

Molecular Mechanisms in Tissue Degeneration and Regeneration

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LECTURE

Redox signaling, Oxidative Stress and Redox-Based Therapeutics.

Dr. RAFAEL RADI

He is Professor and Chairman of Biochemistry, of the School of Medicine at the Universidad de la República in Uruguay, and he is director of the Centre for Free Radical and Biomedical Research. Radi is also President of the Society for Free Radical Research International, member of the Council of Scientific Advisers of the International Centre of Genetic Engineering and Biotechnology, founding Member and Secretary of Science Academy of Uruguay, is a Foreign Member of the Argentinian Academy of Exact, Physical and Natural Sciences and of the Brazilian Academy of Sciences and Foreign Associate of the US National Academy of Sciences.

The focus of his work has been to define the biochemical mechanisms and role of redox signaling and oxidative stress in human physiology and pathology, in particular in inflammatory, infectious and degenerative diseases. Much of the work has been to understand the chemical and cell biology of free radicals and nitric-oxide derived oxidants in the context of altered mitochondrial and cell homeostasis and apoptosis. In parallel with these investigations, he has searched for novel therapeutic strategies for the modulation of oxidative tissue injury, with emphasis in catalytic antioxidants and mitochondrial-targeted compounds.

Doctor Radi received several honors, Discovery Award of the Society for Free Radical Biology and Medicine (SFRBM, 2011); Alexander Von Humboldt Senior Award (2010); National Prize in Science and Technology (2007) and Howard Hughes International Research Scholar (2000-2011).