ABU SAMMOUR, DENIS, M.SC.

GENERAL INFORMATION

Doctoral Candidate / Team Leader
Hochschule Mannheim
Center for Mass Spectrometry and Optical Spectroscopy
Paul-Wittsack-Str. 10, 68163 Mannheim, Germany

C04

ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
2005-2010	B.Sc. in Biomedical Engineering from Jordan University of Science and Technology in Jordan (83.1%).

SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
2015-Present	Doctoral Candidate (Dr. sc. hum.) at Heidelberg University, Medical Faculty Mannheim; Supervisor: Prof. Dr. Carsten Hopf.
2013-2015	M.Sc. in Biomedical Engineering from Heidelberg University, Medical Faculty Mannheim; Supervisors: Prof. Dr. Luther Schad and Prof. Dr. Ing. Frank Zöllner; accumulated grade: 1.6.

PROFESSIONAL EXPERIENCE

Year(s)	Experience
Since 2018	Team Leader-Bioinformatics, Centre for Mass Spectrometry and Optical Spectroscopy, Mannheim.
2015-2018	Research Assistant, Hochschule Mannheim, Mannheim.
2015	Project Assistant, Fraunhofer PAMB, Mannheim.
2011-2013	Picture Archiving and Communication Systems Application Specialist, Jordan.
2010-2011	Medical Field Service Engineer, Jordan.

SELECTED PUBLICATIONS

1. Abu Sammour D, Cairns JL, Boskamp T, Marsching C, Kessler T, Ramallo Guevara C, Panitz V, Sadik A, Cordes J, Schmidt S, Mohammed SA, Rittel MF, Friedrich M, Platten M, Wolf I, von Deimling A, Opitz CA, Wick W, Hopf C: Spatial probabilistic mapping of metabolite ensembles in mass spectrometry imaging. **Nature communications** 14: 1823, 2023
2. Friedrich M, Sankowski R, Bunse L, Kilian M, Green E, Ramallo Guevara C, Pusch S, Poschet G, Sanghvi K, Hahn M, Bunse T, Münch P, Gegner HM, Sonner JK, von Landenberg A, Cichon F, Aslan K, Trobisch T, Schirmer L, Abu Sammour D, Kessler T, Ratliff M, Schrimpf D, Sahm F, Hopf C, Heiland DH, Schnell O, Beck J, Böttcher C, Fernandez-Zapata C, Priller J, Heiland S, Gutcher I, Quintana FJ, von Deimling A, Wick W, Prinz M, Platten M: Tryptophan metabolism drives dynamic immunosuppressive myeloid states in IDH-mutant gliomas. **Nature cancer** 2: 723–740, 2021
3. Abu Sammour D*, Marsching C*, Geisel A, Erich K, Schulz S, Ramallo Guevara C, Rabe JH, Marx A, Findeisen P, Hohenberger P, Hopf C: Quantitative Mass Spectrometry Imaging Reveals Mutation Status-independent Lack of Imatinib in Liver Metastases of Gastrointestinal Stromal Tumors. **Scientific reports** 9: 10698, 2019 *Equal contribution

4. Erich K, Reinle K, Müller T, Munteanu B, Abu Sammour D, Hinsenkamp I, Gutting T, Burgermeister E, Findeisen P, Ebert MP, Krijgsveld J, Hopf C: Spatial Distribution of Endogenous Tissue Protease Activity in Gastric Carcinoma Mapped by MALDI Mass Spectrometry Imaging. **Molecular & cellular proteomics: MCP** 18: 151–161, 2019
5. Weigt D, Abu Sammour D, Ulrich T, Munteanu B, Hopf C: Automated analysis of lipid drug-response markers by combined fast and high-resolution whole cell MALDI mass spectrometry biotyping. **Scientific reports** 8: 11260, 2018
6. Rabe JH, Abu Sammour D, Schulz S, Munteanu B, Ott M, Ochs K, Hohenberger P, Marx A, Platten M, Opitz CA, Ory DS, Hopf C: Fourier Transform Infrared Microscopy Enables Guidance of Automated Mass Spectrometry Imaging to Predefined Tissue Morphologies. **Scientific reports** 8: 313, 2018
7. Erich K*, Abu Sammour D*, Marx A, Hopf C: Scores for standardization of ontissue digestion of formalin-fixed paraffin-embedded tissue in MALDI-MS imaging. **Biochimica et biophysica acta**. **Proteins and proteomics** 1865: 907–915, 2017 *Equal contribution
8. Fülöp A, Abu Sammour D, Erich K, von Gerichten J, van Hoogevest P, Sandhoff R, Hopf C: Molecular imaging of brain localization of liposomes in mice using MALDI mass spectrometry. **Scientific reports** 6: 33791, 2016