

Abass Alao SAFIRIYU

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Personal Data

Date of Birth:- 5th April, 1987
Nationality:- Nigerian
Permanent address: No 7B Olumadan compound, Odo-ori area, Iwo, Osun State, Nigeria
Present address:- Room 20/21 Haru Ghosh 4no house, IISER-K 7no gate, Mohanpur, WB, India

University Education

Indian Institute of Science Education and Research Kolkata, India (April, 2019 – present)
International PhD student (Institute scholar – MHRD fellowship, Govt. of India)

Kampala International University, Western Campus, Uganda (March 2014 – March 2019)
Assistant lecturer/senior trainee in department of physiology/biomedical research laboratory

University of Ilorin, Ilorin, Nigeria (Oct, 2011 - April 2013)
*M.Sc in **Physiology** of college of health sciences (Weighted average **64.81%** : CGPA **4.03/5.00**)*

University of Ilorin, Ilorin, Nigeria (Sept, 2007 – July 2010)
*B.Sc in **Physiology** of college of health sciences (second class **upper** division)*

Ahmadu Bello University, Zaria, Nigeria (May 2005 - Sept, 2006)
Interim Joint Matriculation Board (IJMB) – Advanced level

Secondary School Education

Iwo School of Science, Iwo, Osun State, Nigeria (Sept, 1998 -June 2004)
West Africa Examination Council Certificate (WAEC) (one sitting: 4 distinctions, 5 credits)

Research interests

Genomic control of β coronavirus neuropathology, Neuro-inflammation in neurological diseases,
Diabetic neuropathy and Drug development through medicinal plants for neurodegenerative diseases

Technical skills

Animal tissue culture techniques (primary & continuous cell lines); Animal handling (rat and mice); Virology techniques (viral infection, amplification, titre, fusion assays); Immunohistochemistry and Immunofluorescence techniques (cultured cell, paraffinized and cryo sections); Molecular biology techniques (DNA & RNA extraction, PCR, Cloning, blotting); Microscopy (light, epifluorescent, apotome and confocal); Flow cytometry; Plant extraction and compounds isolation, Bioinformatics tools (molecular docking and Molecular Dynamics simulation), Neurobehaviour assessment in laboratory animal.

Achievements (*workshops, meets and symposia attended*) (April, 2019 – present)

Neuron-glia in Health and Disease, XXXIX Annual Meeting of Indian Academy of Neurosciences, (E-Conference) 2021 jointly organized by Indian Institute of Science Education and Research Kolkata, CSIR-Indian Institute of Chemical Biology Kolkata and School of Sciences Netaji Subhas Open University Kolkata, India, **16th – 19th December, 2021**

Neuron-glia Interaction: Recent Concepts and Advances, XXXIX Annual Meeting of Indian Academy of Neurosciences, Pre-Conference Symposium (Virtual) 2021 jointly organized by Indian Institute of Science Education and Research Kolkata, CSIR-Indian Institute of Chemical Biology Kolkata and School of Sciences Netaji Subhas Open University Kolkata, India, **15th December, 2021**

Pharma & Biopharma: Molecule to Medicine-How it works in Industry (Online workshop) jointly organized by Department of Biological Sciences, Indian Institute of Science Education and Research Kolkata and Mr. Bedadyuti Chakraborty, lead –technical training, **Dr. Reddy's, Hyderabad, 30th May – 27th June, 2021.**

Bilateral Indo-US Webinar on COVID biology jointly organized by Indian Institute of Science Education and Research Kolkata, in collaboration with IISc Bangalore, India, University of Pennsylvania, and the University of Colorado, School of Medicine, USA, **16th – 19th August, 2020**

Inter IISERs Sport Meet (IISM) 2019 held at Indian Institute of Science Education and Research Pune, Mahasthra, India, **December 2019.** Team: Football club of IISER Kolkata.

New Insights into the Inflammation, Immunity and Pathobiology of Diseases, INDO-US Symposium 2019 held at Sinclairs Bayview, Port Blair, Andaman and Nicobar Islands, India, **December 2019,** organised by Department of Biological Sciences, Indian Institute of Science Education and Research Kolkata and IUSSTF India.

Laboratory Safety Training held at department of biological sciences Indian Institute of Science Education and Research Kolkata, India. **June 2019.** Organised by committee of laboratory safety, (General biology laboratory safety, guidelines for radioactive and Laser safety)

Publications (April, 2019 – present)

Original articles

Abass Alao Safiriyu, Manmeet Singh, Debnath Pal and Jayasri Das Sarma (2021) Two consecutive prolines in the fusion peptide of Murine- β -Coronavirus spike protein predominantly determine the neuroglial tropism, fusogenicity and neuropathogenesis (manuscript under preparation)

Lucky Sarkar, Lauren Oko, Soham Gupta, Andrew Bubak, Bishnus Das, Parna Gupta, **Abass Alao Safiriyu,** Chirag Singhal, Ujjwal Neogi, David Bloom, Arup Banerjee, Ravi Mahalingam, Randall Cohrs, Micheal Koval, Kenneth S. Shindler, Debnath Pal and Jayasri Das Sarma (2021) Azadirachta indica A. Juss bark extract and its Nimbin isomers restrict β -coronaviral infection and replication. *Virology* (accepted)

Lucky Sarkar, Ravi Kiran Putchala, **Abass Alao Safiriyu** and Jayasri Das Sarma (2020) Azadirachta indica A. Juss ameliorates Mouse Hepatitis virus-induced neuroinflammatory demyelination by modulating cell-to-cell fusion in an experimental animal model of Multiple Sclerosis. *Frontiers in Cellular Neurosciences*, <https://doi.org/10.3389/fncel.2020.00116>

Conferences proceedings

Abass Alao Safiriyu*, Manmeet Singh, Debnath Pal and Jayasri Das Sarma (2021) Two consecutive prolines in the fusion peptide of Murine- β -Coronavirus spike protein predominantly determine the neuroglial tropism and neuropathogenesis. *XXXIX Annual Meeting of Indian Academy of Neurosciences, (E-Conference) 2021 (Oral presentation under Tulsabai Somani Education Trust Award category)*

Lucky Sarkar*, **Abass Alao Safiriyu** and Jayasri Das Sarma (2019) Neem bark extract (NBE) modulates enveloped virus-induced cell-to-cell fusion and consecutive neuropathogenesis. *2nd INDO-US symposium* held at Sinclairs Bayview, Port Blair, Andaman and Nicobar Islands, India, December. (*Poster presentation*)