

CAREER OBJECTIVES

Dedicated Ph.D. student in non-medical neurology, seeking to advance the field through innovative research. I seek to contribute innovative research to the field, bridging the gap between fundamental neuroscience and practical applications. Eager to collaborate with leaders, I aim to establish myself as a research leader, driving progress through interdisciplinary studies and impactful contributions to neurology.

EDUCATIONAL QUALIFICATION

DEGREE	BOARD/UNIVERSITY	Passing Year
M.Sc.(Biotechnology)	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	2015
B.Sc. (Life Sciences)	University of Delhi, New Delhi	2013
Intermediate	Central Board of Secondary Education	2009
High School	Central Board of Secondary Education	2007

RESEARCH EXPERIENCE

- **Senior Research Fellow**
Army Hospital Research and Referral, Delhi Cantt, Delhi Aug 2020-Mar 2022
AFMRC funded Project: *"Prospective observational study on the prevalence of BCR-ABL like mutations in B lineage ALL in children and young adults"*
Supervisor: Lt Col. Sanjeev Khera, Associate Prof, Dept of Pediatrics, Army Hospital Research and Referral, Delhi.
 - **Junior Research Fellow**
Army Hospital Research and Referral, Delhi Cantt, Delhi July 2019-Aug-2020
AFMRC funded Project: *"microRNA expression profiles in serum and urine as a predictor biomarker of nephrotic syndrome in childhood."*
DBT funded Project: *"Cardiovascular Outcomes of Nephrotic Syndrome in Childhood Study (CVONS)".*
Supervisor: Dr. S.K. Patnaik, Prof & HOD, Dept of Pediatrics, Army Hospital Research and Referral, Delhi.
 - **Facility Manager and Research Assistant**
Sansriti Foundation, Patel Marg, Maurice Nagar, Delhi Sep 2018-July 2019
 - **Industrial Intern (Biology) at**
Vyome Biosciences, Patparganj Industrial Area, New Delhi Oct 2017-April 2018
 - **Industrial Intern (Chemistry) at**
Vyome Biosciences, Patparganj Industrial Area, New Delhi Jan 2017-June 2017
 - **M.Sc. Dissertation Intern at**
Regional Centre for Biotechnology, Faridabad, India Jan 2015-June 2015
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AREA OF RESEARCH INTEREST

- Neurosciences
 - Biomarker Discovery
 - Clinical Research
 - Epidemiology
 - Cell and Molecular Biology
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SKILLS ATTRIBUTES & KNOWLEDGE

Clinical Research: Hands-on experience of Laser Doppler Imaging (LDI), Knowledge of Level-II biosafety lab operations, Safe Handling of common and clinical samples, Project management including database administration and SOP preparation, and Patients recruitment including taking consent.

Molecular Biology: DNA and RNA/miRNA isolation, Polymerase chain reaction (RT-PCR & qPCR), Electrophoresis (Agarose, Native SDS-PAGE), Restriction digestion, and DNA Analysis. Flow Cytometry (Assay for Circulating Endothelial Cells, Endothelial progenitor cells, and Microparticles)

Instrumentations: Microscopes (Stereo, inverted, phase contrast, and Fluorescent), Centrifuges/ Concentrators, Spectrophotometer, Hands-on experience in working with NMR, MALDI, and HPLC with small organic molecules.

Microbiology: Determination of minimum inhibitory concentrations (MIC's), serial dilution methods, resistivity assays, gram's staining, disk diffusion assay, biofilm assay, preparation of antibiotic-agar plates, pure culture isolation and culturing of micro-organisms, media preparation, sterilization and autoclaving.

Computer Skills: Operating Systems: MS Windows; Basic knowledge of MAC and Ubuntu.

Statistical Software: Stata 14, Review Manager 5.3

Business Software: MS Office; Adobe Photoshop, Chem-Bio Draw,
Graph Pad Prism.

Language: Elementary knowledge of Python,

Web design: Elementary knowledge of HTML, Base Kit, Word press.

