

## CURRICULUM VITAE

**NAME:** Joaquim Alexandre Ribeiro. **DATE OF BIRTH:** 9th August, 1941, Vila Fernando –Guarda, Portugal. **NATIONALITY:** Portuguese. **ID:** nº 1582055, of Lisboa, 5-5-2004

### **AREA OF INVESTIGATION:**

Neurosciences. Neuropharmacology. Neurophysiology. Synaptic Plasticity. Cardiovascular Pharmacology.

**DEGREES:** **M.D.** (University of Lisbon). **Ph.D.** (University of Edinburgh). **'Agregação'** (University of Porto).

### **POSITIONS and RESEARCH CAREER**

2010/2011 – Coordinator (Vice-Rector) of the Health Sciences Strategic Area of the University of Lisbon

2005/2010 – Pro Rector of the University of Lisbon.

2004 – Vice-Dean of the Faculty of Medicine, University of Lisbon.

2005-2011 – Vice-President of Instituto de Medicina Molecular (IMM).

2004 – PI at the Unit of Neurosciences, Institute of Molecular Medicine

2002 - Director of the Institute of Pharmacology and Neurosciences, Faculty of Medicine, University of Lisbon.

1997 - Full Professor at the Faculty of Medicine, University of Lisbon

1997/00 – Director of Laboratory of Neurosciences, Faculty of Medicine, University of Lisbon.

1988/97 - Professor (catedrático) (invited) at the Institute for Biomedical Sciences Abel Salazar, University of Porto.

1985/87 - President of the Studies Committee of the Gulbenkian Institute of Science.

1983/85 - President of the Scientific Council of the Gulbenkian Institute of Science.

1982/97 - Head of the Laboratory of Pharmacology of the Gulbenkian Institute of Science.

1988/97 - Senior Investigator at the Gulbenkian Institute of Science.

1982/88 - Investigator at the Gulbenkian Institute of Science.

### **HONERS AND AWARDS**

1972 - Pfizer Prize for Young Investigators

1983 - Lepetit Prize of the Portuguese Physiological Society

1993 – Prémio Egas Moniz/Boehringer Ingelheim

1995 - Honours of Prémio da Boa Esperança

1997 - Portuguese Pharmacological Society Prize

2000 – Elected Académico Correspondente da Academia Portuguesa de Medicina

2002 - Pfizer Prize (honours)

2002 – Elected Member of EDAB (European Dana Alliance for Brain Initiatives)

2005 – ‘Estímulo à Excelência’, FCT

2006 – Elected Académico Correspondente da Real Academia de Farmacia, Spain

2007 – Elected Académico Efectivo da Academia Portuguesa de Medicina

2008 – Elected Member of the International Scientific Board of “Real Academia de Farmacia”

### **COMMITTEES**

2013 – Member of the Advisory Board of Portuguese Society for Neurosciences 2013-Meeting.

2007/2011 – Member of the Standing Committee of European Medical Research Council, European Science Foundation

2006/10 - Member of the Managing Committee of the COST Action B30 –NEREPLAS on Neuronal Plasticity

1997/05 - Member of the Managing Committee of the COST Action B10 on Brain Repair, coordinator of the Neuroprotection group

1994. – Member of the committee of EU on Brain Research (Brussels)

### **INVOLVEMENT IN POST-GRADUATE TRAINING**

1997-2007: Coordinator of the Mastercourse/PhD in Neurosciences at FMUL

Supervisor of Ph.D. students. Supervisor of M.Sc. students. Supervisor of Pre-graduate students (Thesis). Post-doctoral supervision

### **EDITORIAL BOARDS of SCIENTIFIC JOURNALS (member)**

*Autonomic Neuroscience, European Journal of Pharmacology (1994-2004., Basic & Clinical Pharmacology & Toxicology(1995.2008., Purinergic Signalling., Anales de la Real Academia de Farmacia., Journal of Caffeine Research, Scientific World Journal, Pharmacologia.*

### **PUBLICATIONS**

**Papers in refereed Journals:**

206. Cristóvão-Ferreira S., Gemma Navarro, G., Brugarolas M., Pérez-Capote K., Vaz S.H., Fattorini G., Conti F., Lluís C., **Ribeiro, J.A.**, McCormick P.J., Casadó V., Franco R. and Sebastião A M (2013) A1R-A2AR heteromers coupled to Gs and Gi/o proteins modulate GABA transport into astrocytes. *Purinergic Signalling (in press pubmed online)*
205. Sousa V C, **Ribeiro J A.** \* and Sebastião Ana M. (2013). Caffeine and adenosine receptor modulation of cannabinoid influence upon cognitive function. *Journal of Caffeine Research*, 3, 85-95.
204. Sebastião, A.M. Colino-Oliveira, M Assaife-Lopes, N., Dias, R B and **Ribeiro, J.A.** and (2013). Lipid rafts, synaptic transmission and plasticity: impact in age-related neurodegenerative diseases. *Neuropharmacology*. 64:97-107.
203. Dias R B, Rombo , D M, Ribeiro J A, Henley JM, and Sebastião A M (2013). Adenosine: setting the stage for plasticity. *TINS*, 36:248-257.
202. Sebastião A M, Ribeiro, F F and **Ribeiro J A** (2012). From A1 to A3 *en passant* through A2A Receptors in the Hippocampus: Pharmacological Implications. *CNS & Neurological Disorders – Drug Targets*, 11, 652-663.
201. Diógenes M J, Neves-Tomé R, Fucile S, Martinello K, Scianni M, Theofilas P, Lopatář J, **Ribeiro J A**, Maggi L, Frenguelli B G, Limatola C, Boison D, Sebastião A M (2012). Homeostatic control of synaptic activity by endogenous adenosine is mediated by adenosine kinase (*Cer Cortex online*)
200. Couto FS, Batalha VL, Valadas JS, Data-Franca J, **Ribeiro JA**, Lopes LV. (2012). Escitalopram improves memory deficits induced by maternal separation in the rat. *Eur J Pharmacol*. 695:71-75.
199. Dias R B, Rombo , D M, Ribeiro J A and Sebastião A M (2012). Ischemia-induced synaptic plasticity drives sustained expression of calcium-permeable AMPA receptors in the hippocampus. *Neuropharmacology*. 65:114-122.
198. Pousinha, P.A., Correia, AM , Sebastião, A.M and **Ribeiro, J.A.** (2012). Neuromuscular transmission modulation by adenosine upon aging. *Neurobiol Aging*. 33:2869-2880
197. Dias R B, **Ribeiro J A** and Sebastião A M (2012). Enhancement of AMPA currents and GluR1 membrane expression through PKA-coupled adenosine A2A receptors *Hippocampus*, 22: 276-291.
196. Vaz S. H., Jørgensen T. N., Cristóvão-Ferreira S, Duflot S, **Ribeiro J A**, Gether U. and Sebastião A. M. (2011). Brain-derived neurotrophic factor (BDNF) enhances GABA transport by modulating the trafficking of GABA transporter-1 (GAT-1) to the plasma membrane of rat cortical astrocytes. *J Biol Chem*, 286: 40464-40476.
195. Cristóvão-Ferreira S, Navarro G, Brugarolas M, Pérez-Capote K, Vaz SH, Fattorini G, Conti F, Lluís C, **Ribeiro JA**, McCormick PJ, Casadó V, Franco R, Sebastião AM. (2011). Modulation of GABA Transport by Adenosine A1R-A2AR Heteromers, Which Are Coupled to Both Gs- and Gi/o-Proteins. *J Neurosci*. 31:15629-15639.
194. Costenla AR, Diógenes MJ, Canas PM, Rodrigues RJ, Nogueira C, Maroco J, Agostinho PM, **Ribeiro JA**, Cunha RA, de Mendonça A (2011). Enhanced role of adenosine A(2A) receptors in the modulation of LTP in the rat hippocampus upon ageing *Eur.J. Neurosci.*, 34:12-21.
193. Moreno, E., Sandra Vaz, Ning-Sheng Cai, Carla Ferrada, Cesar Quiroz, Sandeep Kumar Barodia, Nadine Kabbani, Enric I. Canela, Peter J. McCormick, Carme Lluís, Rafael Franco, **Joaquim A Ribeiro**, Ana M Sebastião, and Sergi Ferré (2011). Dopamine-galanin receptor heteromers modulate cholinergic neurotransmission in the rat ventral hippocampus. *J Neurosci*, 31:7412–7423.
192. Diógenes, M.J., Costenla, A.R., Lopes, L.V., Jerónimo, A.S., Sousa, V.C., Fontinha, B.M., **Ribeiro, J.A.** and Sebastião, A.M. (2011). Enhancement of LTP in aged rats is dependent on endogenous BDNF. *Neuropsychopharmacology*, 36:1823-1836.
191. Aroeira RI, **Ribeiro JA**, Sebastião AM and Valente CA (2011). Age-related changes of glycine receptor at the rat hippocampus: from the embryo to the adult. *J Neurochem*, 118: 339-353.
190. Lopes, L.V., Sebastião, A.M. and **Ribeiro, J.A.** (2011). Adenosine and related drugs in brain diseases: present and future in clinical trials *Curr Topics Med Chem* 11:1087-1101.
189. Sebastião, A.M., Assaife-Lopes, N., Diógenes, M.J., Vaz, S., and **Ribeiro, J.A.**, (2011) Modulation of brain-derived neurotrophic factor (BDNF) actions in the nervous system by adenosine A2A receptors and the role of lipid rafts *BBA Biomembranes Biochimica et Biophysica Acta* 1808, 1340–1349.
188. Sousa V C., Assaife-Lopes, N., Brett, R. R., **Ribeiro J. A.**, Pratt, J A, Sebastião A. M. (2011). Regulation of hippocampal cannabinoid CB1 receptor actions by adenosine A1 receptors and chronic caffeine administration: implications for the effects of  $\Delta^9$ -tetrahydrocannabinol on spatial memory. *Neuropsychopharmacology*, 36: 472-487.
187. **Ribeiro J.A.** (2010). Neuroética, a emergência de uma nova disciplina em neurociências. *Sinapse*, 40, 32-33.
186. **Ribeiro, J. A.** and Sebastião A. M. (2010). Modulation and MetaModulation of Synapses by Adenosine. *Acta Physiol* 199, 161-169.
185. **Ribeiro J A** and Sebastião A M (2010). Caffeine and Adenosine. *J Alzheimer dis.*, 20, 3-15.
184. Assaife-Lopes, N., Sousa V. C., Pereira D. B, **Ribeiro J. A.**, Chao M. V. and Sebastião A. M. (2010). Activation of adenosine A2A receptors induces TrkB translocation and increases BDNF-mediated phospho-TrkB localization in lipid rafts: implications for neuromodulation. *J Neurosci.*, 30: 8468–8480.
183. Pedata, F, Pugliese, A M, Sebastião A M and **Ribeiro J A.** (2010). Adenosine A<sub>3</sub> receptor signaling in the central nervous system. **A3 Adenosine Receptors from Cell Biology to Pharmacology and Therapeutics**, P.A. Borea (ed) , DOI 10.1007/978-90-481-3144-0\_1, Springer Science+Business Media B.V.
182. Pousinha, P.A., Sebastião, A.M and **Ribeiro, J.A.** (2010). Predominance of adenosine excitatory over inhibitory effects on transmission at the neuromuscular junction of infant rats *J Pharmacol Exp Ther*. 2010, 332:153-163.
181. Serpa, A., Ribeiro, J A and Sebastião, A M (2009). Cannabinoid CB1 and Adenosine A1 receptors independently inhibit hippocampal synaptic transmission *Eur J Pharmacol* 623, 41-46.

