Michele do Nascimento TOMAZ

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Date and Place of Birth: 27/03/1994, Joinville (Santa Catarina, Brazil)
Gender: Female | Age: 27

Strongly interested in chemistry research, I would like to deepen my skills in experimental techniques and knowledge of synthetic chemistry within a remarkable institution

EDUCATION

PhD in Chemical Sciences

University of Padova (UNIPD) – Italy | 2021 – Now
Early Stage Researcher (ESR) in Marie Skłodowska-Curie Actions Innovative Training Network (MSCA-ITN) in the project DIRNANO - Directing the Immune Response through designed NANOmaterials.

Master's Degree in Applied Chemistry

Universidade do Estado de Santa Catarina (UDESC) – Brazil | 2019 – 2020
Universidade Federal de Santa Catarina (UFSC) – Brazil | Jan 2018 – Jun 2018

- Thesis approved on 31/07/2020
- Main courses (Institution, Final Mark):
  - Bioinorganic chemistry (UFSC, A)
  - Advanced Inorganic chemistry (UDESC, A)
  - Organic Molecular Spectroscopy (UDESC, C)
  - Research Methodology (UDESC, B)
  - Seminar I (UFSC, B)
  - Seminar II (UDESC, A)
  - Teaching Practice in Chemistry (UDESC, A)
- Title of the thesis: "*New Zn (II) bioinspired complexes: Structural studies via ^{1}H and ^{13}C NMR and DNA interaction tests*"
  Supervisor: Prof. Fernando Roberto Xavier (fernando.xavier@udesc.br)
- The thesis work deals with the design and the synthesis of new zinc complexes containing long chain alkyl groups. The compounds have been prepared and then fully characterized by analytical and spectroscopic methods, including 2D NMR analyses; preliminary tests on the biological activity have been carried out using ssDNA

Note: the course started at UFSC and then continued at UDESC
Grading system: A = 9.0 to 10.0; B = 8.0 to 8.9; C = 7.0 to 7.9; D = below 7.0
Temporary overall average mark = **8.9 / 10**
(the final average mark will not be available until emission certificate)

Bachelor's Degree in Chemistry

Universidade do Estado de Santa Catarina (UDESC) – Brazil | 2012 – 2017

- Average Mark: **7.6 / 10** (see "Undergraduate Academic History")
- Subjects of lectures: Analytical Chemistry, Instrumental Analytical Chemistry, Physical Chemistry, Organic Chemistry, Experimental Organic Chemistry, Physical Methods of Organic Analysis, Coordination Chemistry

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Other courses Summer School on NMR spectroscopy	Universidade Federal do Paraná (UFPR) – Curitiba, Brazil | 2019 • Experimental Prerequisites in Quantitative NMR Analysis | 8hrs • Fundamental Principles in NMR Experiments | 20hrs
III ACS BOOST Workshop: Skills for Young Scientists	Universidade do Estado de Santa Catarina (UDESC) – Joinville, Brazil | 2017 • Lectures on tools to develop communication and writing skills and further advents in scientific career. | 8hrs
XXI Meeting of Chemistry of the Southern Region - SBQ-Sul.	Universidade Estadual de Maringá (UEM) – Maringá, Brazil | 2014 • Introduction to mass spectrometry and its current context | 4hrs

PUBLICATIONS

1) K. W. Miranda, E. C. D. Souza, **M. Tomaz**, M. A. T. Duarte, S. H. Pezzin, "Biodegradable Copolymers Obtained by Solution Polymerization", *Mat. Res.* **2015**, *18*, 200-204 [DOI: 10.1590/1516-1439.365514]

2) P. S. Tessaro, **M. N. Tomaz**, S. R. Mendes, R. A. Gariani, G. Farias, B. de Souza, F. R. Xavier, "Zinc complexes containing a Biologically Relevant Bis-indolylmethane Moiety: Biocide and antitumoral properties", in preparation

ATTENDED CONFERENCES AND COMMUNICATIONS

2019	42th RASBQ: Annual Meeting of the Brazilian Chemistry Society. Joinville, Brazil Poster presentation by M. N. Tomaz: M. S. S. Paqui, G. W. Streit, **M. N. Tomaz**, F. R. Xavier, "*A new bioinspired complex of Nickel(II): Synthesis, characterization and DNA studies"*
2017	18th International Conference on Biological Inorganic Chemistry - ICBIC. Florianópolis, Brazil Poster presentation by M. Tomaz: **M. Tomaz**, F. R. Xavier, P. S. Tessaro. "*A zinc complex with a biologically relevant bis-indolylmethane intercalating motif: Synthesis, characterization and DNA interaction"*
2016	XVIII Brazilian Meeting on Inorganic Chemistry. São Pedro, Brazil Oral presentation by F. R. Xavier: F. R. Xavier, **M. Tomaz**, E. Luiz, P. S. Tessaro. "*An Unprecedented Zinc(2+) complex with a biologically relevant bisindolyl intercalating moiety: From ligand design to Preliminary Docking Studies towards ssDNA"*

