

A. JOSÉ LANÇA

University Degrees

M.D. - Faculty of Medicine, University of Coimbra, Coimbra, Portugal (1977).

Ph.D. – Neurosciences, with highest distinction (*summa cum laude*) (1991).
Faculty of Medicine, University of Coimbra, Portugal/University of Toronto, Canada

Citizenship: Canadian

Written and Spoken Languages: English, Portuguese, French and Spanish.

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Selected Invited Lectures and Seminars

- Lança, A.J. Herbal Medications - Relevance to Dental Practice. Continuing Education, Faculty of Dentistry, University of Toronto, Toronto, Canada (October, 2008).
- Lança, A.J. Cellular and Molecular Mechanisms of Drug Addiction. Faculty of Chemical and Pharmaceutical Sciences, University of Chile, Santiago, Chile (August, 2004).
- Lança, A.J. Advanced Topics in Neuropharmacology. A series of Lectures, Discussion Groups in the Graduate Course “Molecular and Applied Pharmacology” - PhD Program in Pharmacology, Faculty of Chemical and Pharmaceutical Sciences, University of Chile, Santiago, Chile (July 23 to August 3, 2004).
- Lança, A.J. Nicotine Induction of fos expression in the PMT. Mechanisms and possible implications on nicotine dependence. 49th National Congress of Physiological Sciences, Symposium on: Nicotine from Cell to Clinical Practice. Monterrey, Mexico (August 26-30, 2001).

- Lança, A.J. Cell transplantation and pharmacological approaches to the dopaminergic modulation of alcohol intake. International Conference on Drugs of Abuse. Madeira, Portugal (April 29 - May 3, 1995).
- Wu, P.H., Lança, A.J*. and Kalant, H. Vasopressinergic and serotonergic regulation of tolerance to alcohol: neuroanatomical and molecular studies. International Conference on Drugs of Abuse. Madeira, Portugal (April 29 - May 3, 1995).
- Lança, A.J. The dopaminergic system and regulation of alcohol intake. Research Society on Alcoholism. San Antonio, Texas, USA (June 19-24, 1993).
- Lança, A.J. Distribution of mu-opiate receptor binding in rat cerebral cortex. 7th International Meeting of the International Society for Developmental Neuroscience – Symposium on Opiate System Pharmacology. Jerusalem, Israel (June 19-24, 1989).

Selected Publications

- **Selected Book Chapters**

1. A.J. Lança. Autonomic Nervous System Neurotransmitters. In: Kalant, H., Grant, D., and Mitchell, J.A. eds. Principles of Medical Pharmacology, 7th edition, Chapter 11, Elsevier Canada: 2007, 107-120.
2. A.J. Lança. Adrenergic Agonists, Direct and Indirect. In: Kalant, H., Grant, D., and Mitchell, J.A. eds. Principles of Medical Pharmacology, 7th edition, Chapter 13, Elsevier Canada: 2007, 121-136.
3. A.J. Lança. Adrenergic Antagonists, Direct and Indirect. In: Kalant, H., Grant, D., and Mitchell, J.A. eds. Principles of Medical Pharmacology, 7th edition, Chapter 14, Elsevier Canada: 2007, 137-155.
4. A.J. Lança. Functional and Neurochemical Organization of the Central Nervous System. In: Kalant, H., Grant, D., and Mitchell, J.A. eds. Principles of Medical Pharmacology, 7th edition, Chapter 16, Elsevier Canada, 2007, 187-210.
5. A.J. Lança. Drugs Modifying Movement Control. In: Kalant, H., Grant, D., and Mitchell, J.A. eds. Principles of Medical Pharmacology, 7th edition, Chapter 17, Elsevier Canada, 2007, 211-222.
6. Lança, A.J. Functional organization of the central nervous system. In: Kalant, H. and Roschlau, W.H.E. eds. Principles of Medical Pharmacology, 6th ed., Chapter 20, New York, Oxford University Press: 1998, 217-240.

