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PRIZES/DISTINCTIONS

2017 Secrétaire du Groupe Français de Photochimie, Photophysique et Photosciences, Division Chimie Physique, Société Chimique de France

2008 Bronze medal CNRS (Physical chemistry); early stage researcher award

2008 Finalist- researcher of the year "Nouvel Economiste" magazine.

2007 European young researcher award (ERC StG)

2005 CERC3 award

RESEARCH INTERESTS:- Current research interests focus upon design and synthesis of inorganic and organic photoactive supramolecular systems involving:- photoinduced electron transfer, electronic energy transfer, molecular recognition/switches/sensors, hydrogen-bonding, photochemical transformations. Systems under investigation include: nanoparticles, lanthanide chelates, transition metal complexes, fullerenes, photochromes, NIR fluorophores. Characterisation of photophysical properties typically reposes on steady-state and dynamic fluorescence spectroscopy, laser flash photolysis and time-correlated single-photon-counting spectrometry.

RESEARCH PROJECTS:- Coordinator of projets with a financement totalling circa. 3 megaEuros (ERC, Marie-Curie IF, ANR, Region Aquitaine, C'Nano GSO, GALILEE; PESSOA; CNRS, Idex PEPS; Université Bordeaux I- 2 Bonus Qualité Recherche projects a) Infrastructure; b) Bourse de Thèse, Cap Sciences, Marie-Curie IF). Participation in financed projects: Vinci, LabEx, TMR, PICASSO, ANR (FOSET, PET CAT, NO-SynthCell, RECODNA), Idex Emergence, COST Action (CM1304), Communauté Trans-Pyrénéenne (Aquitaine, Taragonne, Pays-Basque, Midi-Pyrénées), Marsden (New Zealand), France in Australia: 2016 Scientific Mobility programme; Idex-Bordeaux-Pays Basque.

COLLABORATIONS:- Several collaborative projects include partners in Ireland (Dublin), England (Birmingham, Southampton), Spain (Murcia, Barcelona, Pay-Basque), Italy (Bologna), France (Bordeaux, Grenoble), Portugal (Lisbon), New Zealand (Christchurch), Australia (Sydney), USA (Florida).

EDITORIAL & CONFERENCE ORGANISATION:-

- Editorial Board Member for "Scientific Reports", a multidisciplinary, online-only, open access publication covering all areas of the natural sciences from Nature Publishing Group, the publishers of Nature (IF=5.04).
- Section editor "Handbook of Inorganic Photochemistry", Springer-Nature.
- Guest editor special issue "Pure & applied chemistry"
- XXVth IUPAC Symposium on Photochemistry, co-chair local organizing committee
- International Conference on Phosphorus, Boron and Silicon 2017 (PBSI2017), Scientific Committee
- Section Editor, Springer-Nature "Handbook of Inorganic Photochemistry"
- Membre du Conseil d'Institut, Institut des Sciences Moléculaires
- Secrétaire du Groupe Français de Photochimie, Photophysique et Photosciences, Division Chimie Physique, Société Chimique de France

POSITIONS HELD

Oct 2013-present	Directeur de Recherche 2 ^{ème} classe au CNRS (UMR5255)
2003-2013	Chargé de Recherche au CNRS (UMR 5802 ; then UMR 5255)
Jan 2003-Oct 2003	Chargé de Recherche Associée au CNRS (UMR 5802); working in the framework of a European project entitled "Fulltech: Fullerene Based Self-Assembled Nanotechnology"
Nov 2001- Dec 2002	Post-doctoral fellowship at the Laboratoire de Chimie Organique et Organométallique, Université de Bordeaux I (UMR 5802; with Dr. D. Bassani; Director Prof. J.-P. Desvergne), developing supramolecular systems incorporating fullerenes and hydrogen-bonding units
Feb 2000 – Nov 2001	European post-doctoral fellowship in TMR framework "Nanometre-sized metal complexes with predetermined configurations and functions for light-energy conversion" Università di Messina, Dipartimento di Chimica Inorganica, Chimica Analitica e Chimica Fisica, Laboratorio di Fotochimica, via Sperone 31, I-98166, Messina, Italy. Network coordinator: Professor S. Campagna

EDUCATION/DIPLOMAS

2007	<i>Habilitation à Diriger des Recherches</i> Université Bordeaux I, France
1996-99	Ph.D. thesis entitled " <i>Molecular Logic Systems</i> " School of chemistry, The Queen's University of Belfast N. Ireland. Supervisor: Professor A.P. de Silva.
1992-95	B.Sc. Hons. Degree in Chemistry (First Class Honours) School of Chemistry, The Queen's University of Belfast, N. Ireland. Research project: " <i>Ring-opening olefin metathesis polymerisation reactions</i> " (supervisor: Prof. J.J. Rooney).

RESEARCH VISITS

Nov 2006, Oct 2005	Hosting photoactive supramolecular systems in nanostructured materials Cordoba with Dr. F.J. Romero-Salguero (University of Cordoba)
July 2003	Ultrafast time-resolved photophysical measurements on electron donor-acceptor systems with Prof. L. De Cola (University of Amsterdam)
Oct 2001	Synthesis of sterically congested Ru(II)- and Os(II)-polypyridine complexes with Prof. A. Juris (University of Bologna)
Aug 2001	Research stay in the lab. of Prof. F. Barigelletti (CNR-FRAE, Bologna), performing time-resolved photophysical measurements
Jan 2001	Research stay in the lab. of Prof. J.M. Kelly (Trinity College, Ireland) studying the interaction of some novel photoactive complexes with DNA
June-Sept 1994	IASTE placement in the Institut für Anorganische Chemie der Universität, Leipzig, Germany. "Synthesis and characterisation of air-sensitive metallocene compounds". Supervisor: Prof. E. Hey-Hawkins

PUBLICATIONS:

