

Dr. N. Ayyadurai

Senior Principal Scientist, CSIR–CLRI | Professor – AcSIR (Biological Science)
Research Theme Leader – Collagen Biomaterials
External Faculty – RMIT University, Australia
Honorary Faculty – Anna University

Dr. N. Ayyadurai is a distinguished scientist and research leader with deep expertise in synthetic biology, protein engineering, and recombinant biomaterial development. As Senior Principal Scientist and Theme Leader at the Biotechnology Division of CSIR–CLRI, he has led pioneering work in genetic code expansion, post-translationally modified amino acids, and collagen-based congener biomaterial design. His contributions to creating tailor-made bioinks for 3D bioprinting and advanced biomaterials have positioned him at the forefront of next-generation biomedical innovation.

He has successfully secured and directed multiple high-impact projects funded by CSIR, DBT, MoECF, and ICMR, demonstrating strong capabilities in strategic research leadership and project execution. His DBT-supported project on medical device development has been noted for its transformative potential in medical biotechnology.

Dr. Ayyadurai is actively engaged in shaping scientific talent and driving academic excellence. He serves as a Professor at AcSIR, External Faculty at RMIT University (Australia), and Honorary Faculty at Anna University. Under his mentorship, his research group includes 3 postdoctoral scholars and 6 graduates, fostering a culture of innovation, scientific rigor, and interdisciplinary collaboration.

With an impressive record of publications, breakthroughs in engineered biomaterials, and sustained contributions to national and international research priorities, Dr. Ayyadurai exemplifies scientific excellence, leadership, and dedication to advancing the frontiers of biotechnology.