Nikolai Huwa

(Bio-)Chemist, Scientific co-worker

*1/12/1988, Tschemolgan (Kazakhstan)

Field of Research:

»Biochemical Characterisation of modular Dirigent Proteins«

Academic Stages

07/2018 - present	**Doctoral Studies** – Secondary Metabolism Enzymology-Group of Dr. Thomas Classen, Institute of Bioorganic Chemistry, Heinrich Heine University Düsseldorf at Forschungszentrum Jülich GmbH
10/2015 – 07/2018	**Master of Science** - Department of Chemistry, Philipps-University Marburg
09/2017 – 05/2018	**Master thesis** - Working group of Dr. Sabrina Höbenreich, Chemical Biology, Department of Chemistry, Philipps-University Marburg »*Engineering of Halogenase Wi-WelO15 for Functionalization of Rose Ketones*«
09/2011 – 07/2015	**Bachelor of Science** - Biological Chemistry, Department of Biotechnology, University of Applied Sciences Mannheim
12/2014 – 04/2015	**Bachelor thesis** - Working group of Prof. Dr. Prange, Department Marine Bioanalytical Chemistry, Helmholtz-Zentrum Geesthacht »*Methodical optimisation of elemental fingerprint analysis and characterization of German Wadden area sediment samples*«
10/2013 – 02/2014	**Research internship** – Working group of Prof. Dr. Garry Corthals, Department of Proteomics, Turku Centre for Biotechnology (Finland) »*Identification of potential bladder cancer biomarkers by LC-MS/MS*«
08/2010 – 09/2011	**Apprenticeship** - Chemical Laboratory Assistant Merck KGaA, Darmstadt
09/2008 – 07/2010	**Professional Education** - Chemical Laboratory Assistant University of Applied Sciences Idstein
09/2005 – 05/2008	**Secondary School** - Abitur

Awards

07/2018	GBM Masterprice at the Philipps-University Marburg
11/2016	Participant of iGEM Team Marburg 2016, Silver medal in iGEM Jamboree; Boston (USA)

08/2010	GDCh-Price at the University of Applied Sciences Idstein

Publications

1. Huwa, N., Weiergräber, O. H., Fejzagić, A.V., Kirsch, C., Schaffrath, U., & Classen, T. Crystal structure of the defence conferring rice protein OsJAC1 reveals a new dirigent-like protein motif with carbohydrate-binding ability. *In preparation* **2021**.
2. Huwa, N., Weiergräber, O. H., Kirsch, C., Schaffrath, U., & Classen, T. Biochemical and Initial Structural Characterization of the Monocot Chimeric Jacalin OsJAC1. *International journal of molecular sciences* **2021**, *22*(11), 5639.
3. Huwa, N., Fejzagić, A.V., Gebauer, J., & Classen, T. Halogenating Enzymes for Active Agent Synthesis: First Steps Are Done and Many Have to Follow. *Molecules* **2019**, *24*, 4008

Conference contribution

1. Flash poster presentation - EFB2021 - European Federation of Biotechnology, 10. -14. May **2021**, virtual conference; Nikolai Huwa, Christian Kirsch, Oliver H. Weiergräber, Ulrich Schaffrath and Thomas Classen, »Interaction study of a rice protein conferring pathogen defense – OsJAC1«.

Posters

1. EFB2021 - European Federation of Biotechnology, 10. -14. May **2021**, virtual conference; Nikolai Huwa, Christian Kirsch, Oliver H. Weiergräber, Ulrich Schaffrath and Thomas Classen, »Interaction study of a rice protein conferring pathogen defense – OsJAC1«.
2. 14th International Symposium on Biocatalysis and Biotransformations (BioTrans 2019), 07.–11. July **2019**, Groningen, Netherlands; Nikolai Huwa, Thomas Classen, Christian Kirsch, Ulrich Schaffrath, »Biochemical Characterization of a Monocot Chimeric Lectin - OsJAC1«.

Teaching & voluntary scientific engagement

Course for graduate students »Optimization of Protein Production« (Teaching Fellow) **2019-2021**

Coordination and supervision of an internship. January **2020**

Supervision of a RISE exchange student. May - August **2019**

Coordination and supervision of an internship. April - May **2019**

Supervision of a bachelor practical course. November - December **2018**