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## MARIA CHIARA di GREGORIO

### CURRENT EMPLOYMENT

**July 2019:** Research Associate at the Department of Molecular Chemistry and Materials Science, Weizmann Institute of Science (Rehovot, Israel) in the group of Prof. Milko Erik van der Boom.

### PREVIOUS EMPLOYMENT

**May 2015 – May 2019:** Postdoctoral fellow at the Department of Organic Chemistry, Weizmann Institute of Science (Rehovot, Israel). Supervisor: Prof. Milko Erik van der Boom.

**January 2015 – April 2015:** Visiting scientist at the laboratory of Prof. Luciano Galantini, "Sapienza" University (Rome, Italy)

### EDUCATION

**November 2011 – December 2014:** Ph.D. in Chemical Sciences at the Doctoral School "V. Volterra", "Sapienza" University (Rome, Italy).

Dissertation title: Self-assembly characterization and applications of bile salt derivatives  
Supervisor: Prof. Luciano Galantini

**November 2012; February - April 2013; November 2013 - May 2014:** Visiting PhD student at the laboratory of Prof. Gil Markovich, School of Chemistry, Tel Aviv University, Tel Aviv, Israel. Research project: Study of chiroptical effects induced by interaction of chiral molecules and plasmonic nanostructures.

**December 2012 - January 2013:** Visiting PhD student at the laboratory of Prof. Oren Regev, Chemical Engineering Department, Ben-Gurion University of the Negev, Be'er Sheva, Israel. Research project: Characterization of bile salt derivative based catanionic mixtures.

**October 2009 - July 2011:** M.Sc. in Chemistry at Department of Chemistry, "Sapienza" University (Rome, Italy). Final grade: 110/110 *cum laude*

Dissertation title: Self-assembly properties of bile salt derivatives  
Supervisor: Prof. Luciano Galantini

**October 2006 - September 2009:** Bachelor in Chemistry at Department of Chemistry, "Sapienza" University (Rome, Italy). Final grade: 110/110 *cum laude*

**September 2001 - July 2006:** High school specializing in Classical Studies "Gabriele D'Annunzio" (Pescara, Italy). Final grade: 100/100

## RESEARCH FIELDS

Crystal engineering, metal-organic frameworks, solid-state inorganic chemistry, soft matter, plasmonic systems: design, synthesis, characterization and applications

Spectroscopy techniques: small angle X-ray scattering, light scattering, circular dichroism, powder X-ray diffraction, UV-vis absorption, fluorescence.

Microscopy techniques: transmission electron microscopy and scanning electron microscopy

## PRIZES

*1. Feinberg Graduate School prize for outstanding achievement in postdoctoral research 2018*

Prize awarded by the Weizmann Institute of Science

*2. ACS Langmuir prize for best oral presentation of young scientist*

32<sup>th</sup> Conference of the European Colloid and Interface Society, September 2018, Ljubljana (Slovenia).

*3. ACS Langmuir prize for best oral presentation of young scientist*

30<sup>th</sup> Conference of the European Colloid and Interface Society, September 2016, Rome (Italy).

*4. Award for best oral presentation*

Israel Vacuum Society -Material Research Society Student Conference 2018, Weizmann Institute of Science, May 2018, Rehovot (Israel).

*5. Boehringer Ingelheim Stiftung award*

Selected to contribute a lecture at the 14<sup>th</sup> International Symposium on Macrocyclic and Supramolecular Chemistry, June 2019, Lecce (Italy).

*6. Best Sci-Art Award*

Israel Vacuum Society -Material Research Society Student Conference 2016, Weizmann Institute of Science, June 2016, Rehovot (Israel).

