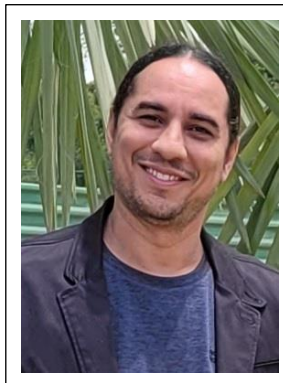


Eufrânio N. da Silva Júnior

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Eufrânio N. da Silva Júnior obtained his PhD in Chemistry at the University of Brasília in 2009. In 2010, he started his independent career as Professor at the Federal University of Minas Gerais (UFMG). His awards and distinctions include Royal Society of Chemistry/Brazilian Meeting on Organic Synthesis Young Investigator Award (2015), Jones Travelling Fellowship (2016), MedChemComm New Talent: Americas (2017), Themed collection 'Contributors to the emerging investigators issue of Chemical Society Reviews (2018), Capes-Humboldt Research Fellowship for experienced researchers (2018), Brazilian Chemistry Certificate of Distinction (2019), Elected Affiliate Member of the Brazilian Academy of Sciences (2020) and Fellow of the Royal Society of Chemistry (2023). He was visiting Professor at University of Bristol (2016) hosted by Prof. John Bower, at Universität Göttingen - Georg-August-Universität Göttingen (2018-2019) hosted by Prof. Lutz. Ackermann and at Indian Institute of Technology Bombay (2023) hosted by Prof. Irishi Namboothiri. His research interests are focused on catalysis, synthesis of heterocyclic, quinoidal bioactive and fluorescent compounds. He has 150 publications related to Organic Chemistry and Medicinal Chemistry.

19th Brazilian Meeting on Organic Synthesis

Title: Unlocking the Magic Quinones: Exploring Frontier Catalytic Approaches for Bioactive Quinoidal Compounds

This lecture will present a combination of strategies in Medicinal Chemistry and synthetic methodologies, as for instance, transition metal catalysed C–H activation reactions for the synthesis of bioactive compounds. The development of reactions that produces in a single step trypanocidal naphthoquinoidal compounds will be presented, along with recently developed iodination, oxygenation, alkenylation, thiolation and selenation processes. [2+2+2] Cycloaddition reactions, generation and capture of aryne quinones, nanocatalysis and the use of electrochemistry for the synthesis of a wide and varied range of bioactive molecules will also be explored in this seminar.

Selected References: *Angewandte Chemie International Edition* (2024) e202400188; *Chemical Communications* 59 (2023) 2763-2766; *Chemical Communications* 58 (2022) 3101-3121; *The Journal of Organic Chemistry* 86 (2021) 264-278; *Organic Letters* 22 (2020) 265-269; *Chemistry A European Journal* 26 (2020) 10981-10986; *European Journal of Organic Chemistry* (2020) 4474-4486; *Catalysis Science & Technology* 9 (2019) 2742-2748; *European Journal of Organic Chemistry* (2019) 2344-2353; *Chemical Society Reviews* 47 (2018) 12-27; *Chemical Science* 9 (2018) 6899-6903; *Chemistry A European Journal* 24 (2018) 15227-15235; *Chemical Communications* 54 (2018) 12840-12843; *Chemical Science* 7 (2016) 3780-3784; *Organic Letters* 18 (2016) 4454-4457.