
- 09/2018-11/2018 M.Sc. Internship at Medical Microbiology, Immunology and Parasitology Institute, Bonn University "DEREG mice and female *L. sigmodontis* fertility project"

- 11/2018-01/2019 M.Sc. Internship in Neuronal Regeneration group, Institute of Reconstructive Neurobiology, Bonn University  
“Immune-Histo-Chemical staining establishment on different mouse tissue”
- 01/2019-07/2019 M.Sc. Thesis in Neuronal Regeneration group, Institute of Reconstructive Neurobiology, Bonn University  
“Aminoglycoside-induced inflammatory degeneration of sensory neurons and hair cell in mouse inner ear”
- 10/2019-09/2023 PhD project, Bonn & Melbourne Research and Graduate School “Nucleic acid sensing in CD8+ T cells and NK cells during viral infections”

### **Laboratory skills/Courses**

- Flow cytometry and cell sorting
- PCR (conventional and quantitative), Gel electrophoresis
- Tissue cryo-cutting, Immuno-histochemical-staining, confocal microscopy
- Western blotting, ELISA, Luminex, precipitation immune assay,
- Gene cloning
- CRISPR/Cas9 gene editing
- Mouse handling and in-vivo assays (FELASA)
- Virus propagation, infection and viral release assays
- Basic R and RNA seq courses for beginners

### **Research interests**

All immunology sub-branches including basic immunology (innate and adaptive immunity), Immunotherapies, Immuno-oncology and infectious diseases

### **Papers (Published/submission)**

- Adham Abuelola Mohamed, Sofia Soler, Julia Wegner, Eva Bartok, Sanda Stankovic, Andrew Brooks, Martin Schlee, Influenza A Infection Stimulates RIG-I and Enhances Effector Function of Primary Human NK Cells. ( <https://www.mdpi.com/1422-0067/24/15/12220> )
- Adham Abuelola Mohamed, Sanda Stankovic, Andrew Brooks, Martin Schlee, Enhancing CD8 T Cell Responses: Unraveling the Impact of RIG-I Activation During IAV Infection. (Research article/manuscript is ready and will be submitted soon)

### **Scientific posters and presentations**

- Mohamed Adham, Sanda Stankovic, Andrew Brooks, Martin Schlee, Viral infection and RIG-I stimulation in NK Cells Enhance Their Activation Towards Target Cells. Defence is the Best Attack: Immuno-Oncology Breakthroughs Conference, European Society of Cancer Research, 2023, May 9-11<sup>th</sup>; Barcelona, Spain.
- Mohamed Adham, Sanda Stankovic, Andrew Brooks, Martin Schlee, Influenza A infection and RIG-I stimulation in NK Cells Enhance Their

Activation Towards Target Cells. Abstract selected for a talk at Cluster of Excellence Science days 2022, Nov 22<sup>nd</sup>; Bonn, Germany.

- Mohamed Adham, Sanda Stankovic, Martin Schlee, Andrew Brooks. Nucleic acid sensing in NK and CD8 T cells during Influenza A infection. Oral presentation at: Annual meeting for Clinical Chemistry and Clinical Pharmacology Institute, Jun 15<sup>th</sup> 2022; Monshau, Germany.
- Mohamed Adham, Sanda Stankovic, Martin Schlee, Andrew Brooks. Effect of RIG-I stimulation in NK cells. Oral presentation at: The IRTG2168 meeting for PhD Programs, Jun 25<sup>th</sup> 2022; Potsdam, Germany.
- Mohamed Adham, Sanda Stankovic, Martin Schlee, Andrew Brooks. Nucleic acid receptors in NK cells, Are they important? Oral presentation at: The IRTG2168 meeting for PhD Programs, Jun 25<sup>th</sup> 2022; Potsdam, Germany.
- Mohamed Adham, Sanda Stankovic, Martin Schlee, Andrew Brooks. Effect of RIG-I stimulation in NK cells. Oral presentation at: The IRTG2168 meeting for PhD Programs, Jun 25<sup>th</sup> 2022; Potsdam, Germany.
- Mohamed Adham, Klaus Christine, Neumann Harald. Aminoglycoside-induced inflammatory degeneration of sensory neurons and hair cell in mouse inner ear. Poster presented at: Immunosensation matchmaking symposium 2019. Jun 17; Bonn, Germany.
- Klaus C, Mohamed A, Shahraz A, Kuenzel T, Neumann H. 6'-Sialyllactose acts anti-inflammatory in an aminoglycoside-induced hair cell loss model XIV. Poster presented at: European Meeting on Glial Cells in Health and Disease, Porto, Portugal, July 10-13 2019. Glia 67(S1):E235, T05-061B.
- Mohamed Adham, Klaus Christine, Schink Tamara, Shahraz Anahita, Künzel Thomas, Neumann Harald. Anti-inflammatory effects of a human milk oligosaccharide and its application in a mouse hearing loss model. Poster presented at: Cluster of Excellence Science days 2019. Nov 4-5; Bonn, Germany.

#### Reference:

- Prof. Dr. Andrew Brooks, Head of Microbiology and Immunology department, University of Melbourne, Australia.  
Email: [agbrooks@unimelb.edu.au](mailto:agbrooks@unimelb.edu.au)
- Prof. Dr. Martin Schlee, Institute of Clinical Chemistry and Clinical Pharmacology, University Hospital Bonn, Germany.  
Email: [martin.schlee@uni-bonn.de](mailto:martin.schlee@uni-bonn.de)
- Dr. Sanda Stankovic, Senior Clinical Research scientist, 360biolabs - Honorary Senior Research Fellow at the University of Melbourne.  
Email: [sanda.stankovic@360biolabs.com](mailto:sanda.stankovic@360biolabs.com)

- Prof. Dr. Harald Neumann, Institute of Reconstructive Neurobiology,  
University Hospital Bonn.  
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