- 97 L. Beauté, N. McClenaghan, S. Lecommandoux
“Photo-triggered polymer nanomedicines: From molecular mechanisms to therapeutic applications”
Advanced Drug Delivery Reviews, accepted.
- 96 J. De Tovar, N. Romero, S. Denisov, R. Bofill, C. Gimbert-Suriñach, D. Ciuculescu-Pradines, S. Drouet, A. llobet, P. Lecante, Z. Freixa, N. McClenaghan, C. Amiens, J. García-Antón, K. Philippot, X. Sala
“Light-driven water oxidation using hybrid photosensitizer-decorated Co₃O₄ nanoparticles”
Materials Today Energy, **2018**, *9*, 506–515.
- 95 A. Roux, M. Isaac, V. Chabert, S. A. Denisov, N. D. McClenaghan, O. Sénèque
“Influence of Amino Acid Sequence in a Peptidic Cu⁺-Responsive Luminescent Probe Inspired by the Copper Chaperone CusF”
Org. & Biomol. Chem., **2018**, *16*, 5626-5634.
- 94 J. C. Spiteri, A. D. Johnson, S. A. Denisov, G. Jonusauskas, N. D. McClenaghan, D. C. Magri
“A fluorescent AND logic gate based on a ferrocene-naphthalimide-piperazine format responsive to acidity and oxidizability”
Dyes & Pigments, **2018**, *157*, 278–283. (invited)
- 93 A. Tron, N. D. McClenaghan, *Actualité Chimique*, 2018, N° 430-431 (Juin–Août) p. 68-72.
- 92 J. C. Spiteri, S. A. Denisov, G. Jonusauskas, S. Klejna, K. Szaciłowski, N. D. McClenaghan, D. C. Magri
“Molecular engineering of logic gate types by module rearrangement in ‘Pourbaix Sensors’: the effect of excited-state electric fields”
Org. & Biomol. Chem., **2018**, *16*, 6195-6201. (Front cover)
- 91 M. La Rosa, S. A. Denisov, G. Jonusauskas, N. D. McClenaghan, A. Credi
“Designed long lived emission from CdSe quantum dots by reversible electronic energy transfer with a surface bound chromophore”
Angew. Chem. Int. Ed., **2018**, *57*, 3104–3107.
- 90 L. Pisciotanni, M. Douarre, B. Bibal, C. Davies, H. Roberts, B. Kauffmann, S. L. Horswell, J. H. R. Tucker, N. D. McClenaghan
“Macrocyclic Hamilton-type Receptors Comprising a Ferrocene Pivot”
Supramol. Chem., **2018**, *30*, 869-875.
- 89 G. Raffy, R. Bofinger, A. Tron, A. Del Guerso, N. D. McClenaghan, J.-M. Vincent
“2D and 3D surface photopatterning via laser-promoted homopolymerization of a perfluorophenyl azide-substituted BODIPY”
Nanoscale, **2017**, *9*, 16908 - 16914.
- 88 V. Ibrahimova, S. A. Denisov, K. Vanvarenberg, P. Verwilt, V. Préat, J.-M. Guigner, N. D. McClenaghan, S. Lecommandoux, C.-A. Fustin
“Photosensitizer Localization in Amphiphilic Block Copolymers Controls Photodynamic Therapy Efficacy”
Nanoscale, **2017**, *9*, 11180 - 11186.
- 87 A. Peyret, E. Ibarboure A. Tron, L. Beauté, R. Rust, O. Sandre, N. McClenaghan, S. Lecommandoux
“Photon-triggered polymersome rupture under temporal, spatial and spectral control”
J. Control. Release, **2017**, *259*, e8–e9.
- 86 A. Lavie-Cambot, A. Tron, A. Ducrot, F. Castet, Brice Kauffmann, L. Beauté, H. Allouchi, J.-L. Pozzo, C. S. Bonnet, N. D. McClenaghan
“Synthetic water soluble di-/tritopic molecular receptors exhibiting Ca²⁺/Mg²⁺ exchange”
Org. & Biomol. Chem., **2017**, *15*, 4367–4374.
- 85 C. Li, S. Novak, S. A. Denisov, N. D. McClenaghan, N. Patel, A. Agarwal, K. Richardson, W. Deng
“Electrospray deposition of quantum dot-doped Ge₂₃Sb₇S₇₀ chalcogenide glass films”
Thin Solid Films, **2017**, *626*, 194–199.
- 84 A. Tron, I. Pianet, A. Martinez-Cuezva, J. H. R. Tucker, L. Pisciotanni, M. Alajarin, J. Berná, N. D. McClenaghan

