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## Pharmacometrics in the translational pharmacology paradigm

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Exciting synergy between disciplines of pharmacokinetics, pharmacodynamics, pharmacogenomics, biostatistics and clinical pharmacology has translated into increased reliance on modeling and simulation strategies for better informing 'go/no-go' decisions, candidate optimization and biomarker validation in the discovery pipeline in pharmaceutical industry. With increasing practice of pharmacometrics in both the drug development and regulatory domains, we are moving away from empirical descriptions of exposure-response relationships towards more sophisticated pharmacometric models which we will exemplify and dissect. Strengths of model-based drug development and potential oversights will be discussed. With pharmacometrics fast occupying centre-stage in the translational medicine paradigm, unmet needs in modeling and simulation as well as future implications for personalized medicine will also be discussed.

### Biography

Sujit Nair is a Professor of Pharmaceutical Sciences and director of the Cancer Discovery Biology Laboratory at Amrita University, India. He is also a member of the International Expert Panel of the National Medical Research Council, Government of Singapore; and a peer reviewer for several international journals. Prior to joining Amrita University, he trained at the Ernest Mario School of Pharmacy and Center for Cancer Research at Rutgers, The State University of New Jersey, USA. His laboratory is funded by grants from the Government of India. He has published 25 manuscripts in peer-reviewed international journals and has authored two books. His current research interests include pharmacometrics, pharmacogenomics and systems pharmacology in discovery research and personalized medicine.

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