

Daniele Piomelli

Distinguished Professor at UC Irvine

Irvine, CA, US

Daniele Piomelli's research is focused on the function of lipid-derived messengers, with particular emphasis on endogenous cannabinoids.

Biography

Dr. Piomelli was trained in neuroscience and pharmacology. Research in his lab is focused on the function of lipid-derived messengers, with particular emphasis on the endogenous cannabinoids anandamide and 2-arachidonoylglycerol. Current research efforts converge on three areas: formation and deactivation of anandamide and 2-arachidonoylglycerol; physiological roles of the endogenous cannabinoid system; development of therapeutic agents that target anandamide and 2-arachidonoylglycerol metabolism. Primary neural cell cultures and state-of-the-art analytical techniques such as liquid chromatography/mass-spectrometry are used to investigate formation and deactivation of anandamide and 2-arachidonoylglycerol in brain cells. Protein purification and cloning approaches are employed to characterize the molecular mechanisms underlying these processes. Cellular pharmacology and medicinal chemistry, in collaboration with leading international labs, are used to identify pharmacological agents that interfere with various aspects of endogenous cannabinoid function, and their therapeutic potential is explored in vitro and in vivo.

Areas of Expertise

Anatomy & Neurobiology, Cellular Pharmacology, CBD, Marijuana, Neuropharmacology

Affiliations

American Association for the Advancement of Science (AAAS) : Member, American College of Neuropsychopharmacology (ACNP) : Member, American Physiological Society (APS) : Member, American Society for Biochemistry and Molecular Biology (ASBMB) : Member, American Society for Pharmacology and Experimental Therapeutics (ASPET) : Member, International Cannabinoid Research Society (ICRS) : Member, Society of Biological Psychiatry (SBP) : Member

Education

Columbia University
PhD Pharmacology

Accomplishments

The Ester Fride Award for Basic Research

2017 The International Association for Cannabinoid Medicines

The Mechoulam Award

2017 The International Cannabinoid Research Society

Avant-Garde Award for Innovative Medication Development Research

2010 National Institute on Drug Abuse (NIDA)

European Lipid Science Award

2012 European Federation of Lipid Science

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