- “Remote Photoregulated Ring Gliding in a [2]Rotaxane via a Molecular Effector”
Org. Lett., **2017**, *19*, 154 – 157.
- 83 A. Peyret, E. Ibarboure, A. Tron, L. Beauté, R. Rust, O. Sandre, N. D. McClenaghan, S. Lecommandoux
“Polymersome rupture by light-induced osmotic shock under temporal, spatial and spectral control”,
Angew. Chem. Int. Ed., **2017**, *56*, 1566–1570. (*Hot paper, Inside Back Cover*)
- 82 X. Li, N. Markandeya, G. Jonusauskas, N. D. McClenaghan, V. Maurizot, S. A. Denisov, I. Huc
“Photoinduced electron transfer and hole migration in nanosized helical aromatic oligoamide foldamers”
J. Am. Chem. Soc. **2016**, *138*, 13568 – 13578.
- 81 R. Beniazza, R. Atkinson, C. Absalon, F. Castet, S. A. Denisov, N. D. McClenaghan, D. Lastécouères, J.-M. Vincent
“Benzophenone vs Copper/Benzophenone in Light-Promoted ATRAs: Highly Effective Iodoperfluoroalkylation of Alkenes/Alkynes and Mechanistic Studies”
Adv. Synth. & Catalysis. **2016**, *358*, 2949 – 2961.
- 80 A. D. Johnson, K. A. Paterson, J. C. Spiteri, S. A. Denisov, G. Jonusauskas, A. Tron, N. D. McClenaghan, D. C. Magri
“Water-soluble naphthalimide-based ‘Pourbaix Sensors’: pH and redox-activated fluorescent AND logic gates based on photoinduced electron transfer”
New J. Chem., **2016**, *40*, 9917 – 9922. (Front Cover Story).
- 79 J. Pérez-Miqueo, A. Altube, E. García-Lecina, A. Tron, N. D. McClenaghan, Z. Freixa
“Photoswitchable azobenzene-appended iridium(III) complexes”
Dalton Trans., **2016**, *45*, 13726 – 13741.
- 78 A. Tron, A. Peyret, J. Thevenot, R. Bofinger, S. Lecommandoux, N. D. McClenaghan
“A Prototype Reversible Polymersome-Stabilized H₂S Photoejector Operating Under Pseudophysiological Conditions”
Org. & Biomol. Chem. **2016**, *14*, 6394 – 6397.
- 77 S. A. Denisov, F. Pinaud, M. Chambaud, V. Lapeyre, B. Catargi, N. Sojic, N. D. McClenaghan, V. Ravaine
“Saccharide-induced modulation of photoluminescence lifetime in microgels”
Phys. Chem. Chem. Phys. **2016**, *18*, 16812 – 16821.
- 76 S. Medina-Rodriguez, S. A. Denisov, Y. Cudré, L. Male, M. Marin-Suarez, A. Fernández-Gutiérrez, J. Fernando Fernández-Sánchez, A. Tron, G. Jonusauskas, N. D. McClenaghan, E. Baranoff
“High performance optical oxygen sensors based on nanostructured films incorporating bichromophoric iridium complexes exhibiting interchromophore energy shuttling”
Analyst, **2016**, *141*, 3090 – 3097.
- 75 S. Denisov, S. Yu, G. Jonusauskas, J.-L. Pozzo, N. D. McClenaghan
“Harnessing Reversible Electronic Energy Transfer : From Molecular Dyads to Molecular Machines”
ChemPhysChem, **2016**, *17*, 1794 – 1804.
- 74 A. Tron, S. Gago, N. D. McClenaghan, A. J. Parola, F. Pina
“A Blue 4',7-Diaminoflavylum Cation Showing an Extended pH Range Stability”
Phys. Chem. Chem. Phys., **2016**, *18*, 8920 – 8925
- 73 S. A. Denisov, Q. Gan, X. Wang, L. Scarpantonio, Y. Ferrand, B. Kauffmann, G. Jonusauskas, I. Huc, N. D. McClenaghan
“Electronic Energy Transfer Modulation in a Dynamic Foldaxane: Proof-of-Principle of a Lifetime-Based Conformation Probe”
Angew. Chem. Int. Ed., **2016**, *55*, 1328 – 1333.
- 72 A. Tron, P. Thornton, B. Kauffmann, J.H.R. Tucker, N. D. McClenaghan
“[2]Rotaxanes comprising a macrocyclic Hamilton receptor obtained using active template synthesis: Synthesis and guest complexation”
Supramol. Chem., **2016**, *28*, 733 – 741.
- 71 M. Isaac, S. A. Denisov, A. Roux, D. Imbert, G. Jonusauskas, N. D. McClenaghan, O. Sénèque

- "Lanthanide Luminescence Modulation via Cation- π Interaction in a Bioinspired Scaffold: Selective Detection of Copper(I)"
Angew. Chem. Int. Ed. **2015**, *54*, 11453 – 11456.
- 70 J.-M. Vincent, R. Beniazza, N. Bayo, F. Molton, C. Duboc, S. Massip, N. McClenaghan, D. Lastécouères
"Effective ascorbate-free and photolabile "click" reactions in water using a photoreducible copper(II) ethylenediamine precatalyst"
Beilstein J. Org. Chem., **2015**, *11*, 1950 – 1959.
- 69 V. Lebrun, A. Tron, C. Lebrun, J.-M. Latour, N. D. McClenaghan, O. Sénèque
"Reactivity of a Zn(Cys)₂(His)₂ Zinc Finger with Singlet Oxygen: Oxidation is Directed toward Cysteines but not Histidines"
Chem. Eur. J. **2015**, *21*, 14002 – 14010.
- 68 R. Beniazza, F. Molton, C. Duboc, A. Tron, N. D. McClenaghan, D. Lastécouères, J.-M. Vincent
"Copper(I)-photocatalyzed trifluoromethylation of alkenes"
Chem. Commun., **2015**, *51*, 9571 – 9574.
- 67 A. Tron, H.-P. Jacquot de Rouville, A. Ducrot, J. H. R. Tucker, M. Baroncini, A. Credi, N. D. McClenaghan
"Photodriven [2]Rotaxane-[2]Catenane Interconversion"
Chem. Commun., **2015**, *51*, 2810 – 2813. (Special issue)
- 66 B. Doistau, C. Rossi-Gendron, A. Tron, N. D. McClenaghan, L.-M. Chamoreau, V. Marvaud, B. Hasenknopf, G. Vives
"Switchable Platinum-based Tweezers with Pt-Pt Bonding and Selective Luminescence Quenching"
Dalton Trans., **2015**, *44*, 8543 – 8551. (Special issue)
- 65 A. Tron, M. Rocher, P.J. Thornton, J.H.R. Tucker, N. D. McClenaghan
"Supramolecular architectures incorporating hydrogen-bonding barbiturate receptors"
Asian J. Org. Chem., **2015**, *4*, 192 – 202. (Special issue: Molecular Devices and Machines. "Featured article").
- 64 A. Tron, P. J. Thornton, C. Lincheneau, J.-P. Desvergne, N. Spencer, J. H. R. Tucker, N. D. McClenaghan
"Reversible Photocapture of a [2]Rotaxane Harnessing a Barbiturate Template"
J. Org. Chem. **2015**, *80*, 988 – 996.
- 63 B. Doistau, A. Tron, S. A. Denisov, G. Jonusauskas, N. D. McClenaghan, G. Gontard, V. Marvaud, B. Hasenknopf, G. Vives
"Terpy(Pt-salphen)₂ Switchable Luminescent Molecular Tweezers"
Chem. Eur. J. **2014**, *20*, 15799 – 15807.
- 62 R. Beniazza, R. Lambert, L. Harmand, F. Molton, C. Duboc, S. Denisov, G. Jonusauskas, N. D. McClenaghan, D. Lastécouères, J.-M. Vincent
"Sunlight Driven Photoreduction of a Copper(II)-DMEDA Complex: In situ Formation of a Highly Reactive and Switchable Copper(I) Click Catalyst"
Chem. Eur. J. **2014**, *20*, 13181 – 13187. ("Hot paper")
- 61 V. Lebrun, A. Tron, L. Scarpantonio, C. Lebrun, J.-L. Ravanat, J.-M. Latour, N. D. McClenaghan, O. Sénèque
"Efficient Oxidation and Destabilization of Zn(Cys)₄ Zinc Fingers by Singlet Oxygen"
Angew. Chem. Int. Ed. **2014**, *53*, 9365 – 9368.
- 60 P. Batat, C. Grauby-Heywang, S. Selektor, D. Silantyeva, V. Arslanov, N. McClenaghan, G. Jonusauskas
"Artificial ionic- and photosensitive membranes based on an amphiphilic aza-crown substituted hemicyanine"
ChemPhysChem, **2014**, *15*, 2823 – 2833.
- 59 A. Tron, P. Thornton, M. Rocher, H.-P. Jacquot de Rouville, J.-P. Desvergne, B. Kauffmann, T. Buffeteau, D. Cavagnat, J. H. R. Tucker, N. D. McClenaghan
"Formation of a Hydrogen-bonded Barbiturate [2]-Rotaxane"
Org. Lett. **2014**, *16*, 1358 – 1361.

