**CURRICULUM VITAE**

Aadil Manzoor Baba, Ph.D. (Submitted)  
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**OBJECTIVE**

To achieve excellence in scientific research and academics by utilizing my skills and expertise, while continuing to learn and contribute towards societal betterment.

**CURRENT POSITION**

Ph.D. Scholar (Biochemistry)  
University of Kashmir, India (2019-2024)  
Thesis Title: *Role of Histone Acetylation in Esophageal Squamous Cell Carcinoma Neo-vascularization*  
Supervisor: Prof. Nazir Ahmad Dar

**EDUCATION**

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| --- | --- | --- | --- |
| Degree | Year | University/Board | Field/Subjects |
| Ph.D. | 2019-2024 | University of Kashmir, Jammu & Kashmir, India | Biochemistry (Cancer Biology) |
| M.Sc. | 2015 | University of Kashmir, Jammu & Kashmir, India | Biochemistry |
| B.Sc. | 2012 | University of Kashmir, Jammu & Kashmir, India | Botany, Chemistry, Zoology |
| Class 12 | 2009 | JKBOSE, India | Physics, Chemistry, Biology, Mathematics, English |
| Class 10 | 2007 | JKBOSE, India | Science, Mathematics, Social Sciences, English |

**RESEARCH EXPERIENCE**

**Ph.D. Research** (2019-2024)  
Topic: Role of Histone Acetylation in Esophageal Squamous Cell Carcinoma Neo-vascularization  
Supervisor: Prof. Nazir Ahmad Dar, Department of Biochemistry, University of Kashmir, India

**M.Sc. dissertation** (2015)

Topic: Antirheumatoid Folklore Medicinal plants in Kashmir

Supervisor: Prof. Akbar Masood, Department of Biochemistry, University of Kashmir, India

**MENTORING EXPERIENCE**

* Supervised multiple M.Sc. students in their dissertation projects
* Conducted practical demonstrations for undergraduate and M.Sc. students

**TEACHING EXPERIENCE**

**Lecturer (Biochemistry)**College Lecturer (on academic arrangement basis), University of Kashmir

Taught undergraduate students from March 2017 to November 2018

**FELLOWSHIPS, HONOURS, AND AWARDS**

* **2019-2022:** Project Junior Research Fellowship (JRF)
* 2017: Qualified CSIR-UGC NET (Council of Scientific & Industrial Research, New Delhi, India)
* 2016: Qualified CSIR-UGC NET (Council of Scientific & Industrial Research, New Delhi, India)
* 2016: Qualified JKSET (Higher Education Department of the J&K government, India)
* Distinctions: Topped state-level entrance test for M.Sc. in Biochemistry at Kashmir University
* State Board Distinction holder in 10th and 12th classes

**RESEARCH AND TECHNICAL SKILLS**

* **Biochemical Techniques**: Isolation, purification, and estimation of DNA, RNA, and proteins; chromatography methods; centrifugation
* **Electrophoretic Techniques**: SDS-PAGE, agarose gel electrophoresis
* **Molecular Biology**: Chromatin immunoprecipitation, PCR, Western blot, ELISA, gene transfection, cloning, cDNA synthesis, plasmid isolation and transformation, preparation and maintenance of bacterial cultures, Restriction enzyme digestion, Cloning techniques
* **In Vitro/In Vivo Models**: Tube formation assays; rat models for neo-vascularization; Cell proliferation assays, apoptosis and cell death assays, cell invasion/metastasis assays
* **Software**: GraphPad Prism, Origin, Mendeley, Microsoft Office Suite

**SCIENTIFIC EXPERTISE AND GRANT WRITING**

* **Manuscript Preparation and Publication**: Expertise in preparing and publishing scientific manuscripts, with several research papers already prepared and under review in high-impact journals
* **Experimental Design and Evaluation:** Proficient in designing and evaluating scientific experiments with a focus on accuracy and reproducibility
* **Grant and Proposal Writing:** Skilled in drafting research grants and proposals for securing funding

**RESEARCH INTERESTS**

* Cancer Biology
* Immunology
* Epigenetics
* Cell and Molecular Biology

**PUBLICATIONS**

1. **Baba, A. M.**, et al. *Polydatin inhibits histone deacetylase 1 and exhibits anti-angiogenic effects in head and neck squamous cell carcinoma*. https://doi.org/10.1007/s12032-024-02490-7
2. **Baba, A. M.**, et al. *Epigenetic regulation of CD36 and ANGPTL1 in esophageal squamous cell carcinoma* (Under Review, Molecular Biology Reports)
3. **Baba, A. M.**, et al. *Role of histone acetylation in the regulation of anti-angiogenic genes in ESCC* (Under Review, Angiogenesis)
4. Reddy, G. L., Dar, M. I., Hudwekar, A. D., Mahajan, P., Nargotra, A., **Baba, A. M.**, ... & Sawant, S. D. (2019). *Design, synthesis, and biological evaluation of pyrazolopyrimidinone-based PDE5 inhibitors for erectile dysfunction*. Bioorganic Chemistry, 89, 103022

**CONFERENCES AND WORKSHOPS**

* + Presented *epigenetic changes lead to promotion of neovascularization in esophageal squamous cell Carcinoma (ESCC)* at the 44th All India Cell Biology Conference held at the University of Kashmir, Srinagar from September 2-3, 2022
  + Presented *Role of Histone deacetyl- transferases in the Vasculature formation in Esophageal Squamous Cell Carcinoma* at International Conference on Recent Advances in Biomedical Sciences and Regenerative Medicine (RABSRM)
  + Presnted *epigenetic changes lead to promotion of neovascularization in esophageal squamous cell Carcinoma (ESCC)* at 16th International Cancer Symposium on Translational Chemoprevention and Brainstorming organized by Jawaharlal Nehru University, New Delhi-110067 from 18-19 November 2022
  + Participated in the 7th Hands-On Workshop on, ‘Handling and care of Laboratory animals’ at School of Life science, JNU, New Delhi India
  + Handling and work experience in Cell derived xenograft in Nude mice

**REFEREES**

* **Prof. Nazir Ahmad Dar**Department of Biochemistry,

University of Kashmir  
E-mail: [nazirramzan@uok.edu.in](mailto:nazirramzan@uok.edu.in)

Phone: +91-9906654747

* **Prof. Rana P. Singh**School of Life Sciences,

JNU, New Delhi  
E-mail: [rana\_singh@mail.jnu.ac.in](mailto:rana_singh@mail.jnu.ac.in)

* **Dr. Mohd Jamal Dar**

Senior Principal Scientist

Pharmacology Division, CSIR – Indian Institute of Integrative Medicine,

Canal Road, Jammu – 180001

Email: [jamal@iiim.res.in](mailto:jamal@iiim.res.in)

**DECLARATION**

I hereby declare that all the information furnished above is true to the best of my knowledge.