



Lecture Code : PL02-S1

Session Name : Plenary Lecture 2

Session Topic : -

Date & Time, Place : June 20 (Fri) / 13:20-14:10 / Room 1+2+3 (GBR 101+102+103)

The Right Drug for the Right Patient With Kidney Disease: a Journey Across Disciplines and Continents

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We are at an incredible exciting time in nephrology, as we finally are bringing new, lifesaving drugs to our patients with kidney disease. Dr. Kretzler, the Warner-Lambert/Parke-Davis Professor of Internal Medicine/Nephrology and Computational Medicine and Bioinformatics and Director of the Michigan Kidney Translational Medicine Center, will present his global research efforts in support of precision medicine for kidney disease. He will introduce strategies to define kidney disease in mechanistic terms and use this knowledge for targeted therapeutic interventions. He will present a translational research pipeline centered on integrated systems biology analysis of renal disease. He will then discuss how interdisciplinary data integration of large-scale data sets in international multi-disciplinary research networks has identified new molecular mechanism, developed new disease predictors and supported successful clinical trials of a novel therapeutic modality. Finally he will present compelling strategies how using clinical trials as a research tool for drug discovery in public private partnerships are accelerating drug development at an unprecedented rate.

Keywords: precision medicine, glomerular diseases, diabetic Kidney disease, systems biology, acute kidney injury