TO MAGNIFICO RETTORE OF UNIVERSITÀ DEGLI STUDI DI MILANO **ID CODE:** 5809

I, the undersigned, request to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Scienze per gli Alimenti la Nutrizione e l'Ambiente.

Scientist-in-charge Prof. Sara Limbo and Prof. Manuela Rollini.

Daniele Maria Martins

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Maria Martins
Name	Daniele
Birth date	29/05/1992

PRESENT OCCUPATION

Appointment	**Structure**
Post-doc	Department of Food, Environmental and Nutritional Sciences, University of Milan

EDUCATION AND TRAINING

Degree	**Course of studies**	**University**	**year of achievement of the degree**
Bachelor in Chemistry	Chemistry	State University of São Paulo	2016
PhD	Science Area: Analytical and Inorganic Chemistry	University of São Paulo	2022
	Thesis: Amine Ru-dmso complex as pre-catalyst for polymerization reaction: kinetic and mechanistic studies.		
Master	Science	University of São Paulo	2018
	Dissertation: Development of Ru(II) sulfoxide complexes for application in ring-opening metathesis polymerization of cyclic olefins.		
Post-doc	Chemistry	Federal University of São Carlos	2023
Post-doc	Chemistry	University of Milan	2023 - currently

FOREIGN LANGUAGES

Languages	level of knowledge
English	B2
Portuguese	Native

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2023-currently	Postdoctoral funding by Nacional Council for Scientific and Technological Development (CNPq) at the University of Milan.
2022-2023	Postdoctoral funding by National Institute of Science and Technology (INCT) at the Federal University of São Carlos.
2018-2022	PhD student: Scholarship by Nacional Council for Scientific and Technological Development (CNPq) at the University of São Paulo.
2016-2018	Master Student: Scholarship by Nacional Council for Scientific and Technological Development (CNPq) at the University of São Paulo.
2015	Honorable Mention at the 9th Congress of undergraduate research of the Faculdades Adamantinenses Integradas.

TRAINING OR RESEARCH ACTIVITY

Description of activity	
02/2023-currently	Postdoctoral Fellow - Department of Food, Environmental and Nutritional Sciences, University of Milan, Milan, Italy. Project: Antioxidant Mg(II)-polyphenol compounds in bioactive films and coatings for food packaging. • Development of methodology to assess the inorganic componds effectiveness. • Incorporation of active molecules into biopolymer matrices. • Evaluation of films for food packaging and shelf life extension. • Set-up of *in situ* antimicrobial activity tests.
07/2022 – 01/2023	Postdoctoral Fellow - Department of Chemistry, Federal University of São Carlos, São Carlos, Brazil. Project: Development of biopolymers matrices with insecticidal agents and nutrients for sustainable protection of agricultural and horticultural regions. • Synthesis of new complexes with flavonoids obtained from food industry residue. • Physical and chemical characterization of active molecules. • Assessment of nutrient and target active molecules efficacy in agriculture.

PROJECT ACTIVITY

Year	Project
2023	"Antioxidant Mg(II)-polyphenol compounds in bioactive films and coatings for food packaging". The current project aims to evaluate the effectiveness of new active molecules incorporated into biopolymer matrices. It involves establishing *in situ* tests to assess antimicrobial activity and evaluating food packaging films to prolong shelf life.

CONGRESSES AND SEMINARS

Date	Title	Place
May 27, 2019	DMSO-based ruthenium complexes with anilin as further ancillary ligand: Synthesis, characterization and catalytic activity for olefin metathesis.	42nd Meeting of the Brazilian Chemical Society, Joinville, Brazil.
September 22, 2017	Ring-Opening Metathesis Polymerization of nornbornene using new ruthenium-aniline complexes.	14th Brazilian Congress of Polymers, Águas de Lindóia, Brazil.
2015	Synthesis, structural characterization, and analysis of the catalytic potential of the double perovskite $Ca_{0,5}K_{0,5}TiCu_{0,25}O_3$ in the synthesis of biodiesel via ethyl route.	9th Congress of undergraduate research students of the Faculdades Adamantinenses Integradas, Adamantina, Brazil.

