

Juan Andrés Abin Carriquiry, PhD

Instituto de Investigaciones Biológicas Clemente Estable (IIBCE)
Avda. Italia 3318, CP 11700, Montevideo, Uruguay
Tel: +5982 487 16 16 ext 123; jaabin@iibce.edu.uy

Position and Laboratory:

Assistant researcher of Neurochemistry Department, IIBCE (Since 2001)

Researcher in charge of the Analytical Platform, IIBCE (Since 2008)

Member of the *Sistema Nacional de Investigadores* (1st level) (Since 2009)

Professor at postgraduate program *Programa de Desarrollo de las Ciencias Básicas (PEDECIBA)* in Chemistry (4th level) and Biology (3rd level) (Since 2011)

Studies:

Pharmaceutical Chemist, Facultad de Química, Universidad de la República, Montevideo, Uruguay, 2001. PhD in Chemistry (Neuropharmacology), Facultad de Química, Universidad de la República, Montevideo, Uruguay, 2010.

Topics of interest:

Neurodegenerative diseases and neuroprotection, Natural products, Structural bioinformatics and Drugs of abuse

Graduate and Postgraduate Training

Tutor or co-tutor of 1 MSc in Chemistry, 3. MSc in Biotechnology, 1. MSc in Biomedicine Research and 7. Graduates final projects already finished under several graduate and postgraduate programs.

In course 1. PhD in Chemistry, 1. MSc in Biomedicine Research, 1. MSc in Bioinformatics, 2. MSc in Biology, 2 Graduates final projects under several graduate and postgraduate programs.

Publications: Total 41

Selected Relevant Publications:

1. Dajas F, Abin-Carriquiry JA, Arredondo F, Blasina F, Echeverry C, Martínez M, Rivera F, Vaamonde L. Quercetin in brain diseases; Potential and limits; **Neurochem Int.** 2015

3. C. Echeverry; F. Arredondo; M Martinez; Juan Andres Abin-Carriquiry; JO. Midiwo; F. Dajas; Antioxidant Activity, Cellular Bioavailability, and Iron and Calcium Management of Neuroprotective and Nonneuroprotective Flavones. **Neurotoxicity Research**, 2015

5. F. Arredondo; C. Echeverry; F. Blasina; L. Vaamonde; M Diaz; F. Rivera; M Martinez; Juan Andres Abin-Carriquiry; F. Dajas; Flavones and Flavonols in Brain and Disease; **Book chapter: Bioactive Nutraceuticals and Food Supplements in Neurological and Brain Disease; 2015**

10. F. Dajas; Juan Andres Abin-Carriquiry; F. Arredondo; C. Echeverry; F. Rivera; Neuroprotective Actions of Flavones and Flavonols: Mechanisms and Relationship to Flavonoid Structural Features; **Current Medicinal Chemistry - Central Nervous System Agents**, 2013

19. F. Dajas; Juan Andres Abin-Carriquiry; F. Arredondo; F. Blasina; M Diaz; C. Echeverry; F. Rivera; L. Vaamonde. The neuroprotective capacity of Achyrocline satureioides (Lam) D.C. and its flavonoids. Mechanisms of action, **Book Chapter: Herbal Medicines for Human Health: Development and Evaluation of Plant-Derived Medicines**, 2011.

21. Juan Andres Abin-Carriquiry; M. Paulino; BK Cassels; S. Wonnacott; F. Dajas; In silico characterization of cytisinoids docked into an acetylcholine binding protein. **Bioorganic & Medicinal Chemistry Letters**, 2010

22. Juan Andres Abin-Carriquiry; J Urbanavicius; C. Scorza; M. Rebolledo-Fuentes; S. Wonnacott; BK Cassels; F.Dajas; Increase in locomotor activity after acute administration of the nicotinic receptor agonist 3-bromocytisine in rats. **European Journal of Pharmacology, 2010**
23. C. Echeverry; Juan Andres Abin-Carriquiry; F. Arredondo; JO Midiwo; Ochieng C; L Kerubo ; F. Dajas; Pretreatment with natural flavones and neuronal cell survival after oxidative stress: a structure-activity relationship study. **Journal of Agricultural and Food Chemistry, 2010**
24. F. Arredondo; C. Echeverry; Juan Andres Abin-Carriquiry; F. Blasina; K. Antúnez; DP Jones; Ym Go; YI Liang; F. Dajas; After cellular internalization, quercetin causes Nrf2 nuclear translocation, increases glutathione levels, and prevents neuronal death against an oxidative insult. **Free Radical Biology and Medicine, 2010.**
27. F. Rivera; G. Costa; Juan Andres Abin-Carriquiry; J Urbanavicius; C. Arruti; G. Casanova; F. Dajas; Reduction of ischemic brain damage and increase of glutathione by a liposomal preparation of quercetin in permanent focal ischemia in rats. **Neurotoxicity Research, 2008**
28. Juan Andres Abin-Carriquiry; G. Costa; J Urbanavicius; Bk Cassels; M. Rebolledo-Fuentes; S. Wonnacott; F.Dajas; In vivo modulation of dopaminergic nigrostriatal pathways by citisine derivatives: implications for Parkinson's disease. **European Journal of Pharmacology, 2008**
31. Juan Andres Abin-Carriquiry; M. Kauppinen; J. Barik; BK Cassels; P Iturriaga-Vasquez; I. Bermudez; C. Durand; F. Dajas; S. Wonnacott; C3-Halogenation of cytosine generates potent and efficacious nicotinic receptor agonists. **European Journal of Pharmacology, 2006**
33. BK Cassels; I. Bermudez; F. Dajas; Juan Andres Abin-Carriquiry; S. Wonnacott; From ligand design to therapeutic efficacy: the challenge for nicotinic receptor research. *Drug Discovery Today*, 2005
34. F. Arredondo; F. Blasina; C. Echeverry; A. Morquio; M. Ferreira; L. Lafon; Juan Andres Abin-Carriquiry; F.Dajas; Neuroprotection by *Achyrocline satureioides* (Lam) D.C. and some of its main flavonoids against oxidative stress. **Journal of Ethnopharmacology, 2004**
36. F. Dajas; F. Rivera; F. Blasina; F. Arredondo; Juan Andres Abin-Carriquiry; G. Costa; C. Echeverry; L. Lafon; H. Heinzen; M. Ferreira; A. Morquio; Neuroprotection by flavonoids. **Brazilian Journal of Medical and Biological Research, 2003**
37. Juan Andres Abin-Carriquiry; R McGregor-Armas; G. Costa; J Urbanavicius; F. Dajas; Presynaptic involvement in the nicotine prevention of the dopamine loss provoked by 6-OHDA in the substantia nigra. **Neurotoxicity Research, 2002**
40. G. Costa; Juan Andres Abin-Carriquiry; F. Dajas; Nicotine prevents striatal dopamine loss provoked by 6-hydroxydopamine lesion in the substantia nigra. **Brain Research, 2001**