



ABOUT

## **RUSDINA BTE LADJU**

**MD, PhD**

**Research Interests:** Nanotechnology in Medicine,  
Molecular Genetic, Pharmacogenetic

Dr. R. B. Ladju is a researcher and academic leader specializing in the application of nanotechnology in medicine. She currently serves as Head of the Medical Research Center at the Faculty of Medicine and Hospital, Hasanuddin University, where she leads interdisciplinary research focused on nanomedicine, molecular genetic testing and translational innovation.

Dr. Ladju's scientific work centers on developing nanoscale diagnostic tools and targeted therapeutic strategies for disease such as infectious diseases and cancer. Her pioneering studies on nanotheranostics and aptamer-based nanotechnologies, published in *World Journal of Gastroenterology* and *Oncotarget*, reflect her commitment to advancing precision medicine. She earned her Ph.D. in Molecular Biomedicine (Nanomedicine) from Trieste University, Italy, and conducted cancer stem cell research during a research fellowship at the Italian Liver Foundation. Her academic journey also includes a Medical Doctor (M.D.) degree and Bachelor of Medicine from Hasanuddin University, and a Postgraduate Diploma in Immunology from Gadjah Mada University in collaboration with Vrije Universiteit Amsterdam. Dr. Ladju's recent publications span diverse topics from recombinant antigen development for tuberculosis vaccines, to biomarker discovery in colorectal cancer and ischemic stroke, to in silico drug screening using nanomaterials and bioresources.

Dr. Ladju's has received several prestigious international recognitions for her contributions to biomedical research, particularly in the areas of nanotechnology in medicine:

- Young Investigator Bursary – European Association for the Study of the Liver (EASL), 2019
- Ambassador – European Association for Cancer Research (EACR), 2017–2019
- Attract Young Talent Award – CERN, Sincrotrone Ele9ra, INFN, 2018
- Young Investigator Bursary – European Association for Cancer Research (EACR), 2017

In her role as head of the Hasanuddin University's Medical Research Center, Dr. Ladju fosters interdisciplinary collaboration, mentors early-career researchers, and supports strategic initiatives to enhance the scientific and clinical impact of biomedical research in Indonesia and internationally.