180. Sebastião AM and **Ribeiro JA** (2009). Tuning and Fine-tuning synapses with adenosine, **Current Neuropharmacol**, **7**, 180-194.
179. Sebastião AM and **Ribeiro J A** (2009). Adenosine Receptors and the Central Nervous System, **Handbook Exp Pharmacol**, **193**: 471-534.
178. Sebastião, A.M and **Ribeiro, J.A.** (2009). Triggering neurotrophic factor actions through adenosine A2A receptor activation: implications for neuroprotection **Br J Pharmacol**, **158**: 15-22.
177. Fontinha, B, Delgado-García, J M, Madroñal, N. **Ribeiro, J. A.**, Sebastiao, A. M. and Gruart A. (2009). Adenosine A2A receptor modulation of hippocampal CA3-CA1 synapse plasticity during associative learning in behaving mice" **Neuropsychopharmacology**, **34**:1865-1874
176. Cristovão-Ferreira, S., Vaz, S., **Ribeiro, J.A.** and Sebastião, A.M. (2009). Adenosine A2A receptors, through PKA activation, restrain PKC inhibition of GAT-1-mediated GABA uptake by nerve terminals. **J Neurochem.**, **109**, 336-347.
175. Gomes CA, Simões PF, Canas PM, Quiroz C, Sebastião AM, Ferré S, Cunha RA, **Ribeiro JA**. (2009). GDNF control of the glutamatergic cortico-striatal pathway requires tonic activation of adenosine A<sub>2a</sub> receptors. **J Neurochem.**, **108**, 1208-1219.
174. Serpa A., **Ribeiro, J.A.** e Sebastião, A.M. (2009). Adenosine A1 and cannabinoid CB1 receptors independently inhibit hippocampal synaptic transmission. **Rev Fac Med Lisboa**, **14**, 59-64.
173. **Ribeiro, JA** (2008). Fine tuning neuromodulation by adenosine and neuroprotection. **An R. Acad. Nac. Farm.**, **74**, **387-408**.
172. Fernandes, C., Pinto-Duarte, A. **Ribeiro, J.A.** And Sebastião, A.M. (2008) Postsynaptic action of brain-derived neurotrophic factor attenuates alpha7 nicotinic acetylcholine receptor-mediated responses in hippocampal interneurons. **J Neurosci.**,**28**, 5611-5618.
171. Vaz S. Ferreira, A:S., **Ribeiro, J.A.** And Sebastião, A.M. (2008). Brain-derived neurotrophic factor inhibits GABA uptake by the rat hippocampal nerve terminals **Brain Res.**, **1219**:19-25
170. Fontinha B.M., **Ribeiro, J.A.** & Sebastião, A.M. (2008). Enhancement of long –term potentiation by BDNF requires adenosine A2A receptor activation by endogenous adenosine **Neuropharmacology**, **54**, 924-933.
169. Cunha-Reis, D., **Ribeiro, J.A.** & Sebastião, A.M. (2008). A(1) and A(2A) receptor activation by endogenous adenosine is required for VIP enhancement of K(+)-evoked [(3)H]-GABA release from rat hippocampal nerve terminals. **Neurosci Letts** **430**, 207-212.
168. BIBER K, PINTO-DUARTE, A., WITTENDORP, MC, DOLGA, AM, FERNANDES, CC, KUNZEL JVFD, KEIJSER, JN, DEVRIES, R, IJZERMAN, AP, **RIBEIRO, JA**, EISEL, U, SEBASTIÃO AM and BODDEKE, GM. (2008). Interleukin-6 upregulates neuronal adenosine A1 receptors: implications for neuromodulation and neuroprotection. **Neuropsychopharmacology** **33**, 2237–2250.
167. DIÓGENES, M.J., ASSAIFE-LOPES N. PINTO-DUARTE A, **RIBEIRO, J.A.**,& SEBASTIÃO, A.M. (2007). Influence of age on BDNF modulation of hippocampal synaptic transmission: interplay with adenosine A<sub>2A</sub> receptors. **Hippocampus**,**17**: 577-585.
166. CUNHA-REIS, D., FONTINHA, B., **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (2007). Tonic adenosine A1 and A2A receptor activation is required for the excitatory action of VIP on synaptic transmission in the CA1 area of the hippocampus. **Neuropharmacology** **52**, 313-320.
165. QUIROZ, C., GOMES, C, PAK A.C., **RIBEIRO J.A.**, GOLDBERG, S.R., HOPE, B.T. and FERRÉ, S. (2006). Blockade of adenosine A2A receptors prevents protein phosphorylation in the striatum induced by cortical stimulation. **J. Neurosci.**, **18**, 10808-10812.
164. GOMES, C.A.R.V., VAZ, S.H., **RIBEIRO J.A.** & SEBASTIÃO, A.M (2006). Glial cell line-derived neurotrophic factor enhances dopamine release from striatal nerve endings in an adenosine A2A receptor dependent manner. **Brain Res.**, **1113**, 129-136.
163. CUNHA-REIS, D., **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (2006). VPAC2 receptor activation mediates VIP enhancement of population spikes in the CA1 area of the hippocampus. **Ann NY Acad Sci.**, **1070**, 210-214.
162. FRAGATA, I., **RIBEIRO, J.A.** & SEBASTIÃO, A M. (2006). Nitric oxide mediates interactions between GABA-A receptors and adenosine A1 receptors in the rat hippocampus. **Eur J Pharmacol.**, **543**, 32-39.
161. POUSINHA, P.A., DIÓGENES, M.J., **RIBEIRO, J.A.** & SEBASTIÃO, A.M (2006). Triggering of BDNF facilitatory action on neuromuscular transmission by adenosine A2A receptors. **Neurosci Letts**, **404**, 143-147.
160. COELHO J.E., REBOLA, N., FRAGATA, I., **RIBEIRO, J.A.** de MENDONÇA, A. and CUNHA, R. A. (2006). Hypoxia-induced desensitization and internalization of adenosine A1 receptors in the rat hippocampus. **Neuroscience**, **138**, 1195-1203.
159. CUNHA-REIS, D., SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (2005) VIP enhances synaptic transmission to hippocampal CA1 pyramidal cells through activation of both VPAC1 and VPAC2 receptors. **Brain Res.**, **1049**, 52-60.
158. SILVA, B.M., de MENDONÇA, A. & **RIBEIRO, J.A.** (2005). Long-term depression is not modulated by ATP receptors in the rat CA1 hippocampal region. **Neurosci. Letts**, **383**, 345-349.
157. **RIBEIRO, J.A.** (2005). What adenosine neuromodulation can do for neuroprotection. **Curr. Drug Targets: CNS & Neurol. Disorders**, **4**, 327-331.