2016	National Meeting on Education in Chemistry. Florianópolis, Brazil Poster presentation by M. Tomaz: **M. Tomaz**, G. Cervi, R. D. Huelsmann, D. Ceola, T. Puccinelli, F. S. F. Sell, M. G. M. B. Martin. "*Development of a periodic table using the signwritting system"*
2015	38th RASBQ: Annual Meeting of the Brazilian Chemistry Society. Águas de Lindóia, Brazil Poster presentation by M. Tomaz: **M. Tomaz**, F. R. Xavier, S. R. Mendes. "*Development of a new Cu (II) complex containing indole intercalants"*
2015	XXII Meeting of Chemistry of the Southern Region - SBQ-Sul. Joinville, Brazil Poster presentation by R. D. Huelsmann: R. D. Huelsmann, **M. Tomaz**, E. Martendal, F. Kruczkiewicz. "*Use of phthalate esters (EF) as a theme in gas chromatography: Experimentation in the study of the effect of variation in chromatographic parameters and EF migration of plastic samples"*
2012	XIX Meeting of Chemistry of the Southern Region - SBQ-Sul. Tubarão, Brazil Oral presentation by M. Tomaz: **M. Tomaz**, J. C. Hoepfner, S. H. Pezzin. "*Funcionalization of multiple wall nanotube carbon with GLYMO"*

GRANTS

Postgraduate Monitoring Scholarship Program (PROMOP) Grant	Postgraduate research grant program for students enrolled in a Master's Degree course in Applied Chemistry Universidade do Estado de Santa Catarina (UDESC) – Joinville, Brazil • 2019 – 2020
Scientific Initiation Scholarship Program Grants	Research grants for undergraduate students on extra-curricular research projects.
Synthesis and Catalysis Laboratory	Universidade do Estado de Santa Catarina (UDESC) – Joinville, Brazil • 26 months (20h/week), 2015 – 2017 • Project Title: "*Synthesis and Characterization of N-Link-Based Catalysts, O-Donors with Heteroaromatic Intercalating Groups Acting on Acid Cleavage"* • Advisor: Prof. Fernando Roberto Xavier

Synthesis and Catalysis Laboratory	Universidade do Estado de Santa Catarina (UDESC) – Joinville, Brazil • 26 months (20h/week), 2013 – 2015 • Project Title: "*Development of Luminescent Mononuclear Metal Complexes as Catalysts of Bioinorganic Relevance*" • Advisor: Prof. Fernando Roberto Xavier
Polymer Materials Research Group	Universidade do Estado de Santa Catarina (UDESC) – Joinville, Brazil • 26 months (20h/week), 2013 – 2015 • Project Title: "*Multifunctional polymeric nanocomposites reinforced with graphene - Part 2: Materials with high levels of graphene and molding by resin transfer*" • Advisor: Prof. Sérgio Henrique Pezzin

SKILLS AND EXPERTISE

Scientific skills:	• Solid knowledge of Inorganic, Organic, Analytical and Physical Chemistry • Synthesis and characterization of inorganic and organic compounds • Good practice with IR, NMR, UV-Vis spectroscopy, mass spectrometry, thermogravimetric data treatment, voltammetry, TEM (transmission electron microscopy) and reflectance spectroscopy. • Techniques of purification of solid and liquid inorganic/organic compounds (distillation, chromatography, crystallization)
Native Language:	Portuguese
Foreign language proficiencies:	Cambridge English: First, University of Cambridge ESOL Examinations, CEFR level B1
Computer skills:	• Windows operating system and software (Word, Excel, Powerpoint) • Chemistry Software (ChemDraw, TopSpin, Origin, Mercury) • Bibliography search tools (SciFinder, Reaxys, Google Scholar, Scopus) • Basic knowledge on ORCA
Social skills:	• Resourcefulness • Team Coordination • Capability of cooperating with other people (academic and extra-academic team works) • Proactivity • Respect of deadlines

TEACHING ACTIVITY

Mentoring	Universidade do Estado de Santa Catarina (UDESC) – Joinville, Brazil **2013**, 11 months (4h/week) Volunteer in Chemistry on education: planning and application of chemistry activities for Elementary School students.