



ABU JUNAID SIDDIQUI

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PROFILE

- Currently pursuing a Ph.D. in Biotechnology since 2024 at the Department of Bioengineering, Integral University, Lucknow.
- Completed M. Tech in Biotechnology from the Department of Bioengineering, Rama University 2022, Kanpur
- Graduated with a B. Tech in Biotechnology from the Department of Bioengineering in Integral University in 2018, Lucknow.

RESEARCH INTEREST:

My Interest in Research & Development Molecular Biology and Cell Biology and Genetics.

PROFESSIONAL MEMBERSHIP:

INDIAN SOCIETY OF PERSONALIZED MEDICINE (Life Member)

(Registration No. LUC/05821/2020-2021, Under the Societies Registration Act-1860)

Registered Office: Department of Personalized and Molecular Medicine, Era University,

Lucknow – 226003 (India).

WORK EXPERIENCE

Lab Instructor

Department of Bioengineering, Faculty of Engineering & Information Technology, Integral University, Lucknow. \[2-Dec-2024 – Present]

Research Assistant

Laboratory for Stem Cell & Restorative Neurology, Era's Lucknow Medical College and Hospital, Lucknow. \[20-Nov-2021 – 25-Nov-2024]

TECHNICAL AND LAB SKILLS

Cell Biology: Maintenance of cell cultures, cell culture assays.

Molecular Biology: DNA, RNA, and protein isolation from cells, tissues, and eggs; PCR; Electrophoresis; Western Blotting; ELISA.

Cell Lines Handled: Human dental pulp stem cells, Mesenchymal stem cells, N2a, SH-SY5Y, HepG2, C6, BV2. Microscopy: Fluorescent microscopy.

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

1. **Junaid A.**, Kumar A. *Apoptosis Induced Anticancer Potential of Aspirin on A549 Carcinoma Cell. International Journal of Health Sciences. doi.org/10.53730/ijhsS1.7248 (2022).
2. Prakash R., Fauzia E., **Siddiqui A.J.**, et al. *Oxidative Stress-Induced Autophagy Compromises Stem Cell Viability*. Stem Cells. doi:10.1093/stmcls/sxac018 (2022, IF=6.27).
3. Kumari N., Yadav S.K., Prakash R., **Siddiqui A.J.**, et al. *Generation of Hook Ischemia-Reperfusion Model Using a Three-Day Developing Chick Embryo*. J Vis Exp. doi:10.3791/63288 (2022, IF=1.4).
4. Prakash R., Fauzia E., **Siddiqui A.J.**, et al. *Oxidative Stress Enhances Autophagy-Mediated Death of Stem Cells through Erk1/2 Signaling Pathway – Implications for Neurotransplantations*. Stem Cell Rev Rep. doi:10.1007/s12015-021-10212-z (2021, IF=6.69).

BOOK CHAPTERS

1. **Siddiqui A.J.**, Prakash R., Fatima A., Khan A.Q., Raza S.S.* *Cell-Mediated Neurorestorative Mechanisms Underpinning Beneficial Effects in Ischemic Stroke*. In: Raza

S.S. (Ed.) *Regenerative Therapies in Ischemic Stroke Recovery*. Springer, USA (2021). ISBN: 978-981-168-561-3.

2. Prakash R., Yadav S.K., **Siddiqui A.J.**, Kumari N., Raza S.S.* *‘‘Activated’’ Mesenchymal Stem Cells for Stroke Recovery*. In: Mitchell Khan (Ed.) *Human Mesenchymal Stem Cells*. Nova Science (2021). ISBN: 978-1-53619-155-4.

PAPER PUBLISHED IN NATIONAL CONFERENCES

1. Human dental pulp stem cell fate determination in an ischemic-reperfusion microenvironment*. ECAN-2021, Amity University, Lucknow (2021).

2. Establishment of Alzheimer’s Disease in Wistar Rat and Its Correlation with NLRP3-Mediated Inflammation Pathway*. ECAN-2021, Amity University, Lucknow (2021).

PROJECTS & RESEARCH TRAINING

B.Tech Final Year Project:Role of ATG5 on Programmed Cell Death Pathways Mediated by Metformin in Lung Cancer*, Department of Bioengineering, Integral University.

Molecular Biology Training:Qualitative and Quantitative Analysis of Genomic DNA from Human Blood and Capsicum annum*, Biotech Park, Lucknow (2 months).

STUDENTS SUPERVISION

Guided students of B.Tech, M.Tech, B.Sc and M.Sc students with their dissertations and internships.

EXTRA-CURRICULAR ACTIVITIES

Volunteer, EXCEL-IN 2016 (Technical Problem Solving Event), Integral University.

Volunteer, 7th Convocation Ceremony, Integral University Alumni Association (2015).

COMPUTER SKILLS

Windows, MS Office, ImageJ, Adobe Photoshop, SPSS, GraphPad Prism.