

PROF. NELSON LUÍS DE CAMPOS DOMINGUES

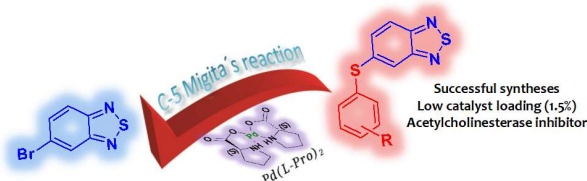


EDUCATION, ACADEMIC APPOINTMENTS

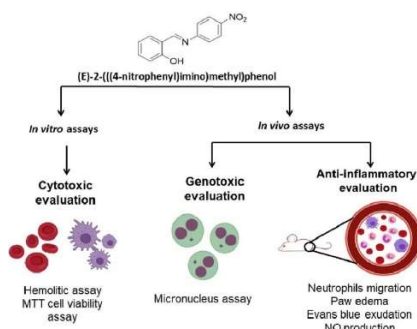
- ✓ Current CNPq Scientific Productivity Fellowship #2 from the Brazilian National Council for Scientific and Technological Development (CNPq).
- ✓ Dean of Research and Post-graduation teaching of Federal University of Grande Dourados (2018-2019)
- ✓ Research Coordinator of Federal University of Grande Dourados (2016-2017).
- ✓ Coordinator of Ph.D. course in Biotechnology and Biodiversity (2013-2016);
- ✓ Associate Professor at Federal University of Grande Dourados since 2014.
- ✓ Assistant Professor of Chemistry, Federal University of Grande Dourados 2008-2014
- ✓ Postdoctoral Research Associate with Professor Paulo Roberto Olivato, São Paulo University, 2007-2008.

MOST REMARKABLE PUBLICATIONS AND SCHEMES

1. Efficient palladium-catalyzed C-S cross-coupling reaction of benzo-2,1,3-thiadiazole at C-5-position: A potential class of AChE inhibitors, Applied Organometallic Chemistry, **ASAP**



2. Synthesis and Biological Activities of a Nitro-Shiff Base Compound as a Potential Anti-Inflammatory Agent, European Journal of Pharmaceutical Sciences, **2020**, 148 (30), 105300



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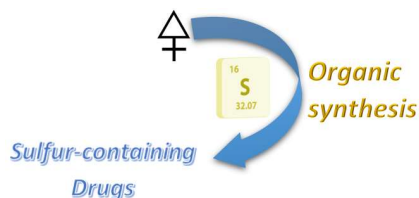


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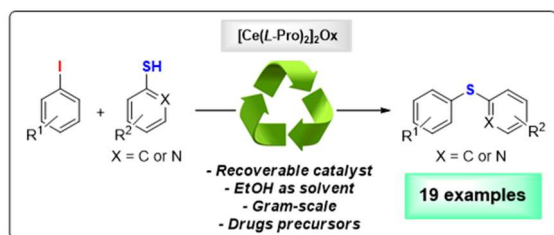
RESEARCH INTERESTS

- ✓ C-H activation or cross-coupling reactions through palladium, ruthenium and or nickel catalysis;
- ✓ Designing of new methods for photocatalytic reactions;
- ✓ Application of developed methods for synthesis of biological interesting products.

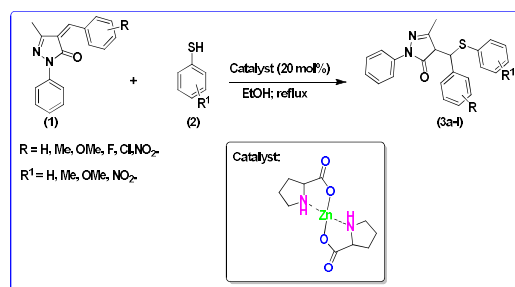
3. Review of the Syntheses and Activities of Some Sulfur-Containing Drugs, Current Organic Synthesis, **ASAP**.



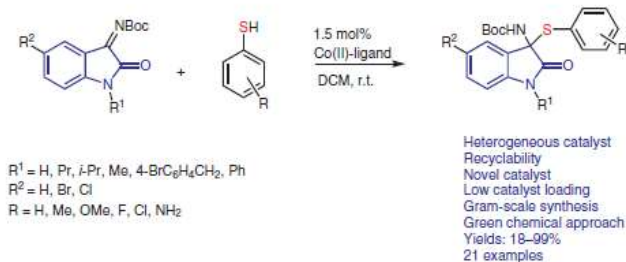
4. Cerium catalyst promoted C-S cross-coupling: Synthesis of thioethers Dapsone and RN-18 precursors, Organic & Biomolecular Chemistry, **2019**, 17, 10103-10108



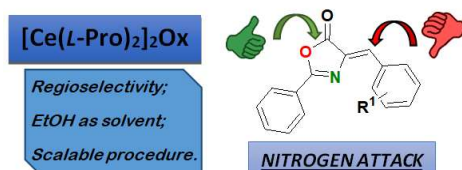
5. [Zn(L-Pro)2] as a simple, and efficient catalyst: A convenient route for the synthesis of thia-Michael derivatives via green chemical approach, ChemistrySelect, **2019**, 4, 13304-13306



6. Cobalt Used as a Novel and Reusable Catalyst: A New and One-Pot Synthesis of Isatin-Derived N,S-Acetals Using Substituted Isatins and Thiols. Synthesis **2019**, 51, A-1



7. A Novel and Efficient Methodology for the Synthesis of Vinylamide Derivatives Using [Ce(L-Pro)2]2Ox as Heterogeneous Catalyst. ChemistrySelect, **2018**, 3, 6570-6574.



