

## **Personal Information**

\*Family name, First Name: Islam, Shahinul

\*Date of birth: 20.12.1982

\*Sex: Male

\*Nationality: Norwegian

Researcher unique identifier (s): [orcid.org/0000-0001-6147-1162](https://orcid.org/0000-0001-6147-1162)

URL for personal website: [https://www.researchgate.net/profile/Shahinul\\_Islam](https://www.researchgate.net/profile/Shahinul_Islam)  
<https://www.linkedin.com/in/shahinul-islam-b174ab2a/>

## **\*Education**

2019/11 Doctor of Philosophy (PhD) in Human Influenza Vaccine

The Influenza Centre

Faculty of Medicine and Dentistry/ Dept. of Clinical Science, University of Bergen, Norway

**Title:** *Live Attenuated Influenza Vaccine (LAIV) Immunization in Children and Adults: Lesson for Development of Universal Influenza Vaccine.*

2012/8 Master of Science (M.Sc.) in Medical Biology (Cell Biology track)

Faculty of Medicine and Dentistry/ Dept. of Biomedicine, University of Bergen, Norway

## **\*Current and Previous Positions**

2018- Researcher (The Influenza Centre)

Faculty of Medicine and Dentistry/ Dept. of Clinical Science, University of Bergen, Norway

2012/13 Staff Engineer (Neuroscience Research Group Leading by Prof. Clive Bramham)

Faculty of Medicine and Dentistry/ Dept. of Biomedicine, University of Bergen, Norway

## **\*Research Experience**

2012/13 Staff Engineer (Neuroscience Research Group Supervised by Sjoukje Kuipers)

*BDNF and Neurogenesis in Mood Disorder: ARCing the Gap from Psychopathology to Treatment*

Faculty of Medicine and Dentistry/ Dept. of Biomedicine, University of Bergen, Norway

- **Developed direct bisulfite sequencing PCR for formalin-fixed tissue**

2011/12 Master Thesis (Translational Signaling Research Group Leading by Prof. Marit Bakke)

*Autoimmune Addison's disease and DNA Methylation (Identification of Differentially Methylated Region and Development of Methylation of Specific PCR for Selected Genes)*

Faculty of Medicine and Dentistry/ Dept. of Biomedicine, University of Bergen, Norway

- **Developed methylation specific PCR (MSP) first time in the lab**

2011/11 Project student (Translational Signaling Research Group Leading by Prof. Marit Bakke)

*Arnt Activates the CDKN2B promoter Together with Miz-1 and this Transactivation is inhibited by Myc*

Faculty of Medicine and Dentistry/ Dept. of Biomedicine, University of Bergen, Norway

## **\*Fellowship**

2014 PhD Fellowship

Faculty of Medicine and Dentistry/ Dept. of Clinical Science, University of Bergen, Norway

## **\*Scientific Talk to International Conference**

2016 **Rapid Oral Presentation for 10 minutes:** Option IX for The Control of Influenza in Chicago, Illinois-USA, 24<sup>th</sup>-28<sup>th</sup> August

<https://isirv.org/site/index.php/upcoming-event/9-events/352-options-ix>

## **\*Methodological Expertise**

### **Epigenetic Methodology**

Methylated DNA Immunoprecipitation microarray (**MeDIP-chip**); Methylation specific PCR approach (first time established in the lab) both non-quantitative (**MSP**) and Quantitative (**Methylight MSP**); Bisulphate Sequencing PCR (**BSP**); clone based following **NPCR**; Direct sequencing PCR (first time established in the lab); Methylation sensitive restriction enzymes

analysis (**COBRA**); Methylation-sensitive high resolution melting; Hands-on experience on **NGS (next generation sequencing)** techniques

**Molecular Biology**

Isolation of cells (**Specially CD4+ T cells**) from blood; **DNA isolation** from both blood and tissue; Whole Genome Amplification (**WGA**); Quantitative Real Time PCR (**qPCR**); Cell culture (Cell lines are **NRK, U20S, COS-1, HI5, SF9** and **MDCK**); **PCR: primer construction and cloning**; Blue-white screening; DNA gel electrophoresis; **DNA sequencing**; Restriction enzyme analysis; Transformation by both Heat-shock & electroporation

**Protein biochemistry**

**Protein expression** (transcriptional activity) study by Luciferase assay; Transient transfection (chemically & non-chemically); **Baculovirus expression system and protein purification**

**Imaging**

Staining & **fluorescence microscopy**

**Bioinformatics**

*In silico* analysis using **UCSC, Ensembl & NCBI** genome browser; Multiple sequence alignment; Genome trace archive usage

**Immunology**

Haemagglutination inhibition (**HI**) assay; **ELISA**, Micro-neutralization (**MN**) assay; Virus-neutralization (**VN**) assay; Neuraminidase inhibition (**NI**) assay/**ELLA**; Antibody dependent cellular cytotoxicity (**ADCC**) assay; PBMC, Serum and Plasma separation; **ELISpot** assay

**Flow Cytometry**

**B-Cell staining**; Flow based Antibody dependent cellular cytotoxicity (**ADCC**) assay

**\*Information & Communication**

**Software:** ClustalW, Reverse compliment, Endnote, Journal source provider.

**Statistics:** **GraphPad Prism®** V6f & V7f for Mac, GraphPad Software, USA  
**STATA /IC 14.1** for Mac (StataCorp, USA), R & R studio