- **Selected Peer Reviewed Publications**

1. Lança, A. J. Herbal Medications: An Evidence-Based Review. CME Resource, Sacramento CA, USA: (http://www.netce.com/425/Course_9838.pdf) 2007, 1-48.
2. Lee, S.P., So, C.H., Rashid, A.J., Varghese, G., Cheng, R., Lança, A.J., O'Dowd, B.F. and George, S.R.
Dopamine D1 and D2 Receptor co-activation generates a novel phospholipase C-mediated calcium signal.
Journal of Biological Chemistry (2004) 279/34, 35671-35678.
3. Lança, A.J., Sanelli, T. R., and Corrigan, W.A.
Nicotine-induced Fos expression in the pedunculo-pontine mesencephalic tegmentum in the rat.
Neuropharmacology (2000) 39, 2808-2817.
4. Lança, A.J., Adamson, K.L., Coen, M.K., Chow, B.L.C. and Corrigan, W.A.
The pedunculo-pontine tegmental nucleus and the role of cholinergic neurons in nicotine self-administration in the rat: A correlative neuroanatomical and behavioral study.
Neuroscience (2000) 96, 735-742.
5. Lança, A.J., Wu, P.H., Jung, B., Liu, J.-F., Ng, V. and Kalant, H.
Differential increase in Fos immunoreactivity in hypothalamic and septal nuclei by arginine-8-vasopressin and desglycinamide-9-arginine-8-vasopressin.
Neuroscience (1999) 91, 1331-1341.
6. Wu, P.H., Liu, J.F., Wu, W.L., Lança, A.J. and Kalant, H.
Development of alcohol tolerance in the rat after a single exposure to combined treatment with arginine-8-vasopressin and ethanol.
Journal of Pharmacology and Experimental Therapeutics (1996) 276, 1283-1291.
7. Wu, P.H., Lança, A.J., Liu, J.-F., Man, C.-F. and Kalant, H.
Peripheral injection of arginine-8-vasopressin increases Fos in specific brain areas.
European Journal of Pharmacology (1995) 281, 263-269.
8. Lança, A.J.
Reduction of voluntary alcohol intake in the rat by modulation of the dopaminergic mesolimbic system: Transplantation of ventral mesencephalic cell suspensions.
Neuroscience (1994) 58, 359-369.
9. Wu, P.H., Liu, J.F., Lança, A.J. and Kalant, H.
Selective involvement of central 5-HT₂ receptors in the maintenance of tolerance to ethanol by arginine-8-vasopressin.

- Journal of Pharmacology and Experimental Therapeutics (1994) 270, 802-808.
10. Niemella, O., Parkkila, S., Yla-Herttuala, S., Halsted, C., Witztum, J.L., Lança, A.J., Israel, Y.
Covalent protein adducts in the liver as a result of ethanol metabolism and lipid peroxidation.
Laboratory Investigation (1994) 70, 537-546.
 11. Lança, A.J., Grupp, L.A. and Y. Israel, Y.
Reduction of voluntary alcohol consumption in the rat by transplantation of hypothalamic grafts.
Brain Research (1993) 632, 287-295.
 12. Israel, Y., Speisky, H., Lança, A.J., Iwamura, S., Irai, M. and Varghese, G.
Metabolism of hepatic glutathione and its relevance in alcohol induced liver damage.
in: Cellular and Molecular Aspects of Cirrhosis. Eds. B. Clément and A. Guillouzo. Colloque INSERM/John Libbey Eurotext Ltd., vol.216, pp.25-37, 1992.
 13. Lança, A.J. and Y. Israel, Y.
Histochemical demonstration of sinusoidal gamma-glutamyltransferase activity by substrate protection fixation: Comparative studies in rat and guinea pig liver.
Hepatology (1991) 14, 857-863.
 14. Lança, A.J.
The brain renin-angiotensin system. Review and personal contribution.
University of Coimbra, 1991.
 15. Lança, A.J.
Ontogenetic development of the neostriatum. An experimental model of morphofunctional compartmentation of the telencephalon.
Doctoral Dissertation. University of Coimbra, Coimbra, Portugal, 1991.
 16. Lança, A.J., Boyd, S., Kolb, B.E. and van der Kooy, D.
The development of a patchy organization in the rat striatum.
Developmental Brain Research (1986) 27, 1-10
 17. Lança, A.J. and van der Kooy, D.
A serotonin-containing pathway from the area postrema to the parabrachial nucleus in the rat.
Neuroscience (1985) 14, 1117-1126

Membership in Scientific Societies

- Society for Neuroscience (USA)
- Canadian Society of Pharmacology and Therapeutics
- European Neuroscience Association
- International Brain Research Organization