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India launches first computational lab for quantitative sciences to advance AI in drug development

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For the next generation of clinical pharmacology and pharmacometrics leaders



Dr. Ramalingam Sankaran Computational Lab for Quantitative Sciences was recently inaugurated at PSG Institute of Medical Sciences and Research (PSGIMSR) in Coimbatore.

Developed through a collaboration between US-based PumasAI, the Society of Pharmacometrics and Health Analytics Sciences (SOPHAS), and PSGIMSR, the new state-of-the-art facility represents a significant investment in India's growing scientific ecosystem and is expected to become a leading center for artificial intelligence (AI), healthcare data analytics, pharmacometrics, and model-informed drug development (MIDD).

Powered by a high-performance computing cluster, the laboratory gives students, researchers, and healthcare professionals access to advanced computational resources that support AI-driven drug discovery, predictive health modeling, real-world evidence generation, and quantitative sciences.

The facility will support research across clinical pharmacology, pharmacometrics, machine learning, and healthcare analytics. Students and researchers will participate in live research projects, industry collaborations, and translational research initiatives. Participants will gain hands-on experience applying AI to drug development, clinical data modeling, pharmacometric simulations, and population health analytics alongside experts from academia and industry.

The initiative also strengthens the educational foundation of SOPHAS' AI in Drug Development programme by providing students with dedicated computational infrastructure designed to support advanced scientific research.