

VERONICA TONA

CAREER

January 2021–Present	Scientist Discovery Process Research The Janssen Pharmaceutical Companies of Johnson & Johnson, <i>Beerse, Belgium</i>
August 2020–April 2021	Editor TopEdit Author Services, <i>Remote work</i>

EDUCATION

September 2019–December 2020	Max Kade Postdoctoral Research Fellow, <i>University of California, Los Angeles, United States of America</i> Topics: total synthesis, synthesis of heterocycles Supervisor: Prof. Neil K. Garg
May 2019–July 2019	Postdoctoral Research Fellow, <i>Universität Wien, Austria</i> Collaboration with <i>Covestro, Germany</i> Topic: carbamates synthesis Supervisor: Prof. Nuno Maulide
January 2015–April 2019	PhD in Organic Chemistry with Honours, <i>Universität Wien, Austria</i> Topics: carbocations, keteniminium ions, amide activation, amination Supervisor: Prof. Nuno Maulide
October 2012–October 2014	Master's Degree in Chemistry and Advanced Chemical Methodologies cum Laude, <i>Università di Camerino, Italy</i> Topics: Lewis acids, nitroindoles, heterocycles Supervisor: Prof. Enrico Marcantoni
October 2009–July 2012	Bachelor's Degree in Chemistry cum Laude, <i>Università di Camerino, Italy</i> Topics: Lewis acids, protecting groups, benzyl ethers Supervisor: Prof. Enrico Marcantoni

INTERNSHIPS

May 2014–August 2014	Erasmus Placement, <i>Royal College of Surgeons in Ireland, Chemistry Department, Dublin, Ireland</i> Topics: synthesis and functionalization of nitroindoles Supervisor Prof. Mauro Adamo
----------------------	--

SCHOLARSHIPS AND FELLOWSHIPS

2020–2021	Max Kade Postdoctoral Fellowship of the Austrian Academy of Sciences (ÖAW)
2012–2013	Borsa di Merito Università di Camerino – University of Camerino Academic Scholarship
2010–2011	Borsa di Merito Università di Camerino – University of Camerino Academic Scholarship

PUBLICATION LIST

(† = equal contribution; * = corresponding author)

1. Hsu, C.-S.; Goncalves, C.; Tona, V.; Pons, A.; Kaiser, M.; Maulide, N.* Leveraging Electron-deficient Iminium Intermediates in a General Synthesis of Valuable Amines. *Angew. Chem. Int. Ed.* **2022**, e202115435; DOI: 10.1002/anie.202115435.
2. Anthony, S. M.; Tona, V.; Zou, Y.; Morrill, L. A.; Billingsley, J. M.; Lim, M.; Tang, Y.;* Houk, K. N.;* Garg, N. K.* Total Synthesis of (–)-Strictosidine and Interception of Aryne Natural Product Derivatives “Strictosidyne” and “Strictosamidyne”. *J. Am. Chem. Soc.* **2021**, 143, 7471–7479; DOI: 10.1021/jacs.1c02004.
3. Knapp, R. R.;† Tona, V.;† Okada, T.; Sarpong, R.;* Garg, N. K.* Cyanoamidine Cyclization Approach to Remdesivir’s Nucleobase. *Org. Lett.* **2020**, 22, 8430–8435; DOI: 10. acs.orglett.0c03052.
4. Hardy, M.; Wright, B.; Bachman, J. L.; Boit, T.; Haley, H.; Knapp, R.; Lusi, R.; Okada, T.; Tona, V.; Garg, N. K.;* Sarpong, R.* Treating a Global Health Crisis with a Dose of Synthetic Chemistry. *ACS Cent. Sci.* **2020**, 6, 1017–1030; DOI: 10.1021/acscentsci.0c00637.
5. Pons, A.; Michalland, J.; Zawodny, W.; Chen, Y.; Tona, V.; Maulide, N.* Vinyl Cation Stabilization by Silicon Enables a Formal Metal-free α -Arylation of Alkylketones. *Angew. Chem. Int. Ed.* **2019**, 58, 17303–17306; DOI: 10.1002/anie.201909381.
6. Kaiser, D.;† Tona, V.;† Goncalves, C.;† Shaaban, S.; Oppedisano, A.; Maulide, N.* A General Acid-mediated Hydroaminomethylation of Unactivated Alkenes and Alkynes. *Angew. Chem. Int. Ed.* **2019**, 58, 14639–14643; DOI: 10.1002/anie.201906910.
7. Stopka, T.;† Adler, P.;† Hagn, G.; Zhang, H.; Tona, V.; Maulide, N.* Electrophilic Activation of Amides for the Preparation of Polysubstituted Pyrimidines. *Synthesis* **2019**, 51, 194–202; DOI: 10.1055/s-0037-1610411.
8. Shaaban, S.; Tona, V.;† Peng, B.;† Maulide, N.* Hydroxamic Acids as Chemoselective (ortho-Amino)arylation Reagents via Sigmatropic Rearrangement. *Angew. Chem. Int. Ed.* **2017**, 56, 10938–10941; DOI: 10.1002/anie.201703667.
9. Tona, V.; Maryasin, B.; de la Torre, A.; Sprachmann, J.; González, L.;* Maulide, N.* Direct Regioselective Synthesis of Tetrazolium Salts by Activation of Secondary Amides under Mild Conditions. *Org. Lett.* **2017**, 19, 2662–2665; DOI: 10.1021/acs.orglett.7b01004.
10. de la Torre, A.;† Tona, V.;† Maulide, N.* Reversing Polarity: Carbonyl α -Aminations with Nitrogen Nucleophiles. *Angew. Chem. Int. Ed.* **2017**, 56, 12416 –12423; DOI: 10.1002/anie.201702937 (MINIREVIEW).
11. Tona, V.;† de la Torre, A.;† Padmanaban, M.; Ruider, S.; González, L.;* Maulide, N.* Chemo- and Stereoselective Transition-Metal-Free Amination of Amides with Azides. *J. Am. Chem. Soc.* **2016**, 138, 8348–8351; DOI: 10.1021/jacs.6b04061.
12. Tona, V.;† Ruider, S.;† Berger, M.; Shaaban, S.; Padmanaban, M.; Xie, L.-G.; González, L.;* Maulide, N.* Divergent Ynamide Reactivity in the Presence of Azides – An Experimental and Computational Study. *Chem. Sci.* **2016**, 7, 6032–6040; DOI: 10.1039/C6SC01945E.

