

Meet Our Editorial Board Member

Prof. Ricardo Jorge Dinis-Oliveira

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Ricardo Jorge Dinis-Oliveira Graduated in Pharmaceutical Sciences in 2003 from the Faculty of Pharmacy of the University of Porto. He obtained the PhD in Toxicology, by the same institution, in 2007.

By Rector Dispatch, he was awarded the European PhD in 2008 and since then he develops scientific and academic activity in the areas of Toxicology and Pharmacology of Psychoactive Substances, Pesticides and Medicines, in their preclinical, clinical and forensic aspects.

He has been particularly interested in: 1) understanding the metabolism and metabolomics of xenobiotics, namely opioids as and their illicit use; 2) developing antidotes against xenobiotic exposure; 3) understanding of the toxicological mechanisms of paraquat-induced lung toxicity; 4) studying the relevance of signs in the forensic and clinical diagnosis of xenobiotic exposure; 5) studying alternative and predictive biomarkers of organ injury; 6) studying the pharmacogenomics and pharmacogenetics and their applications and challenges aiming to explain the variability of dose response; 7) studying the signaling mechanisms leading to apoptosis and necrosis; 8) *in vitro* and *in vivo* studies related to the potential of using new inducers of *de novo* synthesis of P-glycoprotein in toxicology; 9) Forensic and Clinical Toxicology; 10) Food Toxicology; 11) Legal Medicine and other Forensic Sciences namely in developing mathematic models to calculate the *post mortem* interval; 12) studying the progress of several diseases and the undergoing pathophysiological mechanisms; 13) performing forensic expertise reports related to intoxications and to publish relevant clinical and forensic aspects; 14) developing analytical methods for screening and confirmation of intoxications, namely by using alternative samples such as hair; 15) studying target organs of toxicity; 16) studying novel drugs under development; 17) making use of the importance of peer review in teaching/learning for forensic and clinical toxicology as new pedagogic opportunities; and 18) developing models to increase the reproducibility of biomedical research by auditing medical records reutilization.



Ricardo Jorge Dinis-Oliveira

He holds the COHiTEC 2007 program organized by the Porto Business School in collaboration with North Carolina State University and holds the Entrepreneurship Course organized by UPIN - Innovation University of Porto.

In 2009, he completed the Forensic Medicine Postgraduation Course (current Specialization Course in Forensic Sciences) of the Faculty of Medicine of the University of Porto. In this Course, he has the role of Director and Coordinator of the Forensic Laboratory Science module.

He successfully completed 2 Postdoctoral PhDs in Clinical and Forensic Toxicology by the Portuguese Foundation for Science and Technology, in 2010 and 2013, respectively.

In 2012, approved by unanimity, he obtained the Habilitation (Aggregation) in Forensic Sciences at the Faculty of Medicine of the University of Porto, and was the youngest Professor at the University of Porto to achieve this academic degree.

Also in 2012, he was granted with the Registration as Lecturer in the A11-Health Sciences Domain.

He has experience in teaching and coordination of several Curricular Units related to Toxicology, Pharmacology, Research Project, Thesis and Dissertation Projects.

He coordinates the Monitoring Committee of the 2nd and 3rd Cycles of Studies in Forensic Sciences of the University of Porto.

He has been supervising several integrated master's dissertations, master's dissertations and doctoral theses.

He is author of more than 100 published articles (representing more than 2500 citations) in international journals, indexed by peer-review, and more than 30 book chapters, 4 patents and edited 4 books.

He holds the Young Scientist Award in Forensic Toxicology awarded by the International Association of Forensic Toxicologists and has received the Medal of Merit in Sciences awarded by the City Council of Santo Tirso, Portugal.

In 2016, he received the Young Forensic Scientist Award 2016 from the Portuguese Association of Forensic Sciences (Prof. Doutor Duarte Nuno Vieira Award).

He is Assistant Professor with Aggregation of the University Institute of Health Sciences (IUCS-CESPU) and of the Faculty of Medicine of University of Porto.

He is a Researcher at UCIBIO-REQUIMTE - Associated Laboratory for Green Chemistry, Clean Technologies and Processes and at the IINFACTS - Institute of Research and Advanced Training in Health Sciences and Technologies, where he is the Coordinator of the Forensic Sciences Research Line.

He integrates the group of 100 Merit Researchers/Professors awarded during celebrations of the 100 years of the University of Porto.

He is currently Director of the Department of Sciences, and Coordinator of the 1st Cycle of Studies in Forensic Laboratory Sciences, 1st Cycle of Studies in Biomedical Sciences and 2nd Cycle of Studies in Forensic Laboratory Sciences and Techniques of IUCS-CESPU.

He is President of the Portuguese Association of Forensic Sciences (APCF) and Vice-president of the Portuguese Society for the Study of Abuse and Neglect (SPECAN).

SELECTED PUBLICATIONS

- [1] Ventura, L.F.; Carvalho, R.J. Dinis-Oliveira Opioids in the frame of new psychoactive substances network: a complex pharmacological and toxicological issue. *Curr. Mol. Pharmacol.*, **2018**, *11*, 97-108.
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- [3] Barbosa, J.; Faria, J.; Leal, S.; Afonso, L.P.; Lobo, J.; Queiros, O.; Moreira, R.; Carvalho, F.; Dinis-Oliveira R.J. Acute administration of tramadol and tapentadol at effective analgesic and maximum tolerated doses causes hepato- and nephrotoxic effects in Wistar rats. *Toxicology*, **2017**, *389*, 118-129.
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- [5] Dinis-Oliveira, R.J.; Magalhaes T. Teaching and learning based on peer review: a realistic approach in forensic sciences. *F1000Res.*, **2016**, *5*, 1048.
- [6] Dinis-Oliveira, R.J. Metabolomics of drugs of abuse: a more realistic view of the toxicological complexity. *Bioanalysis*, **6**, **2014**, 3155-3159.
- [7] Dinis-Oliveira, R.J.; Magalhaes, T. The Inherent Drawbacks of the Pressure to Publish in Health Sciences: Good or Bad Science. *F1000Res.*, **2015**, *4*, 419.
- [8] Dinis-Oliveira, R.J.; Carvalho, F.; Moreira, R.; Duarte, J.A.; Proenca, J.B.; Santos, A.; Magalhaes, T. Clinical and forensic signs related to opioids abuse. *Curr. Drug Abuse Rev.*, **2012**, *5*, 273-290.
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- [10] Dinis-Oliveira, R.J.; Magalhaes, T.; Moreira, R.; Proenca, J.B.; Pontes, H.; Santos, A. Duarte, J.A.; Carvalho F. Clinical and forensic signs related to ethanol abuse: a mechanistic approach. *Toxicol. Mech. Methods*, **2014**, *24*, 81-110.
- [11] Silva, R.; Vilas-Boas, V.; Carmo, H.; Dinis-Oliveira, R.J.; Carvalho, F.; de Lourdes Bastos, M.; Remiao, F. Modulation of P-glycoprotein efflux pump: induction and activation as a therapeutic strategy. *Pharmacol. Ther.*, **2015**, *149*, 1-123.
- [12] Soares, J.X.; Alves, E.A.; Silva, A.M.N.; de Figueiredo, N.G.; Neves, J.F.; Cravo, S.M.; Rangel, M.; Netto, A.D.P.; Carvalho, F.; Dinis-Oliveira, R.J.; Afonso, C.M. Street-like synthesis of krokodil results in the formation of an enlarged cluster of known and new morphinans. *Chem. Res. Toxicol.*, **2017**, *30*, 1609-1621.