- 58 S. Denisov, Y. Cudré, P. Verwilt, G. Jonusauskas, M. Marin-Suárez, J. Fernandez-Sanchez, E. Baranoff, N. D. McClenaghan
"Direct observation of reversible electronic energy transfer involving an iridium centre"
Inorg. Chem. **2014**, *53*, 2677 – 2682.
- 57 L. Harmand, R. Lambert, L. Scarpantonio, N. D. McClenaghan, D. Lastécouères, J.-M. Vincent
"A Photoreducible Copper(II)-tren Complex of Practical Value: Generation of a Highly Reactive Click Catalyst"
Chem. Eur. J. **2013**, *19*, 16231 – 16239.
- 56 G. Ragazzon, P. Verwilt, S. A. Denisov, A. Credi, G. Jonusauskas, N. D. McClenaghan
"Ruthenium(II) Complexes Based on Tridentate Polypyridine Ligands that Feature Long-lived Room-Temperature Luminescence"
Chem. Commun. **2013**, *49*, 9110 – 9112.
- 55 S. Novak, L. Scarpantonio, J. Novak, M. Dai Prè, A. Martucci, J. D. Musgraves, N. D. McClenaghan, K. Richardson
"Incorporation of luminescent CdSe/ZnS core-shell quantum dots and PbS quantum dots into solution-derived chalcogenide glass films"
Opt. Mater. Express **2013**, *3*, 729 – 738.
- 54 Y. Leydet, P. Batat, G. Jonusauskas, S. Denisov, J.C. Lima, J. A. Parola, N. D. McClenaghan, F. Pina
"Impact of Water on the Cis-Trans Photoisomerization of Hydroxychalcones"
J. Phys Chem. A. **2013**, *117*, 4167 – 4173.
- 53 A.-L. Wirotius, E. Ibarboure, L. Scarpantonio, M. Schappacher, N. D. McClenaghan, A. Deffieux
"Hydrosoluble Dendritic Poly(ethylene oxide)s with Zinc Tetraphenylporphyrin Branching Points as Photosensitizers"
Polym. Chem. **2013**, *4*, 1903 – 1912.
- 52 P. Batat, G. Vives, R. Bofinger, R.-W. Chang, B. Kauffmann, R. Oda, G. Jonusauskas, N. D. McClenaghan
"Dynamics of ion-regulated photoinduced electron transfer in BODIPY-BAPTA conjugates"
Photochem. Photobiol. Sci. **2012**, *11*, 1666 – 1674.
- 51 L. Harmand, S. Cadet, B. Kauffmann, L. Scarpantonio, P. Batat, G. Jonusauskas, N. D. McClenaghan, D. Lastécouères, J.-M. Vincent
"Copper Catalyst Activation Driven by Photoinduced Electron Transfer: A Prototype Photolent Click Catalyst"
Angew. Chem., Int. Ed. **2012**, *51*, 7137 – 7141.
- 50 A. Ducrot, P. Verwilt, L. Scarpantonio, S. Goudet, B. Kauffmann, S. Denisov, G. Jonusauskas, N. D. McClenaghan
"Photolariats: Synthesis, metal ion complexation and photochromism"
Supramol. Chem., **2012**, *24*, 462 – 472.
- 49 L. Scarpantonio, A. Tron, C. Destribats, P. Godard, N. D. McClenaghan
"Concatenation of reversible electronic energy transfer and photoinduced electron transfer to control a molecular piston"
Chem. Commun., **2012**, *48*, 3981 – 3983.
- 48 P. Guillo, O. Hamelin, P. Batat, G. Jonusauskas, N. D. McClenaghan, S. Ménage
"Photocatalyzed Sulfide Oxidation with Water as the Unique Oxygen Atom Source"
Inorg. Chem., **2012**, *51*, 2222 – 2230.
- 47 A. Ghodbane, S. D'Altério, N. Saffon, N. D. McClenaghan, L. Scarpantonio, P. Jolinat, S. Fery-Forgues
"Reprecipitation of 2-Phenyl-Benzoxazole Derivatives: Facile Access to Highly Fluorescent Nanofibers and Microcrystals"
Langmuir, **2012**, *28*, 855 – 863.
- 46 P. Batat, M. Cantuel, G. Jonusauskas, L. Scarpantonio, A. Palma, D. F. O'Shea, N. D. McClenaghan
"BF₂-Azadipyromethenes: Probing the Excited-state Dynamics of a NIR Fluorophore and Photodynamic Therapy Agent"

