**SPEAKER BIO & PRESENTATION DESCRIPTION**

**PREM KUMAR**

Prem is Professor of Physiological Science and Head of the Institute of Clinical Sciences at the University of Birmingham, UK. His research interests are in the field of chemoreception, with a particular emphasis on carotid body and chemotransduction mechanisms in health and disease and in the reflex responses to hypoxia. He has served on a number of Journal Editorial Boards, including the Journal of Physiology, Respiratory Physiology & Neurobiology and the Journal of Applied Physiology. In addition, he has been a member of the Executive Committee of the Physiological Society and the Chair of its Publications Committee and has served on the International Committee of the American Physiological Society. Prem is an enthusiastic teacher and holds key positions in the delivery and administration of undergraduate and postgraduate training at Birmingham as well as performing duties as an External Examiner at other UK and International Universities. He has held a Lister institute Research Fellowship and in 2016 he was awarded the Otto Hutter Teaching Prize by the Physiological Society.

**SESSION NAME:** Keynote Lecture I  
**PRESENTATION TITLE:** Student-Instructor Interactions in a Large-group Environment  
The gradient of the knowledge-doubling curve in our digital age demonstrates the futility of delivering an increasingly out of date curriculum using didactic methods. Such methods drive an instrumental approach to learning and reduce the meaning, feeling and relevance of the taught material. In contrast, effective active learning returns control to the student and personalizes the experience by relinquishing content delivery for understanding. This interactive lecture will describe the challenges and enjoyment of implementing flipped teaching to large physiology classes.