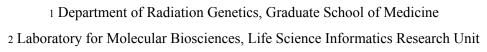
Curriculum Vitae



Ahsan Habib Polash

Doctoral Student, Kyoto University



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(DOB: 1987-Nov-14, Age 32; Nationality: Bangladesh)



Principal Research Areas:

- Cheminformatics, Computational chemical biology, Predictive toxicology
- Bioinformatics, Data processing i.e ChIP-seq data analysis, Data visualization, Immunoinformatics
- Traceability and interpretability in machine learning

Educational and Career History (most recent first):

- 2017 present: Doctoral Student, Graduate School of Medicine, Kyoto University. Expected completion: March 2020
- 2016 2017: Research Student, Department of Radiation Genetics, Graduate School of Medicine, Kyoto University
- 2013 2016: Lecturer, School of Life Sciences, Independent University Bangladesh
- 2012 2013: Research Associate, Molecular Biology Lab, Department of Biochemistry and Molecular Biology, University of Dhaka (BMB-DU).
- 2010 2012: Masters of Science in Biochemistry and Molecular Biology, BMB-DU
- 2006 2010: Bachelor of Science in Biochemistry and Molecular Biology, BMB-DU

Selected Research Publications:

2019 : "Applicability Domain of Active Learning in Chemical Probe Identification: Convergence in Learning from Non-Specific Compounds and Decision Rule Clarification", *Molecules* 2019, 24(15), 2716

2019 : Systematic approaches to build predictive models for rat oral toxicity. CICSJ Bulletin 2019, 37(1), 12

2018 : "Chemogenomic Active Learning's Domain of Applicability on Small, Sparse qHTS Matrices: A Study Using Cytochrome P450 and Nuclear Hormone Receptor Families", *ChemMedChem* 2018, *13*, 511.

*Designated Very Important Paper based on peer review reports.

2018: Equal contribution of book chapter, "A Survey of Web-Based Chemogenomic Data Resources". In: Brown J. (eds) *Computational Chemogenomics. Methods in Molecular Biology*, vol 1825. Humana Press, New York, NY

2015: A diverse community of jute (*Corchorus* spp.) endophytes reveals mutualistic host–microbe interactions. *Annals of Microbiology* (2015) 65: 1615

2013: "In silico prediction of structure and functions for some proteins of male-specific region of the human Y chromosome.", Interdisciplinary Sciences: Computational Life Sciences (2013) 5: 258

Technical Skills:

- I. Data mining, Programming, Shell scripting for bioinformatics tools development, Data visualization
- II. DNA/RNA extraction, Molecular cloning, PCR, Immunostaining, Chromosome aberration assay

Language Skills: Bengali (Native), English (Fluent), Japanese (elementary)

Summary of Graduate Research Career:

- PhD Topics: Artificial intelligence for drug discovery and chemical toxicity
- Masters Thesis Topics: Analysis of salt stress responsive molecular pathways in Jute (Corchorus olitorius var. O-72)

Future Career Goals and Strategies in Research:

- Contribution to academia through teaching and research
 - o Interested largely in advanced computational biology, i.e. next-generation sequencing, machine learning.
 - Contribution to the fields of genetics and drug discovery through application of the above techniques on clinical or preclinical data.
 - Development of approaches to engage and enhance undergraduate and graduate level in computational biology.
 - o Development of practical tools for data visualization aimed at both students and researchers.

Personality, Work Habits, and Leadership Experience:

- Considered as a friendly and open minded person by faculty colleagues and students.
- Belief that a positive mindset can provide significant boost to group performance.
- Capable of making tailored presentation on topics depending on the audience.
- Highly flexible in adapting to the personality of the person or colleague I am exchanging with.
- Able to maintain a dynamic yet well-organized working environment.
- Experience in leading and motivating groups of researchers or community members.
- As a biologist turned informatician, I recognize the critical importance of documentation in computer code, which leads to usability and improved work efficiency in a group. I stress high levels of self-evident documentation.