GRADUATE, MASTER, DOCTORATE AND POST-DOCTORATE SUPERVISIONS

I have so far supervised (since 2008):

More than 20 Graduate students

16 Masters

04 Doctorate

02 Post-Doctor

PATENTS

1. COMPOSTOS BENZO-2,1,3-TIADIAZOIS INIBIDORES DA ATIVIDADE DA ENZIMA ACETILCOLINESTERASE (filing of patent application)
2. BR102019005792-0 - COMPOSTO ANTITUMORAL OU ANTIOXIDANTE DE DERIVADOSN,S-ACETAIS
3. BR102018073447-4 - PELÍCULA BIOCOMPATÍVEL PARA CICATRIZAÇÃO DE FERIDAS.
4. BR 10 2013 033952-0 - MÉTODO DE EXTRAÇÃO VERDE DE QUITOSANA E/OU BIOPOLÍMERO NITROGENADO

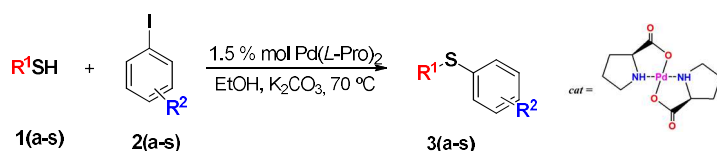
REMANING INDEPENDENT PUBLICATIONS

- ✓ RAKHI, CHOWRASIA; RAMESH, KATLA; DARBEM, MARIANA P.; BRANQUINHO, TABATA A.; OLIVEIRA, A. R.; MANJARI, PADMA SUNITHA; DOMINGUES, N. L. C. Novel multi-component syntheses of pyrimidines using β -CD in aqueous medium. *Tetrahedron Letters*. **2016**, 57, 1656 - 1660.
- ✓ SILVA, C. T. P.; KUPFER, V. L.; SILVA, G. R.; MOISES, M. P.; TRINDADE, M. A. G.; DOMINGUES, N.L.C.; RINALD, A. W. One-step Electrochemical Synthesis of Polyaniline/Metallic Oxide Nanoparticle (γ -Fe₂O₃) Thin Film. *International Journal of Electrochemical Science*, **2016**, 11, 5380 - 5394.
- ✓ KUPFER, V. L.; SILVA, C. T. P.; DOMINGUES, N.L.C.; MOISES, M. P.; RINALD, A. W. Polyaniline doped folic acid with morphologic like-plates and high crystallinity, synthesis and characterization. *International Journal of Innovative Science, Engineering & Technology*. **2016**, 3, 473 - 478.
- ✓ BOZA, ARTHUR F; KUPFER, VICENTE L; OLIVEIRA, ALINE R; RADOVANOVIC, EDUARDO; RINALDI, ANDRESON W; MENEGUIN, JOZIANE G; DOMINGUES, NELSON LUÍS C; MOISES, MURILO P; FÁVARO, SILVIA L, Synthesis of α -aminophosphonates using a mesoporous silica catalyst produced from sugarcane bagasse ash. *RSC Advances*, **2016**, 6, 23981 - 23986.
- ✓ DE OLIVEIRA, ALINE; KATLA, RAMESH; ROCHA, MARIANA; ALBUQUERQUE, TÁBATA; DA SILVA, CAREN; KUPFER, VICENTE; RINALDI, ANDRESON; DOMINGUES, NELSON, Zinc Di(l-prolinate)-Mediated Synthesis of α -Aminophosphonates under Mild Conditions. *Synthesis (Stuttgart)*. **2016**, 48, A - F.
- ✓ KONKALA, KARNAKAR; CHOWRASIA, RAKHI; MANJARI, PADMA S.; DOMINGUES, NELSON L. C.; KATLA, RAMESH, β -Cyclodextrin as a recyclable catalyst: aqueous phase one-pot four-component synthesis of polyfunctionalized pyrroles. *RSC Advances*, **2016**, 6, 43339 - 43344.
- ✓ KATLA, R.; CHOWRASIA, R.; MANJARI, P. S.; DOMINGUES, NELSON LUIS C., An efficient aqueous phase synthesis of

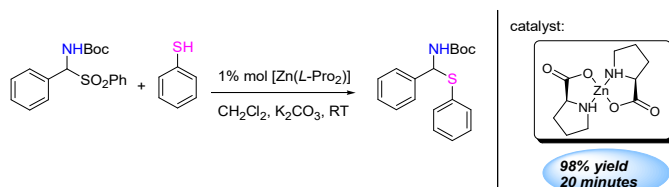
8. Lipase catalyzed 1,2-addition of thiols to imines under mild conditions, *New Journal of Chemistry*, **2018**, 42, 1642-1645.



