

Center for Dermal Research

Innovations in Dermatological Sciences Conference 2024



Dr. Ravi S. Ananthula

Dr. Ravi S. Ananthula, Chief Scientific Officer at PharmaDEM Solutions, is a distinguished leader in drug development with over 19 years of expertise in drug design, formulation, and manufacturing. He has played pivotal roles in top organizations such as GVKBIO, Dr. Reddy's, and Eli Lilly, USA.

Dr. Ravi has developed two innovative software solutions that elevate the success rate of the API and formulation industries by addressing their most significant challenges with minimal lab activity. These technologies are widely accepted by leading pharmaceutical companies in India and globally.

One of Dr. Ravi's notable achievements is the development of the first virtual skin membrane using coarse-grain modeling. This revolutionary skin model has successfully predicted the skin permeation of APIs, saving numerous in vivo studies and significantly contributing to the development of multiple derma products. His models are instrumental in formulation design, selection of skin permeation enhancers, and optimizing formulations through virtual model-based screening, saving time and costs while promoting environmental sustainability.

Dr. Ravi's impact spans the pharmaceutical value chain, from API discovery to scale-up and pre-formulation. As co-chair of the International Computational Chemistry Consortium, he enhances industry standards. His academic background includes a Ph.D. from IICT, Osmania University, postdoctoral work at Regensburg University, Germany, and an EMBA in project management. With 8 NDAs, over 20 ANDAs, 50+ international publications, and 7 patents, Dr. Ravi is a prolific contributor to pharmaceutical innovation and research.

Through his ground-breaking work, Dr. Ravi has significantly advanced pharmaceutical sciences, fostering innovation and improving drug development processes worldwide.