CURRICULUM VITAE

Clemens Falker-Gieske

Burckhardtweg 2, 37077 Göttingen clemens.falker-gieske@uni-goettingen.de | +49 551 39 23087 Born February 16th 1984 in Marburg, Germany

QUALIFICATIONS

- Over 10 years of relevant experience in molecular biology and cell biology including gene editing techniques and cellular models
- Over 5 years of intense research activities in the fields of computational biology, applied bioinformatics, and quantitative genetics with a major focus on animal health and diseases
- Over 5 years of teaching experience in Master's and Ph.D. programs

EDUCATION

11/2011 – 2/2015	Dr. rer. nat. in "Biology" at the University of Hamburg
04/2009 - 10/2010	Master of Science in "Molecular Life Sciences" at Humboldt University Berlin
10/2008 - 04/2009	Master of Science in "Molecular and Cellular Biology" at Philipps University Marburg
10/2005 - 10/2008	Bachelor of Science in "Biology" at the University of Hamburg

EXPERIENCE

Postdoctoral researcher 5/2017 – present

Division Functional Breeding, Department of Animal Sciences, Georg-August-University Göttingen

- Established cell culture and molecular biology laboratories with a major focus on cellular disease models
- Developed pipelines and custom workflows for the analysis of high-throughput genomic and transcriptomic sequencing data

Guest scientist 3/2016 – 9/2016

Next Generation Sequencing Core Facility, University Medical Center Hamburg-Eppendorf

Acquired basic skills in applied bioinformatics and the analysis of second-generation sequencing data

Doctoral researcher 11/2011 – 4/2015

Institute of Neuropathology, University Medical Center Hamburg-Eppendorf

- Established gene editing for gene knockout in neuronal cell lines using TAL Effector Nucleases
- Applied and established numerous biochemical techniques for the analysis and characterization of amyloid proteins

Guest scientist 10/2013 – 12/2013

Consiglio Nazionale delle Ricerche (CNR), Institute of Neuroscience, Milan, Italy

Acquisition of molecular techniques to measure cell toxicity in neurons

Research assistant and master's student

10/2009 - 10/2010

Institute of Molecular Parasitology, Humboldt University Berlin

 Developed and established a gene editing approach in the obligate intracellular parasite *Toxoplasma* gondii by designing a dominant negative isoform of the DNA repair protein Ku80

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SKILLS

Laboratory: Gene editing, cellular models, molecular cloning, nucleic acid analysis, protein analysis, cell toxicity analysis

Optical methods: Confocal microscopy, live cell imaging, nanoparticle tracking analysis, dynamic light scattering, fluorescence activated cell sorting (FACS)

Programming languages: Python, Linux Bash, R, high-performance computing with SLURM

Bioinformatics: Genomics, transcriptomics, genotype imputation, GWAS, eQTL analysis, metagenomics

ACADEMIC SELF-ADMINISTRATION

Member of the appointment committee for the professorship	05/2022 – 06/2023
"Economics of Sustainable Agri-Food Systems"	
Member of the executive board, Department of Animal Sciences	04/2022 - present
Member of the board for selection of candidates for the	01/2022 - present
master's program "Integrated Plant and Animal Breeding (iPAB)"	
Member of the appointment committee for the professorship	01/2022 - 07/2022
"Animal Breeding and Genetics"	

OFFICES

Substitute project leader according to § 15 GenTSV	08/2018 – present
Substitute project leader according to §2 TierSeuchErV	09/2020 - present

COURSES AND CERTIFICATES

Back to the basics (A/B) - Teaching in Higher Education, Georg-August University School of Science, 2023

Programming with CUDA, Gesellschaft für wissenschaftliche Datenverarbeitungen mbH Göttingen, 2022

ABG01x: Genetic Models for Animal Breeding, edx course, Wageningen University & Research, 2021

Statistics in R for participants with prior knowledge – from analysis to report, Gesellschaft für wissenschaftliche Datenverarbeitungen mbH Göttingen, 2017

Parallel programming with MPI, Gesellschaft für wissenschaftliche Datenverarbeitungen mbH Göttingen, 2017 Introduction to R and RNA-Seq Analysis, Statistical Bioinformatics, University Medical Center Göttingen, 2017 RNA-Seq Data Analysis using Galaxy, Statistical Bioinformatics, University Medical Center Göttingen, 2017

LANGUAGES

German: native English: fluent

Spanish: conversational