



Nam (Duc) VU

Junior Researcher in Organic Synthesis & Macromolecular Materials

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• PROFESSIONAL EXPERIENCES

03.2019-08.2020 | Postdoctoral researcher in polymer chemistry - ESPCI Paris

Funding : CNRS Emergence 2019-2020.

Project : "The synthesis of hydrophilic poly(thiazolidines) and their uses in the preparation of cross-linked dynamic covalent hydrogels"

- Synthesis of monomers and their uses in the preparation of poly(dimethylacrylamides).
- Characterization of the polymers by ¹H-NMR, GPC, SEC, IR, DSC, TGA.
- Fabrication of dynamic thiazolidine hydrogel and their characterisations by rheology.

Supervisors : Dr. Amandine Guerinot, Prof. Renaud Nicolaÿ.

2015-2018 | Doctoral studies in Green Chemistry - ICBMS, UCBL , France

Funding : SAS P.I.V.E.R.T (Compiègne, France).

Project : "Valorization of vegetable oil derivatives to value-added compounds through catalysis"

- Functionalization of fatty acid derivatives.
- Organocatalyst cleavage of plant oil derivatives to bio-aldehydes.
- Development of a polymer bearing an organocatalyst for fixation of CO₂ into cyclic carbonates.

Supervisors : Dr. Nicolas Duguet, Dr. Estelle Metay, Prof. Marc Lemaire.

08.2013-11.2013 | Researcher Exchange, Center of Biological Sciences

KAO Tochigi Manufactory, Japan.

- Studies on the antifungal activity of 4 extracts derived from *Clausena lansium* Skeel and *Goniothalamus vietnamsis* Ban.
- Isolation of 5 compounds (4 known and 1 new) from residue of *Clausena lansium* and investigated their antifungal activities.

2012-2014 | Researcher, National Institute of Medicinal Materials (Vietnam).

Project : "Total synthesis of Clopidrogel bisulfate- an antiplatelet drugs for the treatment of coronary artery, peripheral vascular and cerebrovascular diseases".

Project : "Study on the extraction and enantiomer separation of (-)-gossypol from *Gossypium* species in Vietnam".

02.2010-05.2010 | Internship Laboratory of Modified Nucleic Acid System,

POSTECH, Korea - Prof Byeang Hyeon Kim.

Project : "Synthesis of modified fluorescent nucleotides via Sonogashira coupling".

• EDUCATION

2015/2018 | PhD in Organic Chemistry, University Claude Bernard Lyon 1, France.

Team "Catalysis, Synthesis and Environment", ICBMS, in the group of Prof. Marc Lemaire.

2014/2015 | M.Sc. in Synthesis, Catalysis and Sustainable Chemistry (SCSC),

University Claude Bernard Lyon, France.

2005/2010 | Chemical Engineer, in Pharmaceutical Chemistry,

Hanoi University of Science and Technology, Vietnam.

• SKILLS

Technical

Organic synthesis

Polymer chemistry

Autoclave (H₂, O₂, CO₂)

Organometallic synthesis

Catalysis

Green chemistry

Analytical chemistry

¹H-NMR, ¹³C-NMR, 2D-NMR

Hot-liquid state NMR

HPLC

GC, GC-MS

IR, UV-VIS

GPC, SEC

DSC, TGA

Computing

ChemOffice

MestReNova

Omic

Microsoft Office

SciFinder

Reaxys

Espacenet

• SCIENTIFIC RESULTS

- *Adv. Syn. Catal.* **2020**, 362, 8, 1696 - 1705.
- *J Am. Oil Chem. Soc.*, **2020**, 97, 81- 91.
- *ACS Sustainable Chem. Eng.* **2019**, 7, 16, 13865 -13872.
- *Eur. J. Org. Chem.*, **2019**, 1251–1256.
- *Chem. Eur. J.*, **2018**, 24, 8141-8150.
- *Green Chem.*, **2017**, 19, 3390-3399.
- *Nat. Prod. Sci.*, **2016**, 22, 35-40.
- *Viet. J. Pharm.* **2015**, 9, 28-33.

• LANGUAGES

English (intermediate)

French (debutant)

Vietnamese (native)