*7. Selected by the European Colloids and Interface Society to contribute a lecture at the 26<sup>th</sup> Conference of the European Colloid and Interface Society, September 2012, Malmo (Sweden).*

## FELLOWSHIPS

2019 - Program for Young Researchers "Rita Levi Montalcini"

Awarded from the Italian Ministry of University and Research

2017 – 2019 Postdoctoral fellowship

Awarded from Weizmann Institute of Science, Department of Organic Chemistry

- 2015 – 2017 Dean Fellowship  
Awarded from Weizmann Institute of Science for postdoctoral position at  
the Department of Organic Chemistry
- 2011 – 2014 Doctoral fellowship  
Department of Chemistry, “Sapienza” University of Rome

## LANGUAGE SKILLS

Native Italian. Fluent in English. Hebrew, Ulpan level - kita bet

## PUBLICATIONS

§ equal contribution, \* corresponding author

*1. Directing both the Morphology and Packing of Chiral Metal-Organic Frameworks by Cation Exchange Mediated by Nanochannels*

H. Nasi, M. C. di Gregorio, W. Qiang, L. J. W. Shimon, I. Kaplan-Ashiri, T. Bendikov, M. Lahav, M. E. van der Boom, *submitted*

Preprint available on ChemRxiv DOI 10.33774/chemrxiv-2021-brq1h

*2. Chiral Motifs in Interpenetrated Metal-Organic Frameworks Formed from Achiral Tetrahedral Ligands*

W. Qiang, M. C. di Gregorio, L. J. W. Shimon, E. V. Alexandrov, D. M. Prosepro, M. Lahav, M. E. van der Boom, *submitted*

Preprint available on ChemRxiv DOI 10.33774/chemrxiv-2021-bf301

*3. Revealing the Complex Self-Assembly Behaviour of Sodium Deoxycholate in Aqueous Solution.*

A. Jover Ramos, F. Fraga López, F. Mejjide del Río, J. Vázquez Tato, J. Cautela, A. del Giudice, M. C. di Gregorio, *J. Colloid Interface Sci.*, **2021**, 604, 415-428

*4. Physiology and Physical Chemistry of Bile Acids*

M. C. di Gregorio,\* J. Cautela, L. Galantini,\* *Int J Mol Sci*, **2021**, 22, 1780

*5. Molecular Cannibalism: Sacrificial Materials as Precursors for Hollow and Multidomain Single Crystals*

M. C. di Gregorio, M. Elsousou, Q. Wen, L. J. W. Shimon, V. Brumfeld, L. Houben, M. Lahav, M. E. van der Boom, accepted in *Nat Commun.* **2021**, 12, 957

Highlighted in Nature Communications as Editor's choice, Nature Chemistry social media.

*6. Emergence of Chirality and Structural Complexity in Single Crystals at the Molecular and Morphological Levels*

M. C. di Gregorio, L. J. W. Shimon, V. Brumfeld, L. Houben, M. Lahav, M. E. van der Boom, *Nat Commun*, **2020**, 11, 380

Highlighted in Nature Communications as Editor's choice, ChemistryWorld Magazine (Royal Chemistry Society), ChemViews Magazine (ChemPubSoc Europe), [C<sub>2</sub>W] Magazine (Royal Netherlands Chemical Society), Nature Chemistry social media, AlphaGalileo, Nanowerk: Nanotechnology News, Phys.org

7. *C-12 vs C-3 Substituted Bile Salts: An Example of the Effects of Substituent Position and Orientation on the Self-Assembly of Steroid Surfactant Isomers*

J. Cautela,<sup>§</sup> E. Severoni,<sup>§</sup> C. Redondo-Gómez,<sup>§</sup> M. C. di Gregorio, A. Del Giudice, S. Sennato, R. Angelini, K. Schillén, L. Galantini, *Colloids Surf. B*, **2020**, 185, 110556.

8. *Deoxycholic Acid and L-Phenylalanine Enrich their Hydrogel Properties when Combined in a Zwitterionic Derivative*

L. Travaglini,<sup>§</sup> M. C. di Gregorio,<sup>§\*</sup> E. Severoni, A. D'Annibale, S. Sennato, F. Tardani, M. Giustini, M. Gubitosi, A. Del Giudice, L. Galantini,<sup>\*</sup> *J. Colloid Interface Sci.*, **2019**, 554, 453-462

9. *Bile Salts: Natural Surfactants and Precursors of a Broad Family of Complex Amphiphiles*

M. C. di Gregorio,<sup>§</sup> L. Travaglini,<sup>§</sup> J. Cautela, A. Del Giudice, N. V. Pavel, L. Galantini, *Langmuir*, **2019**, 35, 21, 6803-6821.

