

Curriculum Vitae

Date Prepared: 01/06/2022
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Place of Birth: Damascus - Syria

Education:

2001-2006	Bsc.	Pharmaceutical Sciences	Amman University, Amman, Jordan
2008-2011	Msc.	Infectious Diseases and Immunology	Philipps University Marburg, Germany
2011-2016	PhD	Immunology and Epigenetics (Dr. Harald Renz)	Philipps University Marburg, Germany

Training:

2016-2017	Postdoctoral Fellow	Asthma and Epigenetics/Role of Environment in epigenetic modification in Asthma (PI: Dr. Harald Renz)	Philipps University, Marburg, Germany
2017-2019	Research Fellow	Asthma and Immunology. The role of Notch signaling in airway inflammation (PI: Dr. Talal Chatila)	Boston Children's Hospital, Boston, MA, USA
2019-2020	Instructor in Pediatrics (Junior Research Group Leader)	Role of Microbial and Viral sensing in the lung via Tolerance mechanisms (PI: Dr. Talal Chatila)	Harvard Medical School, Boston Children's Hospital, Boston, MA, USA
2020-2021	Junior Research Group Leader	Psychoneuroimmunology (PI: Dr. Eva Peters)	Justus-Liebig-University Giessen, Giessen, Germany
2021-2022	Medical Affairs Manager (Scientific Advisor)	Leading the scientific efforts for IL-5R therapy in Asthma and Allergic diseases	AstraZeneca Germany

2022 -	Assistant Professor	Working on the role of T-cells in inflammatory lung diseases focusing on Asthma, Fibrosis, COPD, Bacterial and Viral ARDS.	Institute for Medical Microbiology and Virology, Technical University Dresden
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Professional Societies:

2011-	European Academy of Allergy and Clinical Immunology	Junior Member
2018-	American Academy of Allergy, Asthma and Clinical Immunology	Member

Editorial Activities:

- **Ad hoc Reviewer**

Journal of Allergy and Clinical Immunology

Allergy

Pediatric Allergy and Immunology

International Archives of Immunology

Gut Microbes

Environmental Pollutants and Bioavailability

Honors and Prizes:

2001	Full Scholarship	Amman University	Full waiver of tuition fees
2014	Travel Grant	EAACI	Oral Presentation – EAACI meeting 2014
2018-2020	Scholarship	German Research Society (DFG)	
2018	Travel Grant	AAAAI	Oral Presentation – AAAAI meeting 2018
2018	Travel Grant	InFlame network	Oral Presentation – InFlame meeting 2018

Report of Funded and Unfunded Projects

Current

- 2019-2022 Role of Notch4 in airway inflammation, **Industry Grant, Research Investigator**, Identification of Human neutralizing antibody against Notch4 to assess the role of Notch4 in asthma and allergy. (*funded with 500.000 US Dollars*)
- 2022- Role of Extracellular Vesicles in the Pathogenesis of Long COVID19 syndrome: Epigenetic implications for immune related disease (*funded with 70.000 Euros yearly through Professorship Negotiations*)

Report of Local Teaching and Training

Teaching of Students in Courses:

2014-2017	Immunology/Biology and Biomedical sciences students	Medical Faculty, Philipps University Marburg, Germany
2021-	MD-PhD on role of Epigenetics in PTSD	Medical Faculty, Justus-Liebig-University Gießen, Germany
2022-	PhD (rer. Nat) on role of EVs in Long COVID19 syndrome	Medical Faculty, TU Dresden, Germany
2022-	Master Thesis – Establishing Lung Organoids as a first line of pathogen-host interaction investigation	Medical Faculty, TU Dresden, Germany
2022-	MD-PhD on Bacterial Epigenetics and their role in antibiotic resistance	Medical Faculty, TU Dresden, Germany

Research Supervisory and Training Responsibilities:

2015-2017	General Laboratory methodology training/PhD students	Philipps University Marburg, Germany
2017-2020	Immunology Trainees and PhD students	Harvard Medical School
2022-	Immunology Trainees and PhD students	Technical University Dresden