- J. Phys. Chem A*, 2011, 115, 14034 – 14039.
- 45 M. Comesaña-Hermo, R. Estivill, D. Ciuculescu, C. Amiens, P. Batat, G. Jonusauskas, N. D. McClenaghan, P. Lecante, C. Tardin, S. Mazeret
"Photomodulation of the magnetisation of Co-nanocrystals decorated with Rhodamine B"
ChemPhysChem, 2011, 12, 2915 – 2919.
- 44 G. Vives, C. Giansante, R. Bofinger, G. Raffy, A. Del Guerzo, B. Kauffmann, P. Batat, G. Jonusauskas, N. D. McClenaghan
"Facile functionalization of a fully fluorescent perfluorophenyl BODIPY: Photostable thiol and amine conjugates"
Chem. Commun. 2011, 47, 10425 – 10427.
- 43 R. Bofinger, A. Ducrot, L. Jonusauskaite, N. D. McClenaghan, J.-L. Pozzo, G. Sevez, G. Vives
"Ion translocation in artificial molecule-based systems induced by light, electrons or chemicals"
Aust. J. Chem. 2011, 64, 1301 – 1314. (Front Cover story).
- 42 D. Ray, C.-K. Liang, N. D. McClenaghan, D. M. Bassani
"Organic and Supramolecular Materials for LED and Photovoltaic Applications"
Current Physical Chemistry, 2011, 1, 169 – 180. (Special "Hot Topic Issue on New Trends in Photophysics").
- 41 R. Correa da Costa, T. Buffeteau, A. Del Guerzo, N. D. McClenaghan, J.-M. Vincent
"Reversible Hydrocarbon/Perfluorocarbon Phase-Switching of [Ru(bipy)₃]²⁺ Driven by Supramolecular Heteromeric Fluorous Carboxylate-Carboxylic Acid H-Bond Interactions"
Chem. Commun. 2011, 47, 8250 – 8252.
- 40 C. Jahier, M.-F. Coustou, M. Cantuel, N. D. McClenaghan, T. Buffeteau, M. Carraro, S. Nlate
"Optically Active Tripodal Dendritic Polyoxometalates: Synthesis, Characterization and Application in Asymmetric Sulfide Oxidation with Hydrogen Peroxide"
Eur. J. Inorg. Chem. 2011, 727 – 738.
- 39 M. Amelia, A. Lavie-Cambot, N. D. McClenaghan, A. Credi
"A Ratiometric Luminescent Oxygen Sensor Based on a Chemically Functionalized Quantum Dot"
Chem. Commun. 2011, 47, 325 – 327. (Special issue on "Emerging investigators").
- 38 D. M. Bassani, L. Jonusauskaite, A. Lavie-Cambot, N. D. McClenaghan, J.-L. Pozzo, D. Ray, G. Vives
"Harnessing supramolecular interactions in organic solid-state devices: current status and future potential"
Coord. Chem. Rev. 2010, 254, 19-20, 2429 – 2445. (Special issue on "Supramolecular approaches to nano and molecular electronics").
- 37 M. Cantuel, C. Lincheneau, T. Buffeteau, L. Jonusauskaite, T. Gunnlaugsson, G. Jonusauskas, N. D. McClenaghan
"Enhanced photolabelling of luminescent Eu^{III} centres with a chelating antenna in a micellar nanodomain"
Chem. Commun., 2010, 46, 2486 – 2488.
- 36 A. Lavie-Cambot, C. Lincheneau, M. Cantuel, Y. Leydet, N. D. McClenaghan
"Reversible electronic energy transfer: A means to govern excited-state properties of supramolecular systems"
Chem. Soc. Rev. 2010, 39, 506 – 515. (commissioned Tutorial review)
- 35 N. D. McClenaghan
"Communication intramoléculaire photocontrôlée"
L'actualité Chimique 2010, 337, 23 – 27.
- 34 C. Jahier, S. Nlate, M. Cantuel, N. D. McClenaghan, T. Buffeteau, D. Cavagnat, F. Agbossou, M. Carrero, M. Bonchio
"Enantiopure Dendritic Polyoxometalates: Chirality Transfer from Dendritic Wedges to a POM Cluster for Asymmetric Sulfide Oxidation"
Chem. Eur. J. 2009, 15, 8703 – 8708.
- 33 V. Darcos, C.-H. Huang, N. McClenaghan, Y. Molard, J.H.R. Tucker, Y. Vida Pol, E. Perez-Inestrosa, D.M. Bassani
"Shining light on supramolecular assemblies"

- Pure Appl. Chem.* **2009**, *81*, 9, 1677 – 1685. (invited article)
- 32 A. Lavie-Cambot, M. Cantuel, Y. Leydet, G. Jonusauskas, D. M. Bassani, N. D. McClenaghan
“Improving the photophysical properties of copper(I) bis(phenanthroline) complexes”
Coord. Chem. Rev. **2008**, *252*, 2572 – 2584. (Invited article)
- 31 J. Larsen, F. Puntoriero, T. Pascher, N. McClenaghan, S. Campagna, Villy Sundström, E. Åkesson
“Extending light-harvesting properties of transition metal dendrimers”
ChemPhysChem **2007**, *8*, 2643 – 2651.
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ORAL PRESENTATIONS

- 76 N. D. McClenaghan, S. Yu, A. Kupriakov, S. A. Denisov, J.-L. Pozzo, G. Jonusauskas, "Dynamic Photoprocesses in Interpenetrating molecules" ICCC 30th July - 04th August 2018 Japan (Invited)
- 75 N.D. McClenaghan, G. Jonusauskas, Y. Ferrand, S. Lecommandoux, "Micro- and Nano-sized Light-responsive Supramolecular Architectures" IUPAC Symposium on Photochemistry, 8th-13th July 2018 Ireland (Invited)