156. PINTO-DUARTE, A. COELHO, J.E.; CUNHA, R.A. **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (2005). Adenosine A2A receptors control the extracellular levels of adenosine through modulation of nucleoside transporters activity in the rat hippocampus. **J Neurochem.**, **93**, 595-604.
155. CUNHA-REIS, D., SEBASTIÃO, A.M. WIRKNER, K. ILLES, P. & **RIBEIRO, J.A.** (2004). VIP enhances both pre- and postsynaptic GABAergic transmission to hippocampal interneurons leading to increased excitatory synaptic transmission to CA1 pyramidal cells. **Br J Pharmacol.**, **143**:733-744.
154. CANAS, N., PEREIRA, I.T., **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (2004) Brain-derived neurotrophic factor facilitates glutamate and inhibits GABA release from hippocampal synaptosomes through different mechanisms. **Brain Res** **1016**, 72-78
153. ILLES, P & **RIBEIRO, J.A.** (2004). Neuronal P2 receptors of the central nervous system. **Cur Topics Med Chem**, **4**, 831-838.
152. DIÓGENES, M.J., FERNANDES, C.C., SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (2004). Activation of adenosine A2A receptor facilitates BDNF modulation of synaptic transmission in hippocampal slices. **J. Neurosci.**, **24**, 2905-2913.
151. ILLES, P & **RIBEIRO, J.A.** (2004). Molecular physiology of P2 receptors in the central nervous system. **Eur J Pharmacol.**, **483**, 5-17.
150. CUNHA, R.A., **RIBEIRO, J.A.** & MALVA, J.O. (2004). Presynaptic kainate receptors modulating glutamatergic transmission in the rat hippocampus are inhibited by arachidonic acid. **Neurochem. Int.**, **44**, 371-379.
149. ALMEIDA T, RODRIGUES RJ, de MENDONÇA A, **RIBEIRO JA**, CUNHA RA. (2003). Purinergic P2 receptors trigger adenosine release leading to adenosine A(2A) receptor activation and facilitation of long-term potentiation in rat hippocampal slices. **Neuroscience**. **122**:111-121.
148. **RIBEIRO, J.A.** (2003) Fine tuning modulation of neurotransmission. **J. Vet. Pharmacol. & Ther.**, **26**, 6-11.
147. **RIBEIRO, J.A.**, SEBASTIÃO, A.M. de MENDONÇA, A., (2003). Participation of adenosine receptors in neuroprotection **Drug news & perspectives**, **16**, 80-86.
- 146 **RIBEIRO, J.A.** LOBO M.G.B. & SEBASTIÃO, A.M. (2003 ). Endogenous adenosine modulation of 22Na uptake by rat brain synaptosomes. **Neurochem Res**, **28**, 1589-1593.
145. ALMEIDA, C. G., de MENDONÇA, A., CUNHA, R.A. & **RIBEIRO, J.A.** (2003). Adenosine promotes neuronal recovery from reactive oxygen species induced lesion in rat hippocampal slices. **Neurosci. Letts**, **339**, 127-130.
144. REBOLA, N., SEBASTIÃO, A.M., de MENDONÇA, A., OLIVEIRA, C.R., **RIBEIRO, J.A.** & CUNHA, R.A. (2003). Enhanced adenosine A2A receptor facilitation of synaptic transmission in the hippocampus of aged rats. **J Neurophysiol.**, **90**, 1295-1303.
143. LOPES, L.V., REBOLA, N., COSTENLA A.R., HALLDNER, L., JACOBSON, M.A., OLIVEIRA, C.R., RICHARDSON, P.J., FREDHOLM, B.B., **RIBEIRO, J. A.** & CUNHA, R.A. (2003). Adenosine A3 receptors in the rat hippocampus: lack of interaction with A1 receptors. **Drug Develop. Res.**, **58**, 428-438.
142. MAGALHÃES-CARDOSO, M.T., PEREIRA, M.F., OLIVEIRA, L., **RIBEIRO, J.A.**, CUNHA, R.A. & CORREIA-de-SÁ, P. (2003). Ecto-AMP deaminase blunts the ATP-derived adenosine A2A receptor facilitation of acetylcholine release at rat motor nerve endings. **J. Physiol.Lond.**, **549**, 399-408.
141. **RIBEIRO, J.A.**, SEBASTIÃO, A.M. de MENDONÇA, A., (2002). Adenosine receptors in the nervous system: pathophysiological implications. **Prog. Neurobiol.** **68**, 377-392.
140. CASCALHEIRA, J.F., SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (2002). Pertussis toxin-sensitive G proteins mediate the inhibition of basal phosphoinositide metabolism caused by adenosine A1 receptors in rat hippocampal slices. **Neurochem. Res.**, **27**, 1707-1711.
139. LOPES, L.V., CUNHA, R.A., KULL, B., FREDHOLM, B.B. & **RIBEIRO, J. A.** (2002). Adenosine A2A receptor facilitation of hippocampal synaptic transmission is dependent on tonic A1 receptor inhibition. **Neuroscience**, **112**, 319-329.
138. CUNHA, R.A., COELHO, J. E., COSTENLA, A.R., LOPES, L. V., PARADA, A. de MENDONÇA, A., SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (2002). Effects of carbamazepine and novel 10, 11-dihydro-5H-dibenz(b,f)azepine-5-carboxamide derivatives on synaptic transmission in rat hippocampal slices. **Pharmacol. & Toxicol.**, **90**, 208-213.
137. DIAZ-HERNANDEZ, M., PEREIRA, M.F., PINTOR, J., CUNHA, R.A., **RIBEIRO, J.A.**, & MIRAS-PORTUGAL, M.T., (2002). Modulation of the rat hippocampal dinucleotide receptor by adenosine receptor activation, **J Pharmacol Exp Ther.**; **301**: 441-50.
136. de MENDONÇA, A.COSTENLA, A.R. & **RIBEIRO, J. A.** (2002). Persistence of the neuromodulatory effects of adenosine on synaptic transmission after long-term potentiation and long-term depression. **Brain Res.**, **932**, 56-60.
135. SEBASTIÃO, A.M., DE MENDONÇA, A., MOREIRA, T. & **RIBEIRO, J.A.** (2001). Activation of synaptic NMDA receptors by action potential-dependent release of transmitter during hypoxia impairs recovery of synaptic transmission upon reoxygenation. **J. Neurosci.**, **21**, 8564-8571.
134. CORREIA-DE-SÁ, P., TIMÓTEO, M.A. & **RIBEIRO, J.A.** (2001). Synergism between A2A-adenosine receptors activation and vasoactive intestinal peptide to facilitate 3H-acetylcholine release from the rat motor nerve terminals. **Neurosci. Letts**, **309**, 101-104.

