

MD ABDUS SATTAR

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WORK EXPERIENCE

MARCH 2022 - TODAY

PHD RESEARCHER | UNIVERSITY HOSPITAL RWTH AACHEN

Project: Osteogenic potential of adipose stem cells in periodontal tissue engineering.
Isolation of primary adipose stem cells from human and mouse adipose tissue, stem cell differentiation, ELISA, RT-qPCR.

MARCH 2021 – SEPTEMBER 2021

RESEARCH ASSISTANT | UNIVERSITY OF LEIPZIG

Project: Molecular control of G-coupled protein receptor signaling.
Molecular cloning of C.elegans arrestin-1 by site-directed mutagenesis, PCR, gel electrophoresis, DNA transfection with Lipofectamine 2000, BRET assay, ligand-receptor interaction by fluorescence microscopy.

MAY 2020 – NOVEMBER 2020 AND FEBRUARY 2022 – MAY 2022

RESEARCH ASSISTANT | HELMHOLTZ CENTER POTSDAM

Development of web content, creation of a literature database, database management.

MARCH 2019 – MARCH 2021

STUDENT ASSISTANT | CHARITÉ - UNIVERSITY MEDICINE BERLIN

Conception and implementation of a process for the central recording of laboratory animal numbers, data analysis, evaluation and presentation of data on animal experiments, scientific research and literature research.

EDUCATIONAL BACKGROUND

AUG 2020

MASTER OF SCIENCE IN TOXICOLOGY | UNIVERSITY OF POTSDAM, GERMANY

JANUARY 2014

BACHELOR OF PHARMACY | DHAKA INTERNATIONAL UNIVERSITY, BANGLADESH

INTERNSHIP/RESEARCH PROJECTS

JUN 2019 – JAN 2020

MASTER'S THESIS | UNIVERSITY OF POTSDAM

Project: Association between plasma polyphenol measurements and metabolic syndrome and its components: analysis within the EPIC cohort.
Epidemiological study design, statistical analysis in SAS, random forest imputation in R, multivariate logistic regression, restricted cubic splines regression.

JAN 2019 – MAR 2019

INTERNSHIP PROJECT | UNIVERSITY OF POTSDAM

Project: Post-translational protein modification in human diseases.
HepG2 cell culture, immunoprecipitation, western blot, MALDI-ToF MS

OCT 2018 – NOV 2018

INTERNSHIP PROJECT | UNIVERSITY OF POTSDAM

Project: Phytochemical-protein adducts

Cell culture, protein purification, analysis of alliin-protein interaction (MALDI-ToF MS).

JUL 2018 – AUG 2018

INTERNSHIP PROJECT | UNIVERSITY OF POTSDAM

Project: Toxicological Characterization Of T-BOOH

Cell culture, cytotoxicity (CASY, LDH, Resazurin), global DNA methylation (LC-MS/MS), genotoxicity (Alkaline Comet Assay). C.elegans culture, handling and synchronization (bleaching technique).

NOV 2017 – DEC 2017

INTERNSHIP IN THE LABORATORY | UNIVERSITY OF POTSDAM

- Mass spectrometric determination of sulfotransferase activity in HepG2 cells
- Cytosol isolation and preparation of S9 mixture from rat liver and GST induction measurement
- Quantitation of glutathione by an enzymatic recycling assay
- Induction of CYP3A4 in HepG2 cells by Western blotting
- Genotyping of N-acetyltransferase 2

DEC 2017 – JAN 2018

LABORATORY ANIMAL SCIENCE/FELASA B-TRAINING | UNIVERSITY OF POTSDAM

The theoretical part (2 credits, 18 hours) with the exam and the practical part (37 hours) on laboratory animal science. Certified with **FELASA B**.

JUN 2014 – DEC 2014

IN-PLANT TRAINING | BIOPHARMA LIMITED, DHAKA, BANGLADESH

LABORATORY SKILLS

- Primary Cell Isolation and Culture
- Metabolic activity / toxicological tests
- differentiation of stem cells
- Molecular Cloning / Mutagenesis
- PCR and gel electrophoresis
- RNA isolation and RT-qPCR
- BRET/FRET Assay
- ELISA, Western Blot and MALDI-ToF
- Light and fluorescence microscopy
- Data analysis on Excel, GraphPad Prism, SPSS, R and SAS.

LINGUISTIC PROFICIENCY

English (Fluent / C1)

German (very good / B2)

WORKSHOPS/EVENT/WEBINARS

06/05/2023 – 06/07/2023 | CAMARADES Berlin Preclinical Systematic Review & Meta-Analysis

Workshop - Introduction to Systematic Review and Meta-analysis

09/13/2022 – 09/16/2022 | Munsterland, Munster

Scientific Event – The 10th GSCN Conference

07.12.2021 | On-line

Webinar - The principles of the 3Rs: Lessons Learned from History

12/03/2019 – 03/04/2019 | German Institute for Human Nutrition (DIfE), Bergholz-Rehbrücke, Potsdam

Workshop – Then and Now in nutritional assessment: experiences across Europe

17.12.2019 | Charité - University Medicine Berlin

Scientific Event – One year Charité 3R: Results and perspectives

MEMBERSHIP/OTHERS

- Member of the German Stem Cell Network (GSCN)
- Former member of the Buddy Program at the University of Potsdam
- President of the Bangladeshi Students Alumni Association in Potsdam.
- Website creation on WordPress and Typo3
- First aid course
- Living in Germany - integration course on the German legal, social and political system.
- Driving license class B

PUBLICATIONS (SUBMITTED)

Md Abdus Sattar , LL, Gerrit Freund, Vincent GJ Guillaume , Tim Ruhl, Justus P. Beier and Rebekka Götzl.

Association between donor age and osteogenic potential of adipose - derived stem cells in bone tissue engineering: an updated review . J. Pers. Med. 2023

Md Abdus Sattar , Wolfgang Mende, LL, Gerrit Freund, Vincent GJ Guillaume , Tim Ruhl, Justus P. Beier and Rebekka Götzl. *The osteogenic potential of adipose - derived stem cells isolated from the subcutaneous fat of female donors remains unaffected by age. J. Pers. Med. 2023*