- 74 N.D. McClenaghan, L. Beauté, Y. Ferrand, G. Jonusauskas, S. Lecommandoux, "From Foldaxanes to Explosomes: Photoactive Supramolecular Systems" 6th PyChem: Portuguese Young Chemists meeting, 15th - 18th May 2018, Sétubal, Portugal (Invited)
- 73 V. Ibrahimova G. Raffy, J.-M. Vincent, C.-A. Fustin, S. Lecommandoux, N. D. McClenaghan "Photoactive BODIPY polymer-based systems: Polymersomes for PDT and 2D & 3D micrometric surface patterning" 255th ACS National Meeting, 18th -22nd March 2018, New Orleans, USA
- 72 N. D. McClenaghan, S. Denisov, G. Jonusauskas, Y. Ferrand, I. Huc, S. Lecommandoux, "Reversible electronic energy transfer and other photoprocesses in supramolecular architectures", Molecular Technology: "Energy and electron transfers in molecular engineered materials" June 28-30, 2017 Strasbourg, France (Plenary)
- 71 N. D. McClenaghan, "Photochemistry of Foldaxanes, Explosomes and Other Supramolecular Architectures", Journées de l'Ecole Doctorale de Chimie Moléculaire, Université Pierre et Marie Curie, 22-23 May 2017 (Invited)
- 70 N. D. McClenaghan, "Photochemistry with a twist : Light-induced processes in helical foldamer-based scaffolds", International workshop on light activated nanostructures, 16th May 2017, Center for Light Activated Nanostructures, Università di Bologna and Consiglio Nazionale delle Ricerche, Bologna, Italy (Keynote)
- 69 N. D. McClenaghan, "Photoinduced processes in molecule-based systems and quantum dot-molecule hybrids" LIA LUMAQ LUMière Matière Aquitaine Québec, Bordeaux, 29th-31st March 2017 (Invited)
- 68 S. Denisov, G. Jonusauskas, Y. Ferrand, I. Huc, S. Lecommandoux, N. D. McClenaghan, "Light-driven processes in molecule-based nano-architectures/assemblies", LCC, Toulouse, 10th March 2017. (Invited Seminar)
- 67 N. McClenaghan, "Photoactive functional molecules: Ultraphotostable fluorophores, Energy shuttling and Molecular machines", University of New South Wales, Australia, 20th February 2017. (Invited Seminar)
- 66 S. Denisov, G. Jonusauskas, Y. Ferrand, I. Huc, S. Lecommandoux, N. D. McClenaghan, "Light-driven processes in molecule-based nano-architectures/assemblies", AMN8 - 8th International Conference on Advanced Materials and Nanotechnology, New Zealand 12-16 February 2017 ("Keynote" lecture).
- 65 N. D. McClenaghan, A. Tron, S. Yu, J.-L. Pozzo, A. Ducrot, J. Tucker, A. Credi "Photoswitching Mechanically Interlocked Molecule Construction" 8th International symposium on photochromism, Shanghai 4-7th November 2016
- 64 R. Bofinger, A. Peyret, L. Beauté, A. Tron, E. Ibarboure, S. Lecommandoux, N. D. McClenaghan, "Message in a Bubble: Phototriggered Events in Microdomains", Joint Congress of the French and Italian Photochemists and Photobiologists, 19 - 22 September, 2016 - Bari (Italy)
- 63 N. D. McClenaghan, S. A. Denisov, G. Jonusauskas, "Harnessing Reversible Electronic Energy Transfer : From Molecular Dyads to Molecular Machines", 42nd International Conference on Coordination Chemistry (ICCC), 3rd-8th July 2016, Brest, France. (Invited).
- 62 Photon-triggered polymersome rupture under temporal, spatial and spectral control. A. Peyret, E. Ibarboure, A. Tron, L. Beaute, R. Rust, O. Sandre, N. Mcclenaghan, S. Lecommandoux. **CopAmphi**, Bordeaux, France, June 8-10 2016(Oral Communication)
- 61 N. D. McClenaghan, "Designer Photoactive Functional Molecules : Energy shuttling, molecular machines and highly photostable fluorophores", Journées Cours délocalisés du Collège de France à l'Université de Bordeaux, 31st May 2016.
- 60 N. D. McClenaghan, S. A. Denisov, G. Jonusauskas, M. Nagula, X. Li, Y. Ferrand, V. Maurizot, I. Huc, "Photoactive helicates: Photoinduced electron and reversible electronic energy transfer in giant foldamers and foldaxanes, XXVIth IUPAC on Photochemistry, April 3-8th 2016, Osaka, Japan.
- 59 N. D. McClenaghan, "Designer photoactive functional molecules: Energy shuttling, molecular machines and highly photostable fluorophores", Seminar, Aoyama Gakuin University, Tokyo, 31/03/2016.
- 58 N. McClenaghan, A. Tron, R. Bofinger, J. Thevenot, S. Lecommandoux, J. Tucker "Photoswitching interlocked molecule construction and dynamic intermolecular communication" Pacificchem 2015, Symposium / Session: Design of innovative photochromic applications (Invited).
- 57 R. Bofinger, J. Thevenot, S. Lecommandoux, R. Oda, N. D. McClenaghan "Biomimetic communication between functional molecules via photocontrolled ions in polymeric nanodomains", Pacificchem 2015, Symposium/Session : Multi-scale and Synergistic Supramolecular systems in Materials and Biomedical sciences.