133. RIBEIRO, J.A., CUNHA-REIS, D., LOPES, L.V., COELHO, J.E., COSTENLA, A.R., CORREIA-DE-SÁ, P., CUNHA, R.A., de MENDONÇA, A. & SEBASTIÃO, A.M. (2001). Adenosine receptor interactions in the hippocampus. **Drug Develop. Res.**, **52**, 337-345.
132. SEBASTIÃO, A.M., DE MENDONÇA, A. & RIBEIRO, J.A. (2001) Neuroprotection during hypoxic insults: role of adenosine. **Drug Dev. Res.**, **52**, 291-295.
131. DE MENDONÇA, A. & RIBEIRO, J. A. (2001). Adenosine and Synaptic Plasticity. **Drug Dev. Res.**, **52**, 283-290.
130. COSTENLA, A.R., LOPES, L.V., de MENDONÇA, A. & RIBEIRO, J.A. (2001). A functional role for adenosine A3 receptors: modulation of synaptic plasticity in the rat hippocampus **Neurosci. Letts**, **302**, 53-57.
129. CUNHA, R.A., CONSTANTINO, M.D., FONSECA, E. & RIBEIRO, J.A. (2001). Age-dependent effects of *cis*-unsaturated free fatty acids on adenosine A1 receptors. **Eur. J. Biochem.**, **268**, 2939-2947.
128. CUNHA, R.A., ALMEIDA, T., & RIBEIRO, J.A. (2001). Parallel modification of adenosine extracellular metabolism and modulatory action in the hippocampus of aged rats. **J Neurochem.**, **76**, 372-382.
127. SEBASTIÃO, A.M. CUNHA, R.A. DE MENDONÇA, A. & RIBEIRO, J.A. (2000). Modification of adenosine modulation of synaptic transmission in the hippocampus of aged rats. **Br. J. Pharmacol.**, **131**, 1629-1634.
126. CUNHA, R.A., ALMEIDA, T., & RIBEIRO, J.A. (2000). Modification by arachidonic acid of extracellular adenosine metabolism and neuromodulatory action in the rat hippocampus **J. Biol. Chem.**, **275**, 37572-37581.
125. PEREIRA, M.F., HERNANDEZ, M.D., PINTOR, J., MIRAS-PORTUGAL, M.T., CUNHA, R.A. & RIBEIRO, J.A. (2000). Diadenosine polyphosphates facilitate the evoked release of acetylcholine from rat hippocampal nerve terminals. **Brain Res.**, **879**, 50-54.
124. DE MENDONÇA, A., SEBASTIÃO, A.M. & RIBEIRO, J. A. (2000) Adenosine- does it have a neuroprotective role after all? **Brain Res. Rev.**, **33**, 258-274.
123. DE MENDONÇA, A. & RIBEIRO, J. A. (2000). Long-term Potentiation observed upon blockade of adenosine A1 receptors in rat hippocampus is N-methyl-D-aspartate receptor-dependent. **Neurosci. Letts**, **291**, 81-84.
122. CORREIA-DE-SÁ, P., TIMÓTEO, M.A. & RIBEIRO, J.A. (2000). Influence of stimulation on Ca<sup>2+</sup> recruitment triggering 3H acetylcholine release from the rat motor nerve endings. **Eur. J. Pharmacol.**, **406**, 355-362.
121. SEBASTIÃO, A.M. & RIBEIRO, J.A. (2000) Fine tuning neuromodulation by adenosine **Trends Pharmacol. Sci.**, **21**, 341-346.
120. SALGADO, A.I. CUNHA, R.A. & RIBEIRO, J. A. (2000) Facilitation by P2 receptor activation of acetylcholine release from rat motor nerve terminals: interaction with presynaptic nicotinic receptors. **Brain Res.**, **877**, 245-250.
119. CUNHA, R.A. & RIBEIRO, J.A. (2000) Adenosine A2A receptor facilitation of synaptic transmission in the CA1 area of the rat hippocampus requires protein kinase C but not protein kinase A activation **Neurosci. Letts**, **289**, 127-130.
118. CUNHA, R.A. & RIBEIRO, J. A. (2000) ATP as a presynaptic modulator (mini-review) **Life Sci.**, **68**, 119-137.
117. COELHO, J.E., DE MENDONÇA, A. & RIBEIRO, J. A. (2000). Presynaptic inhibitory receptors mediate the depression of synaptic transmission upon hypoxia in rat hippocampal slices. **Brain Res.**, **869**, 158-165.
116. CORREIA-DE-SÁ, P., TIMÓTEO, M.A. & RIBEIRO, J.A. (2000). A2A-adenosine receptor facilitation of neuromuscular transmission: influence of stimulus paradigm on calcium mobilization. **J Neurochem.**, **74**, 2462-2469.
115. PEREIRA, M.F., CUNHA, R.A. & RIBEIRO, J.A. (2000). Tonic adenosine neuromodulation is preserved in motor nerve endings of aged rats. **Neurochem. Int.**, **36**, 563-566.
114. CUNHA, R.A. & RIBEIRO, J.A. (2000). Purinergic modulation of 3H GABA release from rat hippocampal nerve terminals. **Neuropharmacol.** **39**, 1156-1167.
113. CUNHA, R.A., MALVA, J.O. & RIBEIRO, J.A. (2000). Pertussis toxin prevents presynaptic inhibition by kainate receptors of rat hippocampal 3H-GABA release. **FEBS Lett**, **469**, 159-162.
112. SEBASTIÃO, A.M., MACEDO, M.P. & RIBEIRO, J.A. (2000). Tonic activation of A<sub>2A</sub> adenosine receptors unmasks, and of A<sub>1</sub> receptors prevents, a facilitatory action of calcitonin gene-related peptide in the rat hippocampus. **Brit. J. Pharmacol.**, **129**, 374-380.
111. HERNANDEZ, J. LAORDEN, M.L., RUIZ, F. and RIBEIRO, J. A. (2000).  $\beta,\gamma$ -Methylene ATP but not  $\alpha,\beta$ -methylene ATP mimics the inhibitory effect of ATP on ventricular automaticity **Pharmacol & Toxicol.**, **86**, 68-70.
110. CUNHA, R.A., BRENDEL, P., ZIMMERMANN, H., & RIBEIRO, J.A. (2000). Immunologically distinct isoforms of ecto-5'-nucleotidase in nerve terminals of different areas of the rat hippocampus **J. Neurochem.** **74**, 334-338.
109. MONTEIRO, E.C. & RIBEIRO, J.A. (2000). Adenosine-dopamine interactions and ventilation mediated through carotid body chemoreceptors. In: **Adv. Exp. Med. Biol.**, **475**, 671-684.
108. COSTENLA, A.R. DE MENDONÇA, A. & RIBEIRO, J. A. (1999). Adenosine modulates synaptic plasticity in hippocampal slices from aged rats. **Brain Res.**, **851**, 228-234.
107. LOPES, L.V., CUNHA, R.A. & RIBEIRO, J. A. (1999). Cross Talk between A1 and A2A adenosine receptors in the hippocampus and cortex of young adult and old rats. **J. Neurophysiol.**, **82**, 3196-3203.
106. LOPES, L.V., CUNHA, R.A. & RIBEIRO, J. A. (1999). ZM 241385, an adenosine A2A receptor antagonist, inhibits hippocampal A1 receptor responses. **Eur J. Pharmacol.**, **383**, 393-395.

105. LOPES, L. V., CUNHA, R.A. & **RIBEIRO, J. A.** (1999). Increase in the number, G-protein coupling and efficiency of facilitatory adenosine A<sub>2A</sub> receptors in the limbic cortex, but not striatum, of aged rats. **J Neurochem.** **73**, 1733-1738.
104. CUNHA, R.A., MALVA, J.O. & **RIBEIRO, J.A.** (1999). Kainate receptors coupled to Gi/Go proteins in the rat hippocampus. **Molec. Pharmacol.** **56**, 429-433.
103. **RIBEIRO, J.A.** (1999). Adenosine A<sub>2A</sub> receptor interactions with receptors for other neurotransmitters and neuromodulators. **Eur. J. Pharmacol.**, **375**, 101-113.
102. CUNHA, R.A., CONSTANTINO, M.D. & **RIBEIRO, J.A.** (1999). G-protein coupling of CGS 21680 binding sites in the rat hippocampus and cortex is different from that of adenosine A<sub>1</sub> and striatal A<sub>2A</sub> receptors. **Naunyn Schmiedberg's Arch. Pharmacol.**, **359**, 295-302.
101. SEBASTIÃO, A.M., CUNHA, R.A., CASCALHEIRA, J.F. & **RIBEIRO, J.A.** (1999). Adenine nucleotides as inhibitors of synaptic transmission: role of localised ectonucleotidases. **Prog. Brain Res.**, **120**, 183-192.
100. CUNHA, R.A. & **RIBEIRO, J.A.** (1999). Facilitation of GABA release by arachidonic acid in rat hippocampal synaptosomes. **Eur. J. Neurosci.**, **11**, 1-4.
99. ALMEIDA, T., CUNHA, R.A. & **RIBEIRO, J.A.** (1999). Facilitation by arachidonic acid of acetylcholine release from the rat hippocampus. **Brain Res.**, 826, 104-111.
98. COSTENLA, A.R., de MENDONÇA, A., SEBASTIÃO, A., M. & **RIBEIRO, J.A.** (1999). An adenosine analogue inhibits NMDA receptor-mediated responses in bipolar cells of the rat retina. **Exp. Eye Res.** **68**, 367-370.
97. CUNHA, J.A., SEBASTIÃO, A.M. & **RIBEIRO, J. A.** (1998). Inhibition by ATP of hippocampal synaptic transmission requires localized extracellular catabolism by ecto-nucleotidases into adenosine and channeling to adenosine A<sub>1</sub> receptors. **J. Neurosci.**, **18**, 1987-1995.
96. CUNHA, R.A., CONSTANTINO, M.D. & **RIBEIRO, J.A.** (1997). ZM241385 is an antagonist of the facilitatory responses produced by the A<sub>2A</sub> adenosine receptor agonists CGS21680 and HENECA in the rat hippocampus. **Br. J. Pharmacol.**, **122**, 1279-1284.
95. GONÇALVES, M.L., CUNHA, R.A. & **RIBEIRO, J. A.** (1997). Adenosine A<sub>2A</sub> receptors facilitate 45Ca<sup>2+</sup> uptake through class A calcium channels in rat hippocampal CA3 but not CA1 synaptosomes. **Neurosci. Letts**, **238**, 73-77.
94. de MENDONÇA, A. & **RIBEIRO, J. A.** (1997). Contribution of metabotropic glutamate receptors to the depression of excitatory postsynaptic potentials during hypoxia. **Neuroreport**, **8**, 3667-3671.
93. LOBO, M.G.B., OLIVEIRA, D. G., SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (1997). On the high affinity of 8-cyclohexylcaffeine for the presynaptic inhibitory adenosine receptor present in rat motor nerve terminals. **Pharmacol. & Toxicol.**, **80**, 295-300.
92. LORENZEN, A., SEBASTIÃO, A.M., SELLINK, A., VOGT, H., SCHWABE, U., **RIBEIRO, J. A.** & IJZERMAN, A.P. (1997). Biological activities of N<sup>6</sup>, C8-disubstituted adenosine derivatives as partial agonists of rat brain adenosine A<sub>1</sub> receptors. **Eur. J. Pharmacol.**, **334**, 299-307.
91. de MENDONÇA, A. & **RIBEIRO, J. A.** (1997). Influence of metabotropic glutamate receptors agonists on the inhibitory effects of adenosine A<sub>1</sub> receptor activation in the rat hippocampus. **Br. J. Pharmacol.**, **121**, 1541-1548.
90. CUNHA, R.A., CONSTANTINO, M.D. & **RIBEIRO, J.A.** (1997). Inhibition of [<sup>3</sup>H]GABA release by kainate receptor activation in rat hippocampal synaptosomes. **Eur. J. Pharmacol.**, **323**, 167-172.
89. de MENDONÇA, A., ALMEIDA, T., BASHIR, Z.I. & **RIBEIRO, J.A.** (1997). Endogenous adenosine attenuates long term depression and depotentiation. **Neuropharmacology**, **62**, 385-390.
88. de MENDONÇA, A. & **RIBEIRO, J.A.** (1997). Adenosine and neuronal plasticity. **Life Sci.**, **60**, 245-251.
87. **RIBEIRO, J.A.**, de MENDONÇA, A. CORREIA-DE-SÁ, P., CUNHA, R. & SEBASTIÃO, A.M. (1996). Purinoceptors and synaptic plasticity. **Drug Develop. Res.**, **39**, 353-360.
86. HERNÁNDEZ, J. & **RIBEIRO, J.A.** (1996). Excitatory actions of adenosine on ventricular automaticity. **Trends in Pharmacol. Sci.**, **17**, 141-144.
85. SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (1996). A<sub>2</sub> receptor mediated excitatory actions of adenosine in the nervous system. **Prog. Neurobiol.**, **48**, 167-189.
84. AFONSO, F., SEBASTIÃO, A.M., PINHO, M.S., FERNANDES, P., **RIBEIRO, J.A.**, MATA, L.R. & GULBENKIAN, S. (1996). Calcitonin gene-related peptide in the hamster seminal vesicle and coagulating gland: An immunohistochemical, autoradiographical and pharmacological study. **Peptides**, **17**, 1189-1195.
83. LUCCHI, R., LATINI, S., de MENDONÇA, A., SEBASTIÃO, A.M. & **RIBEIRO, J.A.** (1996). Adenosine by activating A<sub>1</sub> receptors prevents GABA<sub>A</sub>-mediated actions during hypoxia in the rat hippocampus. **Brain Res.**, **732**, 261-266.
82. CORREIA-DE-SÁ, P., TIMÓTEO, M.A. & **RIBEIRO, J.A.** (1996). Presynaptic A<sub>1</sub>-inhibitory/A<sub>2A</sub>-facilitatory adenosine receptor activation balance depends on motor nerve stimulation paradigm at the rat hemidiaphragm. **J. Neurophysiol.**, **76**, 3910-3919.
81. CUNHA, R.A., VIZI, E.S., **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (1996). Preferential release of ATP and its extracellular catabolism as a source of adenosine upon high but not low frequency stimulation of rat hippocampal slices. **J. Neurochem.**, **67**, 2180-2187.

80. RIBEIRO, J.A., CUNHA, R.A., CORREIA-DE-SÁ, P. & SEBASTIÃO, A.M. (1996). Purinergic regulation of acetylcholine release. **Prog. Brain Res.**, **109**, 231-241.
79. CUNHA, R.A., CORREIA-DE-SÁ, P., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1996). Preferential activation of excitatory adenosine receptors at rat hippocampal and neuromuscular synapses by adenosine formed from released adenine nucleotides. **Br. J. Pharmacol.**, **119**, 253-260.
78. GONÇALVES, M.L. & RIBEIRO, J.A. (1996). Adenosine A<sub>2</sub>-receptors activation facilitate <sup>45</sup>Ca<sup>2+</sup> uptake by rat brain synaptosomes. **Eur. J. Pharmacol.**, **310**, 257-261.
77. CORREIA-DE-SÁ, P. & RIBEIRO, J.A. (1996). Adenosine uptake and deamination regulate A<sub>2a</sub>-receptor facilitation of evoked [<sup>3</sup>H]-ACh release from the rat motor nerve terminals. **Neuroscience**, **73**, 85-92.
76. HERNANDEZ, J. & RIBEIRO, J.A. (1995). Adenosine and ventricular automaticity. **Life Sci.**, **57**, 1393-1399.
75. CUNHA, R.A., CONSTANTINO, M.D., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1995). Modification of A<sub>1</sub> and A<sub>2a</sub> receptor binding in aged striatum, hippocampus and cortex of the rat. **NeuroReport**, **6**, 1583-1588.
74. CUNHA, R.A., JOHANSSON, B., FREDHOLM, B.B., RIBEIRO, J.A. & SEBASTIÃO, A.M. (1995). Adenosine A<sub>2a</sub> receptors stimulate acetylcholine release from nerve terminals of the rat hippocampus. **Neurosci. Letts**, **196**, 41-44.
73. de MENDONÇA, A., SEBASTIÃO, A.M. and RIBEIRO, J.A. (1995). Inhibition of NMDA receptor-mediated currents in isolated rat hippocampal neurons by adenosine A<sub>1</sub> receptor activation. **NeuroReport**, **6**, 1097-1100.
72. OLIVEIRA, J.C., CONSTANTINO, M.D., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1995). Ascorbate/Fe<sup>3+</sup>-induced peroxidation and inhibition of the binding of A<sub>1</sub> adenosine receptor ligands in rat brain membranes. **Neurochem. Int.**, **26**, 263-268.
71. MALVA, J.O., AMBRÓSIO, A.F., CUNHA, R.A., RIBEIRO, J.A., CARVALHO, A.P. & CARVALHO, C.M. (1995). A functionally active presynaptic high-affinity kainate receptor in the rat hippocampal CA3 subregion. **Neurosci. Letts**, **185**, 83-86.
70. RIBEIRO, J.A. (1995). Purinergic inhibition of neurotransmitter release in the central nervous system. **Pharmacol. & Toxicol.**, **77**, 299-305.
69. HERNANDEZ, J., PINTO, F. & RIBEIRO, J.A. (1994). Involvement of  $\alpha$ -adrenoceptors in the excitatory effect of the A<sub>2</sub> adenosine receptor agonist, 5'-N-ethylcarboxamide adenosine (NECA) on cardiac automaticity in the isolated right ventricles of the rat. **Naunyn-Schmiedeberg's Arch. Pharmacol.**, **350**, 632-637.
68. CORREIA-DE-SÁ, P. & RIBEIRO, J.A. (1994). Tonic adenosine A<sub>2A</sub> receptors activation modulates nicotinic autoreceptors function at the rat neuromuscular junction. **Eur. J. Pharmacol.**, **271**, 349-355.
67. CANHÃO, P., de MENDONÇA, A. & RIBEIRO, J.A. (1994). 1,3-dipropyl-8-cyclopentylxanthine attenuates the NMDA response to hypoxia in the rat hippocampus. **Brain Res.**, **661**, 265-273.
66. CORREIA-DE-SÁ, P. & RIBEIRO, J.A. (1994). Evidence that the presynaptic A<sub>2a</sub>-adenosine receptor of the rat motor nerve endings is positively coupled to adenylate cyclase. **Naunyn-Schmiedeberg's Arch. Pharmacol.**, **350**, 514-522.
65. de MENDONÇA, A. & RIBEIRO, J.A. (1994). Endogenous adenosine modulates long-term potentiation in the hippocampus. **Neuroscience**, **62**, 385-390.
64. CUNHA, R.A., JOHANSSON, B., van der PLOEG, I., SEBASTIÃO, A.M., RIBEIRO, J.A. & FREDHOLM, B.B. (1994). Evidence for functionally important adenosine A<sub>2a</sub> receptors in the rat hippocampus. **Brain Res.**, **649**, 208-216.
63. HERNANDEZ, J., PINTO, F., FIGUEIRA, M.A. & RIBEIRO, J.A. (1994). Evidence for a cooperation between A<sub>2</sub> receptors and  $\beta_1$ -adrenoceptors on cardiac automaticity in the isolated right ventricle of the rat. **Br. J. Pharmacol.**, **111**, 1316-1320.
62. CUNHA, R.A., MILUSHEVA, E., VIZI, E.S., RIBEIRO, J.A. & SEBASTIÃO, A.M. (1994). Excitatory and inhibitory effects of A<sub>1</sub> and A<sub>2A</sub> adenosine receptor activation on the electrically-evoked [<sup>3</sup>H]-acetylcholine release from different areas of the rat hippocampus. **J. Neurochem.**, **63**, 207-214.
61. PINHO, M.S., SEBASTIÃO, A.M., RODRIGUES, G., BARROSO, C.P., RIBEIRO, J.A., MATA, L.R. & GULBENKIAN, S. (1994). Vasoactive intestinal peptide (VIP) in the hamster seminal vesicle: distribution, binding sites and possible functions. **Neuroscience**, **59**, 1083-1091.
60. CORREIA-DE-SÁ, P. & RIBEIRO, J.A. (1994). Tonic A<sub>2a</sub>-adenosine receptor activation potentiates CGRP facilitation of [<sup>3</sup>H]acetylcholine release from rat motor nerve endings. **Br. J. Pharmacol.**, **111**, 582-588.
59. CUNHA, R.A., RIBEIRO, J.A. & SEBASTIÃO, A.M. (1994). Purinergic modulation of the evoked release of [<sup>3</sup>H]acetylcholine from the hippocampus and cerebral cortex of the rat: role of the ecto-nucleotidases. **Eur. J. Neurosci.**, **6**, 33-42.
58. DE MENDONÇA, A. & RIBEIRO, J.A. (1993). Adenosine inhibits the NMDA receptor-mediated excitatory post-synaptic potential in the hippocampus. **Brain Res.**, **606**, 351-356.
57. CORREIA-DE-SÁ, P. & RIBEIRO, J.A. (1993). Facilitation of [<sup>3</sup>H]-ACh release by forskolin depends on A<sub>2</sub> adenosine receptor activation. **Neurosci. Letts**, **151**, 21-24.
56. OLIVEIRA, J.C., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1993). On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes. **Br. J. Pharmacol.**, **109**, 518-523.

55. CUNHA, R.A., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1992). Ecto-5'- nucleotidase is associated with cholinergic nerve terminals in the hippocampus but not in the cerebral cortex of the rat. **J. Neurochem.**, **59**, 657-666.
54. SEBASTIÃO, A.M. & RIBEIRO, J.A. (1992). Evidence for the presence of excitatory A<sub>2</sub> adenosine receptors in the rat hippocampus. **Neurosci. Letts**, **138**, 41-44.
53. LOBO, M.G.B. & RIBEIRO, J.A. (1992). Effects of forskolin, dibutyryl cyclic AMP, and 5'-N-ethylcarboxamide adenosine on <sup>22</sup>Na uptake by rat brain synaptosomes stimulated by veratridine. **J. Neurochem.**, **58**, 1033-1037.
52. MONTEIRO, E.C. & RIBEIRO, J.A. (1991). Adenosine and the bradycardic response to vagus nerve stimulation. **Eur. J. Pharmacol.**, **204**, 193-202.
51. OLIVEIRA, J.C., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1991). Solubilized rat brain adenosine receptors have two high affinity binding sites for 1,3-dipropyl-8- cyclopentylxanthine. **J. Neurochem.**, **57**, 1165-1171.
50. CORREIA-DE-SÁ, P., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1991). Inhibitory and excitatory effects of adenosine receptor agonists on evoked transmitter release from phrenic nerve endings of the rat. **Br. J. Pharmacol.**, **103**, 1614-1620.
49. RIBEIRO, J.A. & MONTEIRO, E.C. (1991). On the adenosine receptor involved in the excitatory action of adenosine on respiration: antagonist profile. **Nucleosides & Nucleotides**, **10**, 945-953.
48. GONÇALVES, M.L., PINTO, F. & RIBEIRO, J.A. (1991). Effect of adenosine on <sup>45</sup>Ca uptake by rat brain synaptosomes electrically stimulated. **J. Neurochem.**, **56**, 1769-1773.
47. DE MENDONÇA, A. & RIBEIRO, J.A. (1990). 2-Chloroadenosine decreases long-term potentiation in the hippocampal CA<sub>1</sub> area of the rat. **Neurosci.Letts**, **118**, 107-111.
46. SEBASTIÃO, A.M., STONE, T.W. & RIBEIRO, J.A. (1990). On the inhibitory adenosine receptor at the neuromuscular junction and hippocampus of the rat: antagonism by 1,3,8-substituted xanthines. **Br.J.Pharmacol.**, **101**, 453-459.
45. SEBASTIÃO, A.M. & RIBEIRO, J.A. (1990). Interactions between adenosine and phorbol esters or lithium at the frog neuromuscular junction. **Br.J.Pharmacol.**, **100**, 55-62.
44. DELICADO, E.G., RODRIGUES, A., SEN, R.P., SEBASTIÃO, A.M., RIBEIRO, J.A. & MIRAS-PORTUGAL, M.T. (1990). Effect of N- ethylcarboxamidoadenosine (NECA) on adenosine transport in cultured chromaffin cells. **J.Neurochem.**, **54**, 1941-1946.
43. CUNHA, R.A., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1989). Separation of adenosine triphosphate and its degradation products in innervated muscle of the frog by reverse phase high-performance liquid chromatography. **Chromatographia**, **28**, 610-612.
42. MONTEIRO, E.C. & RIBEIRO, J.A. (1989). Inhibition by 1,3- dipropyl-8-(p-sulfophenyl)xanthine of the respiratory stimulation induced by common carotid occlusion in rats. **Life Sci.**, **45**, 939-945.
41. MONTEIRO, E.C. & RIBEIRO, J.A. (1989). Adenosine deaminase and adenosine uptake inhibitors facilitate ventilation in rats. **Naunyn-Schmiedeberg's Arch.Pharmacol.**, **340**, 230-238.
40. DE MENDONÇA, A. & RIBEIRO, J.A. (1989). Diazepam enhances the inhibitory action of adenosine on transmission at the frog neuromuscular junction. **Eur.J.Pharmacol.**, **164**, 347-354.
39. HERNANDEZ, J. LAORDEN, M.L., RUIZ, F. & RIBEIRO, J.A. (1989). Effects of adenosine and its analogues on ventricular automaticity induced by a local injury: role of catecholamines and of cyclic AMP. **Arch.int.Pharmacodyn.**, **297**, 49-59.
38. SEBASTIÃO, A.M. & RIBEIRO, J.A. (1989). 1,3,8- and 1,3,7- substituted xanthines: relative potency as adenosine receptor antagonists at the frog neuromuscular junctions. **Br.J.Pharmacol.**, **96**, 211-219.
37. RUIZ, F., HERNANDEZ, J. & RIBEIRO, J.A. (1988). Theophylline antagonizes the effect of diazepam on ventricular automaticity. **Eur.J.Pharmacol.**, **155**, 205-209.
36. SEBASTIÃO, A.M. & RIBEIRO, J.A. (1988). On the adenosine receptor and adenosine inactivation at the rat diaphragm neuromuscular junction. **Br.J.Pharmacol.**, **94**, 109-120.
35. SIMÕES, A.P., OLIVEIRA, P.C., SEBASTIÃO, A.M. & RIBEIRO, J.A. (1988). N<sup>6</sup>-cyclohexyladenosine inhibits veratridine-stimulated <sup>22</sup>Na uptake by rat brain synaptosomes. **J.Neurochem.**, **50**, 899-903.
34. GONÇALVES, M.L. & RIBEIRO, J.A. (1987). The effects of purines and forskolin on haemolysis. **Fundamental and Clinical Pharmacology**, **1**, 169-178.
33. MONTEIRO, E.C. & RIBEIRO, J.A. (1987). Ventilatory effects of adenosine mediated by carotid body chemoreceptors in the rat. **Naunyn Schmiedeberg's Arch.Pharmacol.**, **335**, 143-148.
32. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1987). On the role, inactivation and origin of endogenous adenosine at the frog neuromuscular junction. **J.Physiol.Lond.**, **384**, 571-585.
31. MCQUEEN, D.S. & RIBEIRO, J.A. (1986). Pharmacological characterization of the receptor involved in the chemoexcitation induced by adenosine. **Br.J.Pharmacol.**, **88**, 615-620.
30. LAORDEN, M.L., HERNANDEZ, J. & RIBEIRO, J.A. (1986). The effects of adenosine, ATP and ADP on ventricular automaticity induced by a local injury in the isolated right ventricle of the rat. **Arch.int.Pharmacodyn.**, **279**, 258-267.
29. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1986). Adenosine receptors and calcium: basis for proposing a third (A<sub>3</sub>) adenosine receptor. **Prog.Neurobiol.**, **26**, 179-209.



28. SEBASTIÃO, A.M. & RIBEIRO, J.A. (1985). Enhancement of transmission at the frog neuromuscular junction by adenosine deaminase: evidence for an inhibitory role of endogenous adenosine on neuromuscular transmission. **Neurosci.Letts.**, **62**, 267-270.
  27. FIGUEIRA, M.A. & RIBEIRO, J.A. (1985). Separation by thin layer chromatography of adenosine and its derivatives using silica gel. **J.Chromatography**, **325**, 317-322.
  26. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1985). Inhibitory effects of forskolin and papaverine on nerve conduction partially blocked by tetrodotoxin in the frog sciatic nerve. **Br.J.Pharmacol.**, **85**, 309-313.
  25. RIBEIRO, J.A. & LIMA, M.S. (1985). The hypotensive effect of intracarotid injections of adenosine triphosphate depends on its hydrolysis to adenosine. **Pharmacol.Res.Com.**, **17**, 255-260.
  24. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1985). On the type of receptor involved in the inhibitory action of adenosine at the neuromuscular junction. **Br.J.Pharmacol.**, **84**, 911-918.
  23. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1984). Enhancement of tetrodotoxin-induced axonal blockade by adenosine, adenosine analogues, dibutyryl cyclic AMP and methylxanthines in the frog sciatic nerve. **Br.J.Pharmacol.**, **83**, 485-492.
  22. RIBEIRO, J.A. & SA-ALMEIDA, A.M. (1984). Excitatory effects of dibutyryl cyclic AMP, noradrenaline and theophylline on <sup>45</sup>Ca uptake by synaptosomes from rat brain. **Arch.int.Pharmacodyn.**, **270**, 215-321.
  21. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1984). Antagonism of tetrodotoxin- and procaine-induced axonal blockade by adenine nucleotides in the frog sciatic nerve. **Br.J.Pharmacol.**, **81**, 277-282.
  20. RIBEIRO, J.A. (1984). A ação excitatória do ATP na actividade quimio receptora do corpo carotídeo depende da sua hidrólise prévia em adenosina. **J. Fisiol.Biof.**, **3**, 35- 44.
  19. McQUEEN, D.S. & RIBEIRO, J.A. (1983). On the specificity and type of receptor involved in carotid body chemoreceptor activation by adenosine. **Br.J.Pharmacol.**, **80**, 347-354.
  18. McQUEEN, D.S. & RIBEIRO, J.A. (1983). Effects of ouabain on carotid body chemoreceptor activity in the cat. **J.Physiol.Lond.**, **335**, 221-235.
  17. RIBEIRO, J.A. (1982). The decrease on neuromuscular transmission by adenosine depends on previous neuromuscular depression. **Arch.int.Pharmacodyn.**, **255**, 59-67.
  16. McQUEEN, D.S. & RIBEIRO, J.A. (1981). Effect of adenosine on carotid body chemoreceptor activity in the cat. **Br.J.Pharmacol.**, **74**, 129-136.
  15. RIBEIRO, J.A. (1981). The modulation of transmission by purinergic substances at the neuromuscular junction. **Ann.N.Y.Acad.Sci.**, **377**, 874-876.
  14. RIBEIRO, J.A., DOMINGUEZ, M.L., SA-ALMEIDA, A.M. & GONÇALVES, M.J. (1981). The effects of imidazole on neuromuscular transmission and on synaptosomal calcium uptake in the rat. **Arch.int.Pharmacodyn.**, **251**, 260-284.
  13. McQUEEN, D.S. & RIBEIRO, J.A. (1981). Effects of β-endorphin, vasoactive intestinal polypeptide and cholecystokinin octapeptide on cat carotid body chemoreceptor activity. **Quarterly J.exp.Physiol.**, **66**, 273-284.
  12. McQUEEN, D.S. & RIBEIRO, J.A. (1980). Inhibitory actions of methionine-enkephalin and morphine on the cat carotid body chemoreceptors. **Br.J.Pharmacol.**, **71**, 297-305.
  11. PERES-GOMES, F. & RIBEIRO, J.A. (1979). Modification of the cardiotoxic effects of ouabain by acepromazine, tetrodotoxin and magnesium sulphate. **Pharmacology**, **18**, 80-90.
  10. RIBEIRO, J.A. (1979). Purinergic modulation of transmitter release. **J.Theor.Biol.**, **80**, 259-270.
  9. RIBEIRO, J.A., SA-ALMEIDA, A.M. & NAMORADO, J.M. (1979). Adenosine and adenosine triphosphate decrease <sup>45</sup>Ca uptake by synaptosomes stimulated by potassium. **Biochem.Pharmacol.**, **28**, 1297-1300.
  8. RIBEIRO, J.A., DOMINGUEZ, M.L. & GONÇALVES, M.J. (1979). Purine effects at the neuromuscular junction and their modification by theophylline, imidazole and verapamil. **Arch.int.Pharmacodyn.**, **238**, 206-219.
  7. RIBEIRO, J.A. (1978). ATP, related nucleotides and adenosine on neurotransmission. **Life Sci.**, **22**, 1373-1380.
  6. RIBEIRO, J.A. & DOMINGUEZ, M.L. (1978). Mechanisms of depression of neuromuscular transmission by ATP and adenosine. **J.Physiol.Paris**, **74**, 491-496.
  5. RIBEIRO, J.A. & PERES-GOMES, F. (1977). Acetylcholine release in cerebrospinal fluid by ouabain. **Neuropharmacology**, **16**, 695-698.
  4. RIBEIRO, J.A. (1976). Effects of ouabain on arterial pressure and its modification by tetrodotoxin. **J.Pharmac.Pharmacol.**, **28**, 847-848.
  3. RIBEIRO, J.A. & WALKER, J. (1975). The effects of adenosine triphosphate and adenosine diphosphate on transmission at the rat and frog neuromuscular junctions. **Br.J.Pharmacol.**, **54**, 213-218.
  2. RIBEIRO, J.A. & WALKER, J. (1973). Action of adenosine triphosphate on endplate potentials recorded from muscle fibres of the rat-diaphragm and frog sartorius. **Br.J.Pharmacol.**, **49**, 724-725.
  1. RIBEIRO, J.A. (1973). Acções cardiovasculares da ubaína mediadas pelo sistema nervoso central. **J.Soc. Ciências Méd, Lisboa**, **137**, 319-344.
- Letters to the editor (refereed):**
3. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1994). Further evidence for adenosine A<sub>3</sub> receptors. **Trends in Pharmacol.Sci.**, **15**, 13.

2. RIBEIRO, J.A. & SEBASTIÃO, A.M. (1988). Is inhibition of neurotransmitter release mediated by A<sub>3</sub> receptors? Subtypes of adenosine receptors. **Trends in Pharmacol.Sci.**, **9**, 279-280.
1. RIBEIRO, J.A. (1977). Potentiation of post-junctional cholinergic sensitivity of rat diaphragm muscle by high- energy phosphate adenine nucleotides. **J. Membrane Biol.**, **33**, 401-402.

**Chapters in books:**

33. Sebastião A M Cristóvão-Ferreira S and **Ribeiro J A** (2013). Downstream Pathways of Adenosine A key ,link between Metabolism and Brain Activity, D Masino and D Boison (eds) , DOI 10.1007/978-1-4614-3903-5\_7\_1, Springer Science+Business Media New York. Adenosine
32. **RIBEIRO, J.A.** (2008). Como a Ubaína uniu o Grupo do Professor Fernando Peres Gomes no Instituto Gulbenkian De Ciencia: Um tributo à Professora Tice Anastácio de Macedo. Pp 75-86. Coimbra
- 31 **RIBEIRO, J.A.** (2004). The Role of Adenosine as a Mediator of Cerebral Circulationl. In: **Circulation**, ed., M.V. Alves and A. Barbosa, pp 130-137. Museu de Medicina, Faculdade de Medicina de Lisboa.
30. **RIBEIRO, A.** (2004). General aspects of neuropharmacology in relation to brain repair following trauma. In: **Brain Damage and Repair**, Ed.T. Herdegen and J.M. Delgado-Garcia, pp 423-437. Kluwer Academic Publishers, The Netherlands.
29. de MENDONÇA, A & **RIBEIRO, J.A.** (2001). Adenosine and neuroprotection. **Arq. Port. Oftalmol.**
28. **RIBEIRO, J.A.** (2000). Psicofarmacologia na disfunção sexual:introdução. In: **Sexualidade**, pp. 129-131, Edit. A.Barbosa e J. Gomes-Pedro, Dep. Educação Médica, FML, Lisboa
27. SEBASTIÃO, A.M. e **RIBEIRO, J.A.** (2001). Sistema Purinérgico In: **Terapêutica Medicamentosa e suas Bases Farmacológicas**, ed., W. Osswald and S. Guimarães, pp 440-451. Porto Editora, Porto.
26. **RIBEIRO, J.A.** (2001). Estimulantes do Sistema Nervoso Central. Antagonistas dos receptores da adenosina: Alquilxantinas In: **Terapêutica Medicamentosa e suas Bases Farmacológicas**, ed., W. Osswald and S. Guimarães, pp 139-146, Porto Editora, Porto.
25. LOPES, L.V., CUNHA, R. A. & RIBEIRO, J.A. (1999) Interaction between adenosine A1 and A2A receptors in the control of neurotransmitter release. In: **Recent Research Developments in Neurochemistry, vol 2, part II**, ed. S.J. Pandalai, Research Signpost, Trivandrum, 463-472.
24. SEBASTIÃO, A.M., LUCCHI, R., LATINI, S., DE MENDONÇA, A. & **RIBEIRO, J.A.** (1997). Functional negative interaction between adenosine (A1) and GABA (GABA A) during hypoxia in the rat hippocampus. In: **The Role of Adenosine in the Nervous System**, ed. Y. Okada, pp.177-184, Elsevier Science B.V., Amsterdam
23. DE MENDONÇA, A. & **RIBEIRO, J.A.** (1997). Endogenous adenosine attenuates long-term depression in the hippocampus. In: **The Role of Adenosine in the Nervous System**, ed. Y. Okada, pp.121-125, Elsevier Science B.V., Amsterdam.
22. CORREIA-DE-SÁ, P., TIMÓTEO, M.A. & **RIBEIRO, J.A.** (1997). Adenosine plays a key role on neuromuscular transmission to adjust the modulatory pattern (cholinergic vs peptidergic) to the conditions of motor nerve stimulation. In: **The Role of Adenosine in the Nervous System**, ed. Y. Okada, pp. 79-87, Elsevier Science B.V., Amsterdam.
21. **RIBEIRO, J.A.**, CORREIA-DE-SÁ, P. CUNHA, R.A. & SEBASTIÃO, A.M. (1997). Adenosine and neurotransmitter release: inhibition and facilitation. In: **The Role of Adenosine in the Nervous System**, ed. Y. Okada, pp. 13-24, Elsevier Science B.V., Amsterdam.
20. **RIBEIRO, J.A.** (1996). Novas Tendências da Farmacologia. In: **Livro do Centenário do Serviço de Oftalmologia do Hospital de Santo António, Porto**
19. LACKOVIC & **RIBEIRO, J.A.** (1996). CNS regulation of the autonomic nervous system. In report on **Neurosciences Research in Europe**.
18. WHITE, T.D., **RIBEIRO, J.A.**, EDWARDS, F.A., FREDHOLM, B.B. & PHILLIS, J.W. (1995). Role of purines in the central nervous system. In: **Pharmacological Sciences: Perspectives for Research and Therapy in the late 1990s**, ed. A.C. Cuello and B. Collier, pp.295-302, Birkhauser Verlag, Basel.
17. SEBASTIÃO, A.M., CUNHA, R.A., CORREIA-DE-SÁ, P., de MENDONÇA, A. & **RIBEIRO, J.A.** (1995). Role of A<sub>2a</sub> receptors in the hippocampus and motor nerve endings. In: **Adenosine and Adenine Nucleotides: from molecular Biology to Integrative Physiology**, ed. L. Belardinelli and A. Pelleg, pp.251-261,Kluwer Academic Publishers , Boston.
16. **RIBEIRO, J.A.** (1994). Purinas In: **Terapêutica Medicamentosa e suas Bases Farmacológicas**, ed. J. Garrett, W. Osswald and S. Guimarães, vol. I, pp. 452-460, Porto Editora, Porto.
15. **RIBEIRO, J.A.** (1994). Alquilxantinas. In: **Terapêutica Medicamentosa e suas Bases Farmacológicas**, ed. J. Garrett, W. Osswald and S. Guimarães, vol. I, pp. 156-164, Porto Editora, Porto.
14. **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (1991). Purinergic modulation of neurotransmitter release in the peripheral and central nervous systems. In: **Presynaptic Regulation of Neurotransmitter Release: A Handbook**, ed. J. Feigenbaum and M. Hanani, vol. I, pp.451-495, Freund Publishing House, Ltd, London.
13. **RIBEIRO, J.A.** (1991). Adenosine and the central nervous system control of autonomic function. In: **Adenosine in the Nervous system**, ed. T.W. Stone, Chapter 11, pp. 229-246, Academic Press, London.
12. **RIBEIRO, J.A.** (1991). Purinergic regulation of transmitter release. In: **Adenosine and Adenine nucleotides as regulators of Cellular Function**, ed. J.W. Phillis, Chapter 12, pp.155- 167, CRC Press inc., New York.

11. **RIBEIRO, J.A.**, CORREIA-DE-SÁ, P., CUNHA, R.A., OLIVEIRA, J.C. & SEBASTIÃO, A.M. (1991). Role of adenosine at the neuromuscular junction: effects mediated by presynaptic inhibitory and excitatory receptors. In: **Role of Adenosine and Adenine Nucleotides in the Biological System**, ed. S. Imai and M. Nakazawa, pp.691-702, Elsevier Sci. Publ., Amsterdam.
10. MONTEIRO, E.C. & **RIBEIRO, J.A.** (1990). Respiratory responses to common carotid occlusion in the rat: Evidence for involvement of adenosine. In **Chemoreceptors and chemoreceptor reflexes**, ed. H. Acker, A. Trzebski and R.G. O'Regan, pp. 49- 56, Plenum Press, New York.
9. MONTEIRO, E.C. & **RIBEIRO, J.A.** (1990). Endogenous adenosine tonically excites respiration mediated by carotid body chemoreceptors in the rat. In: **Arterial Chemoreception**, ed. C. Eyzaguirre, S.J. Fidone, R.S. Fitzgerald, S. Lahiri and D.M. McDonald, pp. 174-180, Springer-Verlag, New York.
8. **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (1990). Adenosine receptors mediating inhibition of peripheral and central neurons. In: **Purines in Cellular Signalling: Targets for New Drugs**, ed. K.A. Jacobson, J.W. Daly and V. Manganiello, pp.166-173, Springer Verlag, New York.
7. **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (1989). Characterization of the adenosine receptor that mediates inhibition of transmitter release at the frog neuromuscular junction. In: **Adenosine Receptors in the Nervous System**, ed. J.A. Ribeiro, pp. 69-77, Taylor & Francis, London.
6. **RIBEIRO, J.A.**, MONTEIRO, E.C. & McQUEEN, D.S. (1988). The actions of adenosine on respiration. In: **Adenosine and Adenine Nucleotides. Physiology and Pharmacology**, ed. D.M. Paton, pp.225-232, Taylor & Francis, London.
5. **RIBEIRO, J.A.** & SEBASTIÃO, A.M. (1987). Adenosine, cyclic AMP and nerve conduction. In: **Topics and Perspectives in Adenosine Research**, eds. E. Gerlach and B.F. Becker, pp. 559- 573, Springer-Verlag, Berlin.
4. **RIBEIRO, J.A.** & McQUEEN, D.S. (1987). Chemoexcitation evoked by adenosine: pharmacological characterization of the receptor. In: **Chemoreceptors in Respiratory Control**, eds J.A. Ribeiro and D.J. Pallot, pp. 305-313, Croom Helm, London.
3. MONTEIRO, E.C. & **RIBEIRO, J.A.** (1987). Adenosine modulation of respiration mediated by carotid body chemoreceptors. In: **Chemoreceptors in Respiratory Control**, eds J.A. Ribeiro and D.J. Pallot, pp. 314-321, Croom Helm, London.
2. **RIBEIRO, J.A.** & McQUEEN, D.S. (1984). Effects of purines on carotid body chemoreceptors. In: **The peripheral chemoreceptors**, ed. D.J. Pallot, pp.383-390, Croom Helm, London.
1. **RIBEIRO, J.A.** & McQUEEN, D.S. (1983). On the neuromuscular depression and carotid body chemoreceptor activation caused by adenosine. In. **Physiology and Pharmacology of Adenosine Derivatives**, eds J.W. Daly, Y. Kuroda, J.W. Phillis, H. Shimizu & M. Ui., pp. 179-188. Raven Press, New York.

#### Edition of books:

2. **Adenosine Receptors in the Nervous System**, ed. **J.A. Ribeiro**, Taylor & Francis, London, 1989.
1. **Chemoreceptors in Respiratory Control**, ed. **J.A. Ribeiro** and D.J. Pallot, Croom Helm, London, 1987.

#### Other papers:

6. **RIBEIRO, J.A.** (2006). Neuroética, a emergência de uma nova disciplina em Neurociências. **e.Ciência (on line)**.
- 5 **RIBEIRO, J.A.** (1991). Biological basis of the hemodynamic actions of adenosine. **Rev. Port. Hemor.**, **5**, 189-193.
- 4 **RIBEIRO, J.A.** (1989). Adenosine receptors; classification and properties. **Revista do Hospital S. Paulo**, **1**, 5-6.
- 3 **RIBEIRO, J.A.** (1989). Mecanismos de acção das alquilxantinas. **Arq. Inst. Farmacol. Ter. Exp., Coimbra**, **25**, 255-282.
- 2 **RIBEIRO, J.A.** (1986). Neurotransmissores putativos purinérgicos e peptidérgicos do sistema nervoso entérico. **Rev. Gastroenterol.**, **3**, 273-283.
- 1 **RIBEIRO, J.A.** (1984). On a new class of putative neurotransmitters in the carotid body. **Arq. Inst. Farmacol. Ter. Exp., Coimbra**, **22**, 17-70.

Abstracts published related to communications presented at national and international meetings (journals and books of proceedings) > 500

#### REFEREE

1988-2013 Scientific Consultant and member of several scientific and organizing committees of international meetings held in U.S.A., Japan and Europe.

#### -Scientific journals, grants, and promotions

Promotion to a Senior position at the University of Cambridge  
 Promotion to Associate Professor of Yale University School of Medicine  
 Promotion to a Senior Professor of The Northwestern University of Chicago  
 Promotion to Senior Scholar of a Professor of the Wayne State University of Detroit, USA.  
 Promotion to Senior Scientist of National Institute of Health (USA).  
 Referee for the Steacie Prize, Steacie Foundation and National Research Council of Canada.  
 Wellcome Trust Grants, U.K.  
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 NATO Fellowships and Grant Applications  
 External examiner of Ph. D. thesis at the University of Murcia, Madrid and Melbourne

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BIOMED II (evaluation)

HFSO reviewer (grants)

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#### **MEMBERSHIP OF SCIENTIFIC SOCIETIES AND OFFICES HELD**

1997/99 - President of the Portuguese Society for Neuroscience

1991/94 - President of the Portuguese Pharmacological Society

1989/91 - Vice-President of the Portuguese Pharmacological Society

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International Society for Neurochemistry

European Society for Neurochemistry

European Neuroscience Association

International Society for Arterial Chemoreception (ISAC)

Society for Experimental Biology

Portuguese Pharmacological Society

Portuguese Society for Neurochemistry

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