Highlighted as front cover

10. *Metal-Coordination-Induced Fusion Creates Hollow Crystalline Molecular Superstructures*

M. C. di Gregorio, P. Ranjan, L. Houben, L. J. W. Shimon, K. Rechav, M. Lahav, M. E. van der Boom, *J. Am. Chem. Soc.*, **2018**, 140, 9132–9139.

Highlighted as supplementary cover

11. *Bile Acid Derivative-Based Catanionic Mixtures: Versatile Tools for Superficial Charge Modulation of Supramolecular Lamellae and Nanotubes*

M. C. di Gregorio,<sup>§</sup> E. Severoni,<sup>§</sup> L. Travaglini, M. Gubitosi, S. Sennato, F. Mura, C. Redondo-Gómez, A. Jover, N. V. Pavel, L. Galantini (<sup>§</sup> equal contribution), *Phys. Chem. Chem. Phys.*, **2018**, 20, 18957-18968.

Highlighted as hot paper

12. *Twisted Nanoribbons from a RGD-Bearing Cholic Acid Derivative*

L. Travaglini, C. Giordano, A. D'Annibale, M. Gubitosi, M. C. di Gregorio, K. Schillén, A. Stefanucci, A. Mollica, N. V. Pavel, L. Galantini, *Colloids Surf. B*, **2017**, 159, 183-190

13. *Supramolecular Assembly of Thermoresponsive Steroidal Surfactant with Oppositely Charged Thermoresponsive Block Copolymer*

M. C. di Gregorio, M. Gubitosi, L. Travaglini, N. V. Pavel, A. Jover, F. Meijide, J. Vázquez Tato, S. Sennato, K. Schillén, F. Tranchini, S. De Santis, G. Masci, L. Galantini, *Phys. Chem. Chem. Phys.*, **2017**, 19, 1504-1515.

14. *Crystal Structure of a Lithium Salt of a Glucosyl Derivative of Lithocholic Acid*

M. Gubitosi, F. Meijide, J. Vázquez Tato, A. Jover, L. Travaglini, A. D'Annibale, M. C. di Gregorio, N. V. Pavel, L. Galantini, *Steroids*, **2016**, 113, 87-94.

15. *Bile Salts and Derivatives: Rigid Unconventional Amphiphiles as Dispersants, Carriers and Superstructure Building Blocks*

L. Galantini, M. C. di Gregorio, M. Gubitosi, L. Travaglini, J. Vázquez Tato, A. Jover, F. Meijide, V. H. Soto Tellini, N. V. Pavel, *Curr. Opin. Colloid Interface Sci.*, **2015**, 20,170-182.

16. *Chiroptical Study of Plasmon-Molecule Interaction: The Case of Interaction of Glutathione with Silver Nanocubes*

M. C. di Gregorio, A. Ben Moshe, E. Tirosh, L. Galantini, G. Markovich, *J. Phys. Chem. C*, **2015**, 119, 17111-17116.

17. *Tailoring Supramolecular Nanotubes by Bile Salt Based Surfactant Mixtures*

M. Gubitosi, L. Travaglini, M. C. di Gregorio, N. V. Pavel, J. Vazquez Tato, S. Sennato, U. Olsson, K. Schillén, L. Galantini, *Angew. Chem. Int. Ed.*, **2015**, 54, 7018-7021.

18. *Multi Stimuli Response of a Single Surfactant Presenting a Rich Self-Assembly Behavior*

M. C. di Gregorio, M. Varenik, M. Gubitosi, L. Travaglini, N. V. Pavel, A. Jover, F. Meijide, O. Regev, L. Galantini, *RSC Adv.*, **2015**, 5, 37800-37806.