- 56 N. McClenaghan, "Exciting molecular machines: Photocapture and fast photoinduced processes" International Symposium for Photo- and Electro-Molecular Machines, PEM2, Toulouse, France 6-7th October 2015. (Invited)
- 55 N. McClenaghan, "Exciting molecular machines: Photocapture and fast photoinduced processes" Seminar, Université Joseph Fourier, Grenoble, France 11th September 2015.
- 54 G. Jonusauskas, O. A. Fedorova, N. D. McClenaghan, Ultrafast electronic processes in (supra)molecular systems 41st National Lithuanian Physics Conference, June 17-19, 2015, Vilnius, Lithuania
- 53 N. McClenaghan, A. Tron, R. Bofinger, J. Thevenot, S. Lecommandoux, J.H.R. Tucker, "Light-driven catenation and intermolecular communication in solution and nanocapsules" 10th ISMSC-2015, Strasbourg, France 28th June-2nd July 2015 (Invited)
- 52 N. D. McClenaghan, R. Bofinger, J. Thevenot, S. Lecommandoux, "Chemical communication between functional molecules via photocontrolled ions in polymeric nanocapsules", SysChem15, Kerkrade, Netherlands (Invited), 18-22, May 2015.
- 51 N. McClenaghan, "Photocatenation and intermolecular communication in solution and nanocapsules" Seminar, University of Bologna, Italy. 12th May 2015.
- 50 N. McClenaghan, "Light-driven interlocked molecule construction and dynamic transfer in molecular machines" Seminar, École de chimie, polymère et matériaux de Strasbourg, France. 24th March 2015.
- 49 N. McClenaghan, "Light-driven ion and electronic energy transfer in supramolecular systems" Seminar, University of Barcelona, Spain. 16th December 2014.
- 48 S. Novak, D.E. Johnston, N. Patel, W. Deng, N. McClenaghan, A. Agarwal, W. Liyanage, M. Nath, H. Hodaei, M. Khajavikhan, K. Richardson, "Characterization of luminescent quantum dot doped chalcogenide glass films from solution," DGG-GOMD: Joint meeting of German Society of Glass Technology and American Ceramic Society Glass and Optical Materials Division, Aachen, Germany, (May 29, 2014).
- 47 N. D. McClenaghan, R. Bofinger, J. Thevenot, R. Oda, S. Lecommandoux, "Biomimetic communication between functional molecules via photocontrolled ions in polymeric nanodomains", CECP 2014, 9th-14th Feb 2014, Bad Hofgastein, Austria.
- 46 N. D. McClenaghan, "Designer photoactive functional molecules and assemblies with potential to interface biology", France BioImaging: Photoactive Biologically-relevant Probes and Actuators, and Optogenetic Systems, 19th-20th December 2013, Institut Curie, Paris.
- 45 N. D. McClenaghan, "Light-driven ion and electronic energy transfer in supramolecular systems". Seminar University of Geneva, Switzerland, 14th Nov 2013
- 44 N. D. McClenaghan, "Energy and ion transfer in molecule-based architectures,"Centre of Excellence LAPHIA - 1st annual symposium, 2nd-6th September 2013, Talence, France.
- 43 N. D. McClenaghan, R. Bofinger, J. Thevenot, H.-P. Jacquot-de-Rouville, R. Oda, S. Lecommandoux, Sébastien, "Biomimetic communication between functional molecules via photocontrolled ions in polymeric nanodomains", International Conference on Photochemistry -ICP 2013, 21st -26th July 2013 Leuven, Belgium
- 42 N. D. McClenaghan, "Photoinduced ion and reversible energy transfer in supramolecular systems", Séminaire, June 2013, University NOVA of Lisbon, Portugal.
- 41 N. D. McClenaghan, R. Bofinger, S. Denisov, G. Jonusauskas, S. Lecommandoux, J. Thevenot, A. Tron, "Light-driven ion and electronic energy transfer in supramolecular systems: Lessons from nature", Journée de Communications - Section régionale Champagne-Ardenne, Société Chimique de France, Reims - 30 mai 2013.
- 40 P. Verwilt, A. Ducrot, R. Bofinger, L. Scarpantonio, J.-L. Pozzo, S. Denisov, G. Jonusauskas, N. D. McClenaghan, "Photoswitching ion binding of biorelevant ions", International Research Group PHoto-switchableE orgaNIC molecular systems & deviceS, November, 28 - December 1 2012, Nantes, France.
- 39 N. D. McClenaghan, "Vectorial photoinduced electron transfer and reversible electronic energy transfer in synthetic molecules", Symposium on Quantum Modeling of electronic processes in Organic Optoelectronic Devices, November, 8-9 2012, Institut des Sciences Moléculaires Université Bordeaux 1.
- 38 N. D. McClenaghan, Seminar Birmingham University, "Photoactive designer molecules for fluorescence imaging and "click" chemistry" 10/08/2012.
- 37 R. Bofinger, G. Vives, P. Batat, G. Jonusauskas, G. Raffy, A. del Guerso, D. O'Shea, N. D. McClenaghan, "BODIPY and AzaBODIPY labels and switches: Facile functionalization and an insight into photodynamics" XXIV IUPAC Photochemistry 15th-20th July 2012, Coimbra, Portugal.