PATENTS

13. Maulide, N.; Tona, V. Production of Amines via a Hydroaminomethylation Reaction using Iminium Reactants. World Patent WO 2020/064917 A1, April 02, 2020.
14. Maulide, N.; Shaaban, S.; Goncalves, C.; Tona, V.; Kaiser, D. Production of Amines via a Hydroaminomethylation Reaction. World Patent WO 2019/219942 A1, November 21, 2019.

TEACHING EXPERIENCE

- Organic Chemistry Practical Course, *Universität Wien, Austria*
Supervisor and coordinator of the course; evaluation of the students via oral exams (winter semester 2016: 58 students; summer semester 2017: 45 students; winter semester 2017: 54 students; summer semester 2018: 48 students)
- Basic Organic Chemistry Practical Course, *Universität Wien, Austria*
Supervisor and coordinator of the course; evaluation of the students via oral exams (winter semester 2015: 62 students; summer semester 2016: 83 students; winter semester 2018: 133 students; summer semester 2019: 83 students)
- Supplementary Organic Chemistry Practical Course, *Universität Wien, Austria*
Supervisor and coordinator of the optional course; evaluation of the students via oral exams (summer semester 2019: 2 students)
- Master's Students Supervisor (2017, E. Lopez, Universidade Federal de Pelotas, Brazil – 2017, E. Smith, University of Warwick, United Kingdom, Erasmus student – 2018, H. Zhang, Universitaet Wien, Austria)
- Bachelor's Students Supervisor (2015, K. Braunsteiner, Universitaet Wien, Austria – 2016, J. Sprachmann, Universitaet Wien, Austria)

CONFERENCE PRESENTATIONS AND AWARDS

- Empowering Women in Organic Chemistry 2021, Virtual - Poster presentation
- Balticum Organicum Syntheticum 2018, Tallinn, Estonia - Poster presentation
- Women in Science Symposium 2018, Erlangen, Germany - Oral communication
- Portuguese Young Chemists Symposium 2018, Setúbal, Portugal - Oral communication
- International Summer School on Organic Synthesis 2017, Gargnano, Italy - Oral communication and poster
- International Congress of Young Chemists 2016, Częstochowa, Poland - Oral communication, Audience Award

SKILLS

- Excellent knowledge of organic synthesis and purification techniques. Experience in synthesis of organic compounds from 1 kg to 1 mg scale. Knowledge in biocatalysis, flow chemistry, electrochemistry, and enzymatic synthesis.
- Excellent knowledge of analysis and characterization techniques (NMR, HPLC, LCMS, UV vis, ESI-MS, DART, IR, Polarimeter).
- Excellent knowledge of software for data elaboration, prediction and communication (ChemBioOffice, National Instruments LabView, Topspin, MestreNova, ACD, Reaxys, SciFinder, Synthia).
- Experience in scientific writing and peer-reviewing.
- Leadership and coordination of small groups.
- Teamwork, good communications skills, and experience in working in multicultural environments

LANGUAGES

- Italian (Native)
- English (Advanced)
- French (Advanced)
- German (Intermediate)
- Dutch (Intermediate)
- Spanish (Basic)