



**Dr.C.D. Mohana Priya**  
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Positions  
available for  
Ph.D. and  
Postdoctoral  
training

### Personal Profile:

Dr. C.D. Mohana Priya is an accomplished professional in genomics and molecular biology with over 20 years of experience in academia and industry. She holds a Ph.D. in Human Genetics and postgraduate diplomas in medical laboratory techniques and bioinformatics. Specializing in high throughput genomic technologies and multi-omics, she delivers precise genetic diagnostics. Her research over the past decade has focused on the molecular network of podocytopathies, particularly Pediatric Nephrotic Syndrome, in collaboration with senior nephrologists. She has worked with renowned institutions and industrial groups, earning recognition through research grants. Dr. Mohana Priya has published extensively in reputable journals and actively mentors Ph.D. fellows while teaching undergraduate and postgraduate students. She plays a key role in validating and reporting molecular genetic tests, contributing significantly to molecular clinical diagnostics.

### Research Interests :

Over the last decade, my focus has been on "Nephro genetics" with a specialization in pediatric nephrotic syndrome. Throughout this period, I have dedicated my efforts to examine the intricate details of the podocyte network and uncovering the mechanisms that lead to podocytopathies. Using omics approaches, our team aim to provide a comprehensive molecular profile of the disease condition. Our primary research revolves around the investigation of mutations and expression patterns in podocyte genes, particularly focusing on the role small RNAs in urine and blood that disturb podocyte structure in pediatric nephrotic syndrome.

### Selected Publications:

1. Mohanapriya C.D, Vettriselvi V, Sangeetha G, Pricilla charmine, Yogalakshmi, Praveen K. Analysis of microRNAs signatures in juvenile glomerular proteinuria. (2023). Journal of Population Therapeutics and Clinical Pharmacology, 30(16), 342-353. <https://doi.org/10.47750/jptcp.2023.30.16.046>
2. Pricilla Charmine, VettriselviV, Sangeetha G, Nammalwar B R, Mohanapriya C.D. A Review on the Role of Actin Cytoskeleton genes of Podocytes in Childhood Nephrotic Syndrome. (2023). Journal of Population Therapeutics and Clinical Pharmacology, 30(16), 330-341 <https://doi.org/10.47750/jptcp.2023.30.16.045>
3. Venkatachalapathy Y, Suresh PKK, Balraj TH, Venkatesan V, Geminiganesan S, C D MP. Clinico-demographic and biochemical correlation of inflammatory gene expression in pediatric nephrotic syndrome. Mol Biol Rep. 2024 Jul 26;51(1):854. doi: 10.1007/s11033-024-09784-z. PMID: 39060482.
4. Charmine P, Venkatesan V, Geminiganesan S, Nammalwar BR, Dandapani MC. MicroRNA Expression and Target Prediction in Children with Nephrotic Syndrome. Indian J Nephrol. doi: 10.25259/ijn\_47\_23
5. Dandapani MC, Venkatesan V, Charmine P, Geminiganesan S, Ekambaram S. Differential urinary microRNA expression analysis of miR-1, miR-215, miR-335, let-7a in childhood nephrotic syndrome. Mol Biol Rep. 2022 Jul;49(7):6591-6600. doi: 10.1007/s11033-022-07500-3. Epub 2022 May 13. PMID: 35553329.

### Grants/Award & Honours:



Department of  
BioTechnology,  
Government  
of India

