

KHADEEJA SIDDIQUE

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EDUCATION

PhD Oct 2017-present

University: Norwegian University of Life Sciences (NMBU), Department of Basic Sciences and Aquatic Medicine, Section of Biochemistry and Physiology.

Title: Bioinformatics.

Thesis: Characterization of Pituitary cell types based on Single Cell Transcriptomics

Advisors: Prof. Finn-Arne Weltzien, Christiaan Henkel and Eirill Ager-Wick

MS 2014-16

University: COMSATS Institute of Information Technology (CIIT), Islamabad, Pakistan.

Title: Bioinformatics.

Thesis: Designing an Improved Algorithm for Inferring Gene Network Directionality using Next Generation Sequencing (NGS) data.

cGPA: 3.87/4

Advisor: Dr. Wasim Haider

BS 2009-13

University: COMSATS Institute of Information Technology (CIIT), Islamabad, Pakistan.

Title: Bioinformatics.

Thesis: Association of Paraoxonase 1 (PON1) Polymorphisms with Human Diseases and its Interaction with Different Substrates.

cGPA: 3.47/4

Advisors: Dr. Habib Bukhari, Dr. M. Qaiser Fatmi

PUBLICATION

- Paraoxonase 1 (PON1) and its Interaction with Different Substrates: A Multitasking Protein (In review: Pakistan Journal of Pharmaceutical Sciences (MS No.3911))
- Poster presentation: IMPRESS 2018 Conference.

WORKSHOPS AND CONFERENCES

IMPRESS 2018 Conference (June 17th-19th, 2018): Sustaining iconic diadromous: The potential and pitfalls of cultivation.

- Held in Arendal, Norway.

Nanopore Day Oslo (March 19th, 2018)

- Held in NMBU, Oslo Norway.

Advances in Bioinformatics in Post Genomics Era (Nov 6, 2014)

- Quaid-i-Azam (QAU) Islamabad.

International Conference on Innovative and Public Health Research. May 2014

- Conference held in GCU Lahore.

Workshop “Active Citizen Learning Program”

- British council collaboration with Youth for Peace (YFP) & CHANAN.

Pak China Business Forum 2014

- Held in Pak China Friendship Center, Islamabad
- Covering new challenges in Biological Research e.g. Nano biotechnology.

SKILLS & EXPERTISE

Programming: Python, R, Shell scripting, JAVA.

Applications: NGS Data Analysis (FASTQC, CutAdapt, Bowtie, TopHat, Cufflinks, HTSEQ, DESEQ, IGV, Genome Browsers, Samtools, Bamtools, FastX tools, Gene Ontology, Functional Annotation and pathway analysis (Ingenuity Pathway Analysis, DAVID, FIDEA), Genomatix, Gene Expression, Genomics, Transcriptomics.

Platforms: UNIX, Linux, Windows, Mac, SSH, Putty.

ACHIEVEMENTS AND EXTRA CURRICULAR

Educational: GPA 4.00/4.00 in Final Year Project (BS Bioinformatics January 2013).

Extra-Curricular: Event Management experience, Experience of hosting and comparing in various events.

Award: National Social Action Project Award 2013 British Council.

REFERENCES