PUBLICATIONS

1. Khera S, **Kumar A**, Parikh B, et al. Safety and outcome of ultrasound-guided tunneled central venous catheter in children with cancers from low middle-income country: A prospective study. *Pediatr Blood Cancer*. 2023;70(1):e30029. doi:10.1002/pbc.30029 [**IF- 3.84**]
 2. Beriwal A, Chauhan L, **Kumar A**, Dwivedi A. A sib-pair with Al Kaissi syndrome caused by homozygosity for a novel CDK10 splice variant. *Clin Dysmorphol*. 2023;32(1):32. doi:10.1097/MCD.0000000000000439 [IF 0.88]
 3. Nath M, Swarnkar P, Sharma R, **Kumar A**, Misra S, Kumar P. Association of modifiable risk factors with ischaemic stroke subtypes in Asian versus Caucasian populations: A systematic review and meta-analysis. *Eur J Clin Invest*. 2022;52(11):e13849. doi:10.1111/eci.13849 [**IF 4.75**]
 4. **Kumar A**, Sharma R, Misra S, Nath M, Kumar P. Relationship between methylenetetrahydrofolate reductase (MTHFR) gene (A1298C) polymorphism with the risk of stroke: A systematic review and meta-analysis. *Neurol Res*. 2020;42(11):913-922. doi:10.1080/01616412.2020.1798107 [**IF- 2.40**]
 5. Kumar P, Sharma R, Misra S, **Kumar A**, et al. CIMT as a risk factor for stroke subtype: A systematic review. *Eur J Clin Invest*. 2020;50(11):e13348. doi:10.1111/eci.13348 [**IF- 2.84**]
 6. Manabesh N, Shubham M, **Amit K**, Rakhee S, Pradeep K. Endothelial Nitric Oxide Synthase (eNOS) Gene Polymorphisms and Risk of Aneurysmal Subarachnoid Hemorrhage: An Updated Meta-Analysis. *Genetics & Molecular Research*, 2020; 19 (5): gmr16039991 (Published online). [**IF- 0.24**]
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ORAL/POSTER PRESENTATION

- Poster presentation on Association of Circulating Magnesium Level with the Risk of Stroke: A Systematic Review and Meta-Analysis. 10th European Stroke Organisation Conference – ESOC 2024, Basel (Switzerland), May 2024 [Online].
- Oral presentation on “Evaluating D-Dimer as a Promising Biomarker for Stroke Diagnosis and Prognosis - A

- Poster presentation on “Elevated Troponin as a Potential Diagnostic Biomarker for Stroke: A Systematic Review and Meta-Analysis” at XXVI Biennial World Congress of Neurology, Montreal (Canada), October 2023 [Online].
- Poster presentation on “Association of C-reactive Protein Gene Polymorphisms with the Risk of Ischemic Stroke: A Systematic Review and Meta-analysis” at 14th World Stroke Congress, Singapore, Oct 2022 [Online]. -Analysis” at IANCON, 2023.
- Poster presentation on “A Cross sectional Survey to Assess the Knowledge, Attitude and Practices towards Genetic Disorders and Testing among Non-Geneticist Clinicians of Indian Armed Forces”.
- Poster presentation on Biosafety & Bio-security at Department of Biotechnology, Multan Modi College, Meerut University in 2013.
- Attended a national conference on “Ecology and Environment Management: Indian Scenario” Sponsored by Ministry of Earth Sciences, Govt. of India, at Sri Venkateswara college, Delhi University in 2011.

WORKSHOPS

- Contributed as a resource person in the workshop on “**Drosophila and Zebrafish model systems**” organized by departments of Zoology and Biochemistry from 28th – 31st May, 2019 held at Daulat Ram College, University of Delhi.

LANGUAGES

- **Hindi:** native language
- **English:** speak, read, and write with high proficiency. **TOFEL Score: 95** (2016).

REFERENCES

Dr. Dheeraj Khurana

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Department of Neurology,
Postgraduate Institute of Medical Education and
Research,
Chandigarh-160012, India
E-mail: dherajk@yahoo.com
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DECLARATION

I declare that the above information furnished by me is true to my best of knowledge.

(Amit Kumar)