19. *A Tryptophan-Substituted Cholic Acid: Expanding the Family of Labelled Biomolecules*

L. Travaglini, M. Gubitosi, M. C. di Gregorio, A. D'Annibale, F. Meijide, M. Giustini, S. Sennato, M. Obiols-Rabasa, K. Schillén, N. Viorel Pavel, L. Galantini, *Colloids Surf. A*, **2015**, 483, 142–149.

20. *On the Self-Assembly of a Tryptophan Labeled Deoxycholic Acid*

L. Travaglini, M. Gubitosi, M. C. di Gregorio, N. V. Pavel, A. D'Annibale, M. Giustini, V. H. Soto Tellini, J. Vázquez Tato, M. Obiols-Ravasa, S. Bayati, L. Galantini, *Phys. Chem. Chem. Phys.*, **2014**, 16, 19492-504.

21. *Self-Aggregation Mechanism of a Naphtylamide Cationic Derivative of Cholic Acid. From Fibrils to Tubules*

J. V. Trillo, F. Meijide, A. Jover, V. Soto, S. de Frutos, M. C. di Gregorio, L. Galantini, J. Vázquez Tato, *RSC Adv.*, **2014**, 4, 5598-5606.

22. *Catanionic Gels Based on Cholic Acid Derivatives*

M. C. di Gregorio, N. V. Pavel, J. Miragaya, A. Jover, F. Meijide, J. Vázquez Tato, V. H. Soto Tellini, L. Galantini, *Langmuir*, **2013**, 29, 12342-12351.

23. *Between Peptides and Bile Acids: Self-Assembly of Phenylalanine Substituted Cholic Acids*

L. Travaglini, A. D'Annibale, M. C. di Gregorio, K. Schillén, U. Olsson, S. Sennato, N.V. Pavel, L. Galantini, *J. Phys. Chem. B*, **2013**, 117, 9248–9257.

24. *pH Sensitive Tubules of a Bile Acid Derivative: A Tubule Opening by Release of Wall Leaves*

M. C. di Gregorio, N. V. Pavel, A. Jover, F. Meijide, J. Vazquez Tato, V. H. Soto Tellini, A. Alfaro Vargas, O. Regev, Y. Kasavi, K. Schillén, L. Galantini, *Phys. Chem. Chem. Phys.*, **2013**, *15*, 7560-7566.

25. *Drug-Loaded Nanoparticles and Supramolecular Nanotubes Formed from a Volatile Microemulsion with Bile Salt Derivatives*

K. Margulis-Goshen, M. C. di Gregorio, N. V. Pavel, L. Abezgauz, D. Danino, J. Vázquez Tato, V. H. Soto Tellini, S. Magdassi, L. Galantini, *Phys. Chem. Chem. Phys.*, **2013**, *15*, 6016-6024.

## DATA BASE LINKS FOR BIBLIOMETRIC INDEXES

**ResearcherID:** G-2536-2019

**Google Scholar:** For details, click link: [publication details](#)

**Scopus:** For details, click link: [publication details](#)

Scopus indexes: h-index: 13 Citations (from 2013): 406 Documents: 23

## PATENTS

1. *Metal-organic materials and method for preparation*

Patent number: 9707540

Date of Patent: July 18, 2017

Assignee: YEDA RESEARCH AND DEVELOPMENT CO. LTD.

Inventors: Milko E. Van Der Boom, Michal Lahav, Shira Hamami, Maria Chiara Di Gregorio, Qiang Wen, Sreejith Shankar Poopanal

2. *Metal-Organic Materials and Method for Preparation*

Publication Number: 20160271582

September 22, 2016

Applicant: YEDA RESEARCH AND DEVELOPMENT CO. LTD.