**Design:** Microsoft office, Keynote, Adobe Illustrator and Photoshop, web publishing, HTML

**\*Others Course Work**

- **Introduction to Teaching and Learning in Higher Education Health Science (PHDPED900):** University of Bergen, Autumn 2019
- **Immunological Assays and Correlates of Production for Next Generation Influenza Vaccine:** University of Siena, Italy, 31<sup>st</sup> March – 2<sup>nd</sup> April 2019
- **ISIRV School of Respiratory Viruses:** American University of Beirut (AUB), Lebanon, 7<sup>th</sup> – 11<sup>th</sup> May 2018
- **Norwegian Research School; Science Communication:** University of Bergen, Norway, 24<sup>th</sup> - 26<sup>th</sup> January 2018
- **Norwegian Research School; Nature Masterclass (Scientific Writing Course Organized by Nature Publications):** Fredrikstad, Norway, 21<sup>st</sup> - 22<sup>nd</sup> June 2017
- **Basic Course in Medical and Health Related Research (MEDMET1):** University of Bergen, Autumn 2014
- **Good Clinical Practice for PhD Candidates (ICH-GCP):** University of Bergen, Norway
- **Laboratory Animal Science Course (FELESA C) & Practical Training:** University of Bergen, Norway
- **Spesialisering og for spesialisters etterutdanning:** 7<sup>th</sup> – 9<sup>th</sup> March 2012

**\*Publication Track Record:**

**H-index: 2, total number of peer reviewed publications: 3 (21 citation), manuscript accepted: 1**

**List of Peer Reviewed Publications**

1. Islam S, Zhou F, Lartey S, et al. *Functional Immune Response to Influenza H1N1 in Children and Adults after Live Attenuated Influenza Virus Vaccination*. **Scand J Immunol** **2019**;e12801
2. Islam S, Mohn KG, Krammer F, et al. *Influenza A haemagglutinin specific IgG responses in children and adults after seasonal trivalent live attenuated influenza vaccination*. **Vaccine** **2017**;35:5666-5673
3. Bjanesoy TE, Andreassen BK, Bratland E, et al. *Altered DNA methylation profile in Norwegian patients with Autoimmune Addison's Disease*. **Mol Immunol** **2014**;59:208-16

**Manuscript Accepted**

1. Kristin GI Mohn, Fan Zhou, Sarah Lartey, Shahinul Islam, Rebecca Jane Cox, Karl Albert Brokstad. *Early induction of cross-reactive CD8+ T-cells responses in tonsils after LAIV vaccination in children*. **The Journal of Infectious Disease (JID)**

**Manuscript in Preparation**

1. *ARC methylation changes in a rat model of depression*. Islam S, Trentani A, Mrdalj J, Grønli J, Bakke M., Bramham CR, Kuipers SD
2. *Effect of early life and adulthood stress on hippocampal-mediated function and behavior*. Trentani A, Mrdalj J, Islam S, Hansen, L., Grønli J, Milde AM, Bakke M., Bramham CR, Kuipers SD
3. *Serology of Influenza infected patients followed in season, 2015-16 in Norway*. Islam S, Fan Zhou, Sarah Lartey, Kristin GI Mohn, Fredrik Oftung, Florian Krammer, Rebecca Jane Cox, Karl Albert Brokstad

**Posters**

1. Poster at **Immunological Assays and Correlates of Production for Next Generation Influenza Vaccine**, University of Siena, ITALY, 31<sup>st</sup> March – 2<sup>nd</sup> April 2019
2. Poster at **International Conference: 6<sup>th</sup> ESWI Influenza Conference**, Riga, LATVIA, 10<sup>th</sup> - 13<sup>th</sup> September 2017
3. Rapid Poster oral & poster presentation at **International Conference: OPTION IX for The Control of Influenza**, Chicago, Illinois-USA, 24<sup>th</sup>-28<sup>th</sup> August 2016
4. Poster presentation at **International Conference: The 9th Conference on Global Health and Vaccination Research (GLOBVAC)**, Oslo, Norway, 17<sup>th</sup> -18<sup>th</sup> March 2015
5. Poster at National Meeting: **The Jepsen Centre Retreat**, Finse, Norway, 5<sup>th</sup>-6<sup>th</sup> Sep. 2016
6. Poster at National Meeting: **The Jepsen Centre Retreat**, Finse, Norway, 1<sup>st</sup> -2<sup>nd</sup> Sep. 2014
7. Poster at **Joint symposium of Euradrenal and The Norwegian Endocrine Society**, Bergen, Norway, 7<sup>th</sup> -9<sup>th</sup> March 2012

**Doctoral (PhD) thesis**

Islam, Shahinul (2019). *“Live Attenuated Influenza Vaccine (LAIV) Immunization in Children and Adults: Lesson for Development of Universal Influenza Vaccine.”* **Disputation date: 06.11.2019**  
Faculty of Medicine and Dentistry/ Dept. of Clinical Science, University of Bergen, Norway

**Publisher:** Bergen Open Research Archive (BORA), University of Bergen (UiB).  
<https://bora.uib.no/handle/1956/20969>; 2019-11-06

**Master thesis**

Islam, Shahinul (2012). *“ Autoimmune Addison's Disease and DNA Methylation (Identification of Differentially Methylated Regions and Development of Methylation Specific PCR for Selected Genes).”* **Disputation date: 24.08.2012**  
Faculty of Medicine and Dentistry/ Dept. of Biomedicine, University of Bergen, Norway

**Publisher:** Bergen Open Research Archive (BORA), University of Bergen (UiB).  
<https://bora.uib.no/handle/1956/5983>; 2012-07-01