



# HUMBOLDT LECTURE

Tuesday, June 7<sup>th</sup>, 2011, 5 p.m.

Lecture Hall Abbe-Zentrum Beutenberg, Hans-Knöll-Str. 1, 07745 Jena

## Prof. Dr. Rafael Radi

Departamento de Bioquímica. Facultad de Medicina,  
Universidad de la República, Montevideo, Uruguay

### ***"Free Radicals in Biology: Chemical and Physical Aspects and Impact in Biomedicine"***

Free Radicals are molecules that contain an unpaired electron and are usually short-lived and chemically reactive. Biologically, free radical species are formed continuously and can be part of physiological or pathological processes. Molecular oxygen plays a key role on free radical pathways, with several of its derived intermediates being strongly oxidizing biomolecules. Other radical species, such as nitric oxide, participate in exquisite signaling routes. Unraveling the chemical and physical aspects of free radical biology continues a major research endeavor, with strong ramifications to health, disease and therapeutics.

