LECTURE

Noncoding RNAs in cardiac homeostasis and regeneration.

Dr. THIERRY PEDRAZZINI

He is Associate Professor at the University Hospital in Lausanne, Switzerland. His is currently Director of the Experimental Cardiology Unit at the Department of Medicine. After receiving his Master degree in Biochemistry and Biology from the University of Lausanne, Dr Pedrazzini completed his PhD degree in Immunology at the University of Lausanne in 1988. He worked as a postdoctoral research assistant at the Scripps Clinic and Research Foundation, and as a research associate at Cytel Corporation in San Diego, California, before returning to Lausanne to be appointed at the University Hospital. Dr Pedrazzini is also the Director of the "Cardiovascular and Metabolism" program of the PhD School at the Faculty of Biology and Medicine of the University of Lausanne, and Director of the Cardiovascular Assessment Facility, a core facility, which offers a broad range of techniques for the functional evaluation of the cardiovascular system in rodents.

His research is focused on the molecular and cellular mechanisms that are activated in the heart after myocardial infarction. His laboratory is particularly interested in the mechanisms of adaptation, which could lead to regeneration in the damaged myocardium. The Notch pathway has been a research focus since many years. His laboratory has also developed a recent interest in long noncoding RNAs. This novel class of molecules plays important role as regulators of epigenetic remodeling and transcription. His laboratory has published therefore the first description of the cardiac long noncoding transcriptome following myocardial infarction.