PUBLICATIONS

Articles in peer review journals
Alves, E.A.; Tomazett, V.K.; **Martins, D.M.**; Lima-Neto, B.S. Development of ruthenium polypyridine metallo-monomers and characterization of their metallopolymers obtained by ROMP. New Journal of Chemistry, v. 46, p. 5799-5805, 2022. doi: 10.1039/D1NJ06085F
Gois, P.D.S.; Maia, J.I.P.; Masson, G.H.C.; **Martins, D.M.**; Machado, A.E.H.; Goi, B.E.; Maia, P.I.S.; Carvalho-Jr, V.P. Monometallic and heterobimetallic ruthenium (II) and palladium (II) complexes based on a pyridine-hydrazone ligand as bifunctional catalysts for ROMP of norbornene and ethylene polymerization. Applied Organometallic Chemistry, v. 36, p. 1-14, 2022. doi: 10.1002/aoc.6491
Masson, G.H.C.; Cruz, T.R.; Gois, P.D.S.; **Martins, D.M.**; Lima-Neto, B.S.; Oliveira, G.S.; Machado, A.E.H.; Bernardo-Gusmão, K.; Goi, B.E.; Carvalho-Jr, V.P. Ruthenium-nickel heterobimetallic complex as a bifunctional catalyst for ROMP of norbornene and ethylene polymerization. New Journal of Chemistry, v. 45, p. 11466-11473, 2021. doi: 10.1039/D1NJ01498F
Oliveira, D.P.; Cruz, T.R.; **Martins, D.M.**; Maia, P.I.S.; Machado, A.E.H.; Bogado, A.L.; Goi, B.E.; Lima-Neto, B.S.; Carvalho-Jr, V.P. *In situ*-generated arene-ruthenium catalysts bearing cycloalkylamines for the ring-opening metathesis polymerization of norbornene. Catalysis Today, v. 381, p. 34-41, 2021. doi: 10.1016/j.cattod.2020.10.018
Silva, T.B.; **Martins, D.M.**; Gois, P.D.S.; Borim, P.; Maia, P.I.S.; Carvalho-Jr, V.P.; Lima-Neto, B.S. fac-$[RuCl_2(DMSO\text{-}S)_3$(n-butylamine)]: Synthesis, structural characterization and dual catalytic performance. Inorganic Chemistry Communications, v. 112, p. 107749, 2020. doi: 10.1016/j.inoche.2019.107749
Cruz, T.R.; Silva, E.A.; Oliveira, D.P.; **Martins, D.M.**; Gois, P.D.S.; Machado, A.E.H.; Maia, P.I.S.; Goi, B.E.; Lima-neto, B.S.; Carvalho-Jr, V.P. Dual catalytic performance of arene-ruthenium amine complexes for norbornene ring-opening metathesis and methyl methacrylate atom-transfer radical polymerizations. Applied Organometallic Chemistry, v. 34, p. 5602, 2020. doi: 10.1002/aoc.5602

Gois, P.D.S.; Cruz, T.R.; **Martins, D.M.**; Machado, A.E.H.; Bogado, A.L.; Lima-Neto, B.S.; Goi, B.E.; Carvalho-Jr, V.P.
Cyclic amines homobimetallic ruthenium pre-catalysts bearing bidentate phosphine and their dual catalytic activity for the ring-opening metathesis and atom-radical polymerizations.
Journal of Molecular Structure, v. 1198, p. 126874, 2019. doi: 10.1016/j.molstruc.2019.126874

Martins, D.M.; Maia, P.I.S.; Carvalho-Jr, V.P.; Lima-Neto, B.S.
Cooperative effects of aniline with DMSO in new Ru^{II} complexes tuning the reactivity for ring-opening metathesis polymerization.
European Journal of Inorganic Chemistry, v. 2019, p. 4421-4426, 2019. doi: 10.1002/ejic.201900887

Congress Proceedings

Martins, D.M.; Lima-Neto, B.S. DMSO-based ruthenium complexes with anilin as further ancillary ligand: Synthesis, characterization and catalytic activity for olefin metathesis. In: 42nd Meeting of the Brazilian Chemical Society, Joinville, 2019.

Martins, D.M.; Lima-Neto, B.S. Ring-Opening Metathesis Polymerization of norbornene using new ruthenium-aniline complexes. In: 14th Brazilian Congress of Polymers, Águas de Lindóia, 2017.

Martins, D.M.; Lanfredi, S.; Nobre, M.A.L. Synthesis, structural characterization, and analysis of the catalytic potential of the double perovskite $Ca_{0,5}K_{0,5}TiCu_{0,25}O_3$ in the synthesis of biodiesel via ethyl route. In: 9th Congress of undergraduate research of the Faculdades Adamantinenses Integradas, Adamantina, 2015.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Milan, 26/06/2023