Report of Technological and Other Scientific Innovations

2018	Patent (REGULATION OF ALLERGIC INFLAMMATION BY NOTCH 4) PCT/US2019/022493
2018	Therapy for severe asthma with anti-IL-6 receptor monoclonal antibody therapy. PCT/US2019/064458.
2019	Methods for Targeting the WNT-GDF15 axis in Asthma. Provisional: 62/979,602
2020	Notch4 as a possible therapy for COVID19 infection. U.S. Provisional No.: 63/038,186

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings:

- Angerer Alm SFB/TR22 group meeting 2010 Angerer Alm - Austria (**LGG as a protective factor against allergic asthma**)
- Mainzer Allergy workshop 2010 Mainz - Germany (**LGG as a protective factor against allergic asthma**).
- Asian Federation for Clinical Chemistry meeting in Seoul – South Korea 2010
- Angerer Alm SFB/TR22 group meeting 2011 Angerer Alm - Austria (**Staphylococcus sciuri as a protective factor against experimental acute asthma model**)
- Mainzer Allergy workshop 2011 Mainz - Germany (**Staphylococcus sciuri as a protective factor against experimental acute asthma model**).
- International Federation of Clinical Chemistry (IFCC) meeting in Berlin – Germany 2011.
- European Academy for Allergy and Clinical Immunology (EAACI) meeting in Istanbul - Turkey 2011 (**LGG as a protective factor against allergic asthma**) **Second best poster presentation.**
- Angerer Alm SFB/TR22 group meeting 2012 Angerer Alm - Austria (**Chromatin Immunoprecipitation in human CD4 cells – Method Establishment**).
- Arab Med Lab (AFCB) meeting in Marrakesh – Morocco 2012 (**Chromatin Immunoprecipitation in human CD4 cells – Method Establishment**).
- UGMLC/DZL Symposium in Marburg – Germany 2012 (**Chromatin Immunoprecipitation in human CD4 cells – Method Establishment**).
- Angerer Alm SFB/TR22 group meeting 2013 Angerer Alm - Austria (**Establishment and Validation of a ChIP method for human cohort studies**).
- Herbsttagung der Sektion Zellbiologie und der Sektion Infektiologie und Tuberkulose in der Deutschen Gesellschaft für Pneumologie und Beatmungsmedizin e.V. 2013 Marburg – Germany (**Establishment and validation of chromatin immunoprecipitation (ChIP) method for cohort studies**).
- DZL first meeting in Heidelberg – Germany 2014 (**Establishment and validation of chromatin immunoprecipitation (ChIP) method for cohort studies**).
- European Academy for Allergy and Clinical Immunology (EAACI) meeting in Copenhagen – Denmark 2014 (**Folate status as a modifier of epigenetic profile in human neonatal CD4⁺ T cells**) Oral Presentation – *Travel Grant*
- DZL second meeting in Hamburg – Germany 2014 (**Establishment and validation of chromatin immunoprecipitation (ChIP) method for cohort studies**).
- InFlame 4th meeting in Marburg 2015 (**Folate status as a modifier of epigenetic profile in human neonatal CD4⁺ T cells**) Oral Presentation
- European Academy for Allergy and Clinical Immunology (EAACI) meeting in Barcelona – Spain 2015 (Chair in a session)
- InFlame 5th meeting in Maastricht, Netherland 2016 (**Folate status as a modifier of epigenetic profile in human neonatal CD4⁺ T cells**) Oral Presentation
- Syrian Diaspora Business Forum in Eschborn, Germany 2017 (**Presentation of German-Syrian Research Society**) Oral Presentation
- American Association for Asthma, Allergy and Immunology (AAAAI) meeting in Orlando, Florida 2018 (**A Jagged1-Notch4 interaction between Alveolar Macrophages and Allergen-Specific T Cells Mediates Airway Inflammation by Ultrafine Particles**). Oral presentation – *Travel Grant*
- InFlame 7th meeting in Canmore, Canada 2018 (Role of BDNF in hair in Somatic complaints caused by stress) Oral Presentation – *Travel Grant*
- American Association for Asthma, Allergy and Immunology (AAAAI) meeting in San Francisco, California 2019 (**A protective function of STAT6 revealed in a novel experimental model of eczema**). Poster presentation