

Dr Karthikeyan P, MD, PhD

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Public profiles:	Orcid | Google Scholar | Research Gate | YouTube | Goodreads
Research focus	Leukemia Biology, Bioinformatics, Medical Education

Academic Qualifications:

S. No.	Degree	Year	Subject	University/Institution
1.	MBBS	2010	All Subjects	Kanyakumari Government Medical College
2.	MD	2015	Biochemistry	Maulana Azad Medical College
3.	DNB	2016	Biochemistry	National Board of Examinations
4.	PhD	2022	Biochemistry	AIIMS, New Delhi

Work Experience:

S. No.	Positions held	Name of the Institute	Period
1	Junior Resident	Maulana Azad Medical College	2012 - 2015
2	Senior Resident	AIIMS, New Delhi	2015 - 2018
3	Research Associate II	AIIMS, New Delhi	2019 - 2022
4	Assistant Professor	Maulana Azad Medical College	May 2022 – Jan 2023
5	Assistant Professor	AIIMS, New Delhi	2023-June 2026
6	Associate Professor	AIIMS, New Delhi	July 2026-

Professional Recognition/ Award/ Prize/Certificate:

S. No	Name of Award	Awarding Agency	Year
1	FIRST PRIZE in Biochemistry Quiz Competition	Association of Medical Biochemists of India	2014
2	Certificate for BEST JOURNAL CLUB PRESENTATION	Dept. of Biochemistry, AIIMS, Delhi	2017
3	Acknowledgement in Harper illustrated Biochemistry, 31st edition for suggestions and corrections	Victor W. Rodwell (chief editor)	2018
4	Research Associate Fellowship	Indian Council of Medical Research	2019
5	Certificate for Quiz Master	Indian Immunology Society	2020, 2021, 2022

Publications (PubMed indexed only):

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Saluja S, Ganguly S, Singh J, Jain A, Sharma G, Chaudhary S, **Pethusamy K**, Chattopadhyay P, Chopra A, Singh A, Karmakar S, Bakhshi S, Palanichamy JK	Aberrant overexpression of m6A writer and reader genes in pediatric B-Cell Acute Lymphoblastic Leukemia (B-ALL)	Transl Oncol.	56	102403	2025
2.	William JNG, Dhar R, Gundamaraju R, Sahoo OS, **Pethusamy K**, Raj AFPAM, Ramasamy S, Alqahtani MS, Abbas M, Karmakar S	SKping cell cycle regulation: role of ubiquitin ligase SKP2 in hematological malignancies	Front Oncol.	14	1288501	2024
3.	Sarkar S, Srivastava TP, Sahoo OS, Shankar A, Rai A, **Pethusamy K**, Dhar R, Karmakar S	Applications of Quantum Dots in Preventive Oncology	Asian Pac J Cancer Prev.	25(3)	747-756	2024
4.	Seethy AA, **Pethusamy K**, Kushwaha T, Kumar G, Talukdar J, Chaubey R, Sundaram UD, Mahapatra M, Saxena R, Dhar R, Inampudi KK, Karmakar S	Alterations of the expression of TET2 and DNA 5-hmC predict poor prognosis in Myelodysplastic Neoplasms	BMC Cancer	23(1)	1035	2023
5.	Garg P, **Pethusamy K**, Ranjan R	Correlation between Estimated Average Glucose Levels Calculated from HbA1c Values and Random Blood Glucose Levels in a Cohort of Subjects	J Lab Physicians	15(2)	217-223	2023
6.	Purkayastha K, Dhar R, **Pethusamy K**, Srivastava T, Shankar A, Rath GK, Karmakar S.	The issues and challenges with cancer biomarkers	J Cancer Res Ther.	19(Supplement)	S20-S35	2023
7.	**Pethusamy K**, Seethy A, Dhar R, Karmakar A, Chaudhary S, Bakhshi S, P JK, Chopra A et al.	Loss of TET2 with reduced genomic 5-hmC is associated with adverse-risk AML	Leukemia & lymphoma	63(14)	3426-3432	2022
8.	Sahoo OS, **Pethusamy K**, Srivastava TP, Talukdar J et al.	The metabolic addiction of cancer stem cells.	Frontiers in oncology	12:955892.	eCollection	2022
9.	Chattopadhyay I, Dhar R, **Pethusamy K**, Seethy A et al.	Exploring the Role of Gut Microbiome in Colon Cancer	Applied Biochemistry and Biotechnology	193(6)	1780-1799	2021
10.	Seethy A, **Pethusamy K**, Chattopadhyay I, Sah R et al.	TETology: Epigenetic Mastermind in Action	Applied Biochemistry and Biotechnology	193(6)	1701-1726	2021
11.	Dhar R, Seethy A, Singh S, **Pethusamy K**, Srivastava T et al.	Cancer immunotherapy: Recent advances and challenges.	Journal of Cancer Research and Therapeutics	17(4)	834-844	2021

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
12.	Dhar R, Singh S, Mukherjee I, **Pethusamy K**, Purkayastha K et al.	EMTiness in pseudo-malignant behavior of trophoblasts during embryo implantation.	Frontiers in Bioscience-Landmark	26(4)	717-743	2021
13.	Seethy AA, Singh S, Mukherjee I, **Pethusamy K** et al.	Potential SARS-CoV-2 interactions with proteins involved in trophoblast functions - An in-silico study.	Placenta	103	141-151	2021
14.	Chakraborty M, Singh P, Dsouza JMP, **Pethusamy K** et al.	Fasting and postprandial lipid parameters: A comparative evaluation of cardiovascular risk assessment in prediabetes and diabetes.	J Family Med Prim Care	28;9(1)	287-292	2020
15.	Dhar R, **Pethusamy K**, Singh S, Mukherjee I et al.	Draft genome of Ompok bimaculatus (Pabda fish).	BMC Research Notes	26;12(1)	825	2019
16.	Dhar R, Seethy A, **Pethusamy K**, Singh S et al.	De novo assembly of the Indian blue peacock (Pavo cristatus) genome using Oxford Nanopore technology and Illumina sequencing.	Gigascience	1;8(5)	giz038	2019

Book and Book Chapters:

- Biochemistry For Undergraduates, First Edition, CBS Publishers (ISBN – 9789388725972)
- Eleven chapters in Springer - Nature publication, Encyclopaedia of Animal Cognition and Behaviour

Memberships:

- Member of National Academy of Medical Sciences, India (MNAMS)
- Life member of Association of Medical Biochemists of India (AMBI)
- Life Member of Clinical Biochemists of India (ACBI)
- Life Member of Indian Immunology Society

Positions Available in the Lab:

If you are interested in working on similar projects as ours or have a unique idea in any field that you wish to pursue, please send an email to karthikeyan_p@aiims.edu. People with independent fellowships are welcomed. Let's explore opportunities for collaboration and growth together.