Inventors: Milko E. van der Boom, Michal Lahav, Shira Hamami, Maria Chiara di Gregorio, Qiang Wen, Sreejith Shankar Poopanal

## CONFERENCES:

### Oral contributions

1. *Size and Morphology Modulation of Free-Additive Metal-Organic Frameworks*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, The 84<sup>th</sup> Annual Meeting of the Israel Chemical Society, February 2019, Tel Aviv (Israel)

2. *Control over Morphology and Complexity of Metal Organic Frameworks*

M. C. di Gregorio, M. Elsousou, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, **selected keynote**, 32<sup>th</sup> Conference of the European Colloid and Interface Society, September 2018, Ljubljana (Slovenia).

*3. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, IVS-MRS Student Conference, Weizmann Institute of Science, May 2018, Rehovot (Israel).

*4. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, Applied Nanotechnology and Nanoscience International Conference, October 2017, Rome (Italy).

*5. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, M. Lahav, M. E. van der Boom, flash presentation, European-Winter School on Physical Organic Chemistry, January 2017, Bressanone (Italy).

*6. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, M. Lahav, M. E. van der Boom, 30<sup>th</sup> Conference of the European Colloid and Interface Society, September 2016, Rome (Italy).

*7. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, Retreat of the Organic Chemistry Department of Weizmann Institute, April 2016, Kfar Blum (Israel).

*8. Catanionic Gels Based on Cholic Acid Derivatives*

M. C. di Gregorio, N. V. Pavel, F. Meijide, A. Jover, J. Vázquez Tato, J. Miragaya, and V. H. Soto Tellini, Luciano Galantini, 28<sup>th</sup> Conference of the European Colloid and Interface Society, September 2014, Limassol (Cyprus).

*9. pH Sensitive Tubules of Bile Acid Derivative: A New Mechanism of Tubule Opening*

M. C. di Gregorio, N. V. Pavel, A. Jover, F. Meijide, J. Vázquez Tato, V. H. Soto Tellini, A. Alfaro Vargas, O. Regev, Y. Kasavi, K. Schillén, L. Galantini, 26<sup>th</sup> Conference of the European Colloid and Interface Society, September 2012, Malmo (Sweden).

**Poster contributions**

*1. From Achiral to Chiral: Shaping of Uniform Crystals*

di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, and M. E. van der Boom, Symposium commemorating G. M. J. Schmidt's 100<sup>th</sup> birthday anniversary: Contemporary Crystal Engineering and Solid-State Chemistry, October 2019, Rehovot (Israel)

*2. From Achiral to Chiral: Shaping of Uniform Crystals*

di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, and M. E. van der Boom, 14<sup>th</sup> International Symposium on Macrocyclic and Supramolecular Chemistry, June 2019, Lecce

*3. Highly Versatile Metal-Organic Frameworks*

di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, and M. E. van der Boom, The 4<sup>th</sup> ERC Grantees Conference, From supramolecular towards systems chemistry, November 2018, Rehovot (Israel)

*4. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, L. J.W. Shimon, L. Houben, V. Brumfeld, M. Lahav, and M. E. van der Boom, IVS 2017 35th Annual Conference & Workshop, September 2017, Rehovot (Israel)

*5. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, P. Ranjan, L. J. W. Shimon, L. Houben, K. Rechav, M. Lahav, M. Erik van der Boom, IVS-MRS Student Conference, June 2016, Rehovot (Israel).

*6. Metal-Organic Frameworks as Tools for Complex Crystal Design: Controlled Synthesis and Mechanistic Insights*

M. C. di Gregorio, P. Ranjan, L. Houben, K. Rechav, M. Lahav, M. E. van der Boom, retreat of the Organic Chemistry Department of Weizmann Institute, April 2016, Kfar Blum (Israel)

*7. Metal-Organic Frameworks as Tools for Complex Crystal Design: Controlled Synthesis and Mechanistic Insights*

M. C. di Gregorio, P. Ranjan, L. Houben, K. Rechav, M. Lahav, M. E. van der Boom, Weizmann-Alberta Nanoscience Meeting, March 2016, Rehovot (Israel).