- 36 N. D. McClenaghan, "Fluorescent switches labels and supermolecules", 6èmes Journées de l'Association Bordelaise de Cristallographie (JABC6) - 21 - 22 June 2012, Talence.
- 35 N. D. McClenaghan, R. Bofinger, P. Batat, A. Ducrot, T. Gunnlaugsson, G. Jonusauskas, R. Oda, P. Verwilt, L. Scarpantonio, "Photocontrolled Biocompatible Supramolecular Systems : Chemical transfer and Activation"; ISMSC Jan 29th -Feb 2nd 2012, Otago, New Zealand.
- 34 N. D. McClenaghan, Seminaire University of Angers, France, 3rd December 2011, "Photoinduced ion and electronic energy transfer in designer supramolecular systems".
- 33 N. D. McClenaghan, G. Sevez, A. Ducrot, R. Bofinger, P. Batat, R.-W. Chang, G. Jonusauskas, L. Jonusauskaite, J.-L. Pozzo, R. Oda
ImagineNano, April 11-14th 2011 Bilbao, Spain. (Invited)
"Communication between molecules via photocontrolled ions"
- 32 N. D. McClenaghan, GDR (Groupement de Recherche) Electronique Moléculaire Bordeaux, November 23-24 2010. (invited). "Bio-inspired photoionic molecules".
- 31 N. D. McClenaghan, G. Sevez, A. Lavie-Cambot, A. Ducrot, G. Jonusauskas, P. Batat, R. Oda, R.-W. Chang
"COMMOTION : Communication entre molécules fonctionnelles par des ions photoguidés", J3N2010, Lille, November 8-10 2010. (invited)
- 30 N. D. McClenaghan, Department of Chemistry, University College, Dublin, Ireland. "Photoprocesses in supramolecular assemblies and complexes" (invited, April 2010).
- 29 N. D. McClenaghan, G. Jonusauskas, R. Oda, G. Vives, A. Lavie-Cambot, R.-W. Chang, P. Batat, J.-L. Pozzo, L. Jonusauskaite, A. Ducrot
First ERC Recipients Interdisciplinary Symposium (invited), France-Israel, March 7-11 2010.
"Communication between functional molecules using photocontrolled ions"
- 28 N.D. McClenaghan, Dipartimento di Chimica "Giacomo Ciamician", Università di Bologna, Italy.
"Building hydrogen-bonded assemblies and luminescent copper complexes" (seminar 17th December 2009)
- 27 N. D. McClenaghan, COST D35 Working Group 15, Design and function of self-assembled light-energy conversion devices (Coordinator: Prof. Villy Sundström), May18-19th 2009 Bordeaux, France. "Energy transfer in self-assembled nanostructures"
- 26 N. D. McClenaghan, Journées Scientifiques de l'Institut des Métaux en Biologie de Grenoble, Autrans 13-14 May 2009 "Natural photoinduced processes in unnatural supramolecular systems" (invited).
- 25 N. D. McClenaghan, Journées d'Automne 2008 du Groupe Français de Photochimie, 40ème Anniversaire, Ecole Polytechnique, Palaiseau 26-28 Novembre 2008, "Photocatenanes" (invited).
- 24 N.D. McClenaghan, Y. Leydet, G Jonusauskas, A. Lavie-Cambot, M. Cantuel
XXII IUPAC symposium on Photochemistry, Gothenberg, Sweden, 28/07/08-01/08/2008."Excited-state equilibration in supramolecular systems".
- 23 N. D. McClenaghan, University of Birmingham, School of Chemistry, England. 15/04/2008. Seminar "Supramolecular control of excited-state properties".
- 22 N. D. McClenaghan, COST D35 WG 0015-05 Design and function of self-assembled light-energy conversion devices, 28-29th March 2008, Messina, Italy.
"Electronic Energy transfer in Bichromophoric Eu^{3+} and Cu^+ -based Systems"
- 21 N. D. McClenaghan, 9th Annual Symposium on Supramolecular Chemistry in Ireland, 13th March 2008, Trinity College Dublin, Ireland.(Invited speaker).
"Supramolecular engineering of excited-state properties"
- 20 N.D. McClenaghan, Y. Leydet, D. Bassani, G. Jonusauskas, A. Lavie-Cambot, M. Cantuel
Central European Conference on Photochemistry (CECP 2008), Bad Hofgastein, Austria Feb. 10-14th 2008
"Excited-state equilibration in supramolecular systems"
- 19 N.D. McClenaghan, A. Lavie-Cambot, M. Cantuel, R. Oda, I. Pianet, G. Jonusauskas
Journée ISM, 18/12/2007, Haut-Carré, Talence, France.
"COMMOTION: Communication between functional molecules using photocontrolled ions" (Plenary)
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"Reversible Energy Transfer and Photoinduced Electron Transfer Processes in Supramolecular Systems and Nanostructured Assemblies"
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"Self-assembled Photoactive Fullerene Systems"
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"Photoinduced Processes in Hydrogen-bonding Fullerene-based Systems"
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"Photoactive self-assembled fullerene-based systems"
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"Self-assembled Fullerene-based Systems"
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"Photoactive Supramolecular Systems"
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"Light harvesting systems with carbazole-containing dendrons"
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"Luminescenza di sistemi dendritici basati su complessi di rutenio con leganti carbazolici"
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"Tetranuclear heterometallic dendrimers decorated with bichromophoric ligands"
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"Metal complexes containing carbazole-substituted phenanthroline ligands: novel light-harvesting antenna systems"
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"Luminescent Sensors and Photonic Switches"
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"Designer Molecules for Photonic Signalling"
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XXIIIrd International Symposium on Macrocyclic Chemistry, Hawaii, June 1998, Poster
"Fluorescent pH sensors with visible communication wavelengths and a dual response mechanism"
A. J. M. Huxley, A.P. de Silva, J. Ferguson, A.P. de Silva and N. D. McClenaghan

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SUPERVISION/ CO-SUPERVISION OF RESEARCH PROJECTS:

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- B. Debouche (L3 2018)
- D. Genevieve-Anastasie (L3 2018)
- B. Urquiola Zaballa (codirection thèse 2018-)
- A. Gomez (Stage M2 2018)
- L. Sturm (Stage M1 2018)
- N. Mallo (Stage Ph.D. 2017, bourse "France in Australie")
- K. Le Tout (Stage M2 2017)
- M. Douarre (Ph.D. 2016-2019)
- J. De Tovar Villanueva (Stage Ph.D. 2016)
- T. Olivar (L3 2016)
- R. Rust (M2 2016)
- M. Hennebelle (M2 2016)
- J. Spiteri (M2 - CNRS travel grant 2016)
- L. Pisciotanni (Ph.D. 2015-2018)
- J. Perez (Stage Ph.D. 2015)
- E. Larralde (Stage M1 2015)
- B. Martin (Stage M2 2015)
- M. Potopnyk (post-doc 2015-2016)
- J. Shimazu (stage Kumamoto university, 2014)
- S. Yu (codirection thèse 2014-)
- M. La Rosa (codirection thèse 2014-2017)
- S. Mahmoudi (2014 stage classes préparatoire)