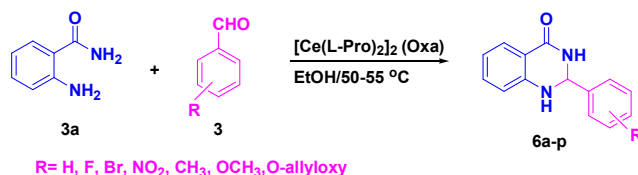
9. C-S cross-coupling reaction using a recyclable palladium proline catalyst under mild and green conditions, *ChemistrySelect*, **2017**, 2, 4462-4465.



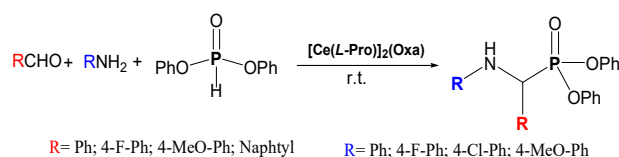
10. A new procedure for addition of thiols to imines using Zn[(L)-Proline]₂ as a catalyst in mild conditions, *ChemistrySelect* **2017**, 2, 4462 – 4465.



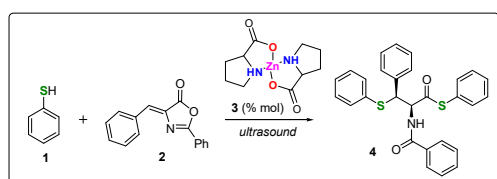
11. Recyclable [Ce(L-Pro)₂]₂ (Oxa) used as heterogeneous catalyst: one-pot synthesis of 2,3-dihydroquinazolin-4(1h)-ones in ethanol, *Synthesis* **2017**, 49, A–F.



12. A new, efficient and recyclable Ce(L-Pro)]₂(Oxa) heterogeneous catalyst used in the Kabachnik–Fields reaction, *RSC Adv.*, **2016**, 6, 27213–27219.



13. A novel and efficient methodology for thio-Michael addition in the synthesis of cis-β-thio-α-aminoacid derivatives using Zn[(L)-Pro]₂ as heterogeneous catalyst, *RSC Adv.*, **2016**, 6, 4979-4982.



benzimidazoles/benzothiazoles in the presence of β-cyclodextrin. *RSC Advances*, **2015**, 5, 41716 - 41720.

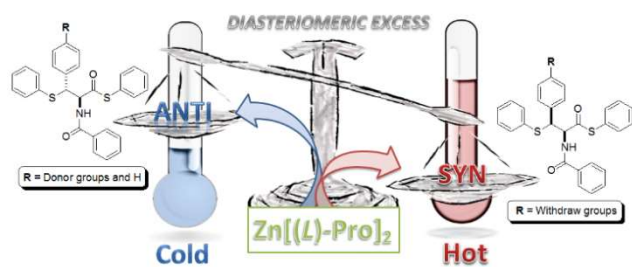
✓ AMORES, RAFAEL A.C.; FELIX, ANDERSON A.; BOTERO, ERITON R.; DOMINGUES, NELSON L.C.; FALCÃO, EVARISTO A.; ZAGHETE, MARIA A.; RINALDI, ANDRELSO W. Crystallinity, Morphology and High Dielectric Permittivity of NiO Nanosheets Filling Poly(vinylidene fluoride). *Ceramics International*. **2015**, 41, 14733 - 14739.

✓ SILVA, F. S.; SUEGAMA, P. H.; Da SILVA, W. P.; RINALDI, A. W.; DOMINGUES, N. L. C.; MATSUMOTO, M. Y.; SALAZAR, L. G. Effect of Different Dopants in Films TEOS / MPTS Used to Protect the Carbon Steel. *Materials Science Forum*. **2015**, 805, p.167 - 171.

✓ DARBEM, M. P.; OLIVEIRA, ALINE R.; WINCK, CRISTIANE R.; RINALDI, ANDRELSO W.; DOMINGUES, N. L. C. Hybrid material from Zn[aminoacid]₂ applied in the thio-Michael synthesis. *Tetrahedron Letters*. **2014**, 55, 5179 - 5181.

✓ RIZZO, PAULA V.S.; BOARIN, LIGIA A.; FREITAS, INGRIDHY O.M.; GOMES, ROBERTO S.; BEATRIZ, ADILSON; RINALDI, ANDRELSO W.; DOMINGUES, NELSON LUÍS C. The study of biocatalyzed thio-Michael reaction: a greener and multi-gram protocol. *Tetrahedron Letters*. **2014**, 55, 430 - 434.

14. A novel and efficient methodology for thio-Michael addition in the synthesis of cis- β -thio- α -aminoacid derivatives using $\text{Zn}[(L)\text{-Pro}]_2$ as heterogeneous catalyst, *RSC Adv.*, **2016**, 6, 4979-4982.



15. $[\text{Ce}(\text{L-Pro})_2]_2$ (Oxa) as a heterogeneous recyclable catalyst: synthesis of pyrazoles under mild reaction conditions, *New J. Chem.*, **2016**, 40, 9471-9476