*8. Catanionic Gels Based on Cholic Acid Derivatives*

M. C. di Gregorio, N. V. Pavel, F. Meijide, A. Jover, J. Vázquez Tato, J. Miragaya, and V. H. Soto Tellini, L. Galantini, International Soft Matter Conference, September 2013, Rome (Italy).

*9. pH Sensitive Tubules of Bile Acid Derivative: A New Mechanism of Tubule Opening*

M. C. di Gregorio, N. V. Pavel, A. Jover, F. Meijide, J. Vázquez Tato, V. H. Soto Tellini, A. Alfaro Vargas, O. Regev, Y. Kasavi, K. Schillén, L. Galantini, 5<sup>th</sup> Young Researcher Conference, June 2012, Rome (Italy).

## **INVITED TALKS AND SEMINARS**

*1. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, German-Israeli Foundation for Scientific Research and Development Young Scientists' Meeting "Synthesis and Catalysis: the Key for a Better Environment, Medicine and Materials", Ma'ale Hahamisha (Israel), 2021.

*2. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, Tel Aviv University, School of Chemistry, Physical Chemistry Seminar, February 2020, Tel Aviv (Israel).

*3. Colloidal “Chemical Toolkits”*

M. C. di Gregorio, Selected Topics in Science and Technology Symposium, Technische Universität München (TUM) and TUM Institute for Advanced Study (TUM-IAS), January 2020, Munich (Germany).

*4. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, Ben-Gurion University of the Negev, Department of Chemistry, January 2020, Be'er Sheva (Israel).

*5. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, Technion - Israel Institute of Technology, Department of Chemistry, January 2020, Haifa (Israel).

*6. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, L. J. W. Shimon, L. Houben, V. Brumfeld, M. Lahav, M. E. van der Boom, 8<sup>th</sup> Young Researcher Conference, Sapienza University, June 2019, Rome (Italy).

*7. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, University of Groningen, Stratingh Institute for Chemistry, June 2019, Groningen (Netherlands).

*8. Size, Morphology and Assembly Modulation of Metal-Organic Crystals*

M. C. di Gregorio, Tel Aviv University, School of Chemistry, Organic Chemistry Seminar, May 2019, Tel Aviv (Israel).

*9. Metal-Organic Crystals: Shaping, Uniformity and Symmetry Breaking*

M. C. di Gregorio, University of Montpellier, Laboratoires Charles Coulomb, April 2019, Montpellier (France).

*10. Size, Morphology and Assembly Modulation of Metal-Organic Crystals*

M. C. di Gregorio, Ariel University, Department of Chemistry, January 2019, Ariel (Israel).

*11. Size, Morphology and Assembly Modulation of Metal-Organic Crystals*

M. C. di Gregorio, Technion - Israel Institute of Technology, Department of Chemistry, December 2018, Haifa (Israel).

*12. Size, Morphology and Assembly Modulation of Metal-Organic Crystals*

M. C. di Gregorio, Ben-Gurion University of the Negev, Department of Chemistry, November 2018, Be'er Sheva (Israel).

*13. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, Electron Microscopy Unit of Weizmann Institute of Science, January 2018, Rehovot (Israel).

*14. Highly Versatile Metal-Organic Frameworks*

M. C. di Gregorio, meeting with the delegation of the Italy/ Israel GreenMed Summit (event organized by the Italian Ministry of Foreign Affairs and International Cooperation) September 2017, Rehovot (Israel).

*15. Stimuli Responsive and Catanionic Bile Salt-Based Systems*

M. C. di Gregorio, Encuentro de Envesigation de Quimica Supramolecular Italia-Costa Rica, October 2013, Universidad de Costa Rica, San José (Costa Rica).

**INVITED SCIENTIFIC VISITS**

October 2017 and January 2022: Department of Chemistry & Molecular Design Institute, New York University, USA

**SCHOOLS**

European-Winter School on Physical Organic Chemistry, January 2017, Brixen (Italy)