



SAMIR CAVALCANTE

Pharmacist and Chemistry Specialist

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PRACTICE AREAS

- Patents
- Prosecution
- Life Sciences
- Food & Drugs

LANGUAGES

- Portuguese
- English

BIOGRAPHY

Samir Cavalcante joined Licks Attorneys' Rio de Janeiro Office in 2021, having previously worked with the office as technical advisor in lawsuits involving chemical patents and patent applications. Dr. Cavalcante has also been working with different domestic and international institutions on the design and synthesis of active pharmaceutical ingredients, analytical and organic chemistry, as well as CBRN Defense

Dr. Cavalcante is a highly skilled researcher with over 20 years of experience in organic synthesis, working with hazardous chemicals in complex scenarios, medicinal chemistry, and analytical techniques (NMR, GC, HPLC, MS, IR). Among his published scientific papers, he is the coinventor of four patents filed to the BRPTO, a reviewer for JCR-indexed scientific publications, and a lecturer in courses on CBRN Defense organized by Organisation for the Prohibition of Chemical Weapons (OPCW), Brazilian Army and Brazilian Air Force (Galeão Air Base Hospital). Additionally, Dr. Cavalcante is part of the United Nations Secretary-General's Mechanism (UNSGM) Qualified Expert roster (investigation of alleged use of CBT Agents – Chemical, Biological and Toxins). OPCW Qualified Expert Team Training Camp in 2014 (Czech Republic, 2014), Visiting Researcher (OPCW Fellowships) at Spiez Laboratory (Switzerland, 2012) and at VERIFIN/University of Helsinki (Finland, 2016).

PROFESSIONAL HIGHLIGHTS

- Nominated to the United Nations Secretary-General's Mechanism (UNSGM) Qualified Expert roster – investigation of alleged use of CBT Agents – Chemical, Biological and Toxins (2021);
- Organisation for the Prohibition of Chemical Weapons (OPCW) Fellow at Spiez NBC Laboratory (Switzerland, 2012, Organic Synthesis) and at VERIFIN/University of Helsinki (Finland, 2016, Nuclear Magnetic Resonance);

- OPCW Qualified Expert Team Member, 2014;
- Recipient of “OPCW Research Project Support” Programme (development of cholinesterase reactivators and reversible inhibitors, 2016-2018);
- Brazilian Representative in OPCW & TWAS Science and Diplomacy Meeting (2017);
- Brazilian Army Agency for Technological Innovation (AGITEC) – “Individual Inventor of the Year” (2019).

EDUCATION

- Doctor’s Degree (Ph.D), Organic Synthesis & Medicinal Chemistry, Federal University of Rio de Janeiro – UFRJ (2018);
- Master’s Degree (M.Sc), Organic Synthesis, Federal University of Rio de Janeiro – UFRJ (2006);
- Bachelor Degree (B.Sc), Pharmacy, Federal University of Rio de Janeiro – UFRJ (2003).

PUBLICATIONS

- [Quantum mechanical reference spectrum simulation for precursors and degradation products of chemicals relevant to the Chemical Weapons Convention](#), Magnetic Resonance in Chemistry, 2020;
- [Acetylcholinesterase: The ‘Hub’ for Neurodegenerative Diseases and Chemical Weapons Convention](#), Biomolecules, 2020;
- [Nerve Agents’ Surrogates: Invaluable Tools for Development of Acetylcholinesterase Reactivators](#), Current Organic Chemistry, 2019.
- Further publications available at: www.orcid.org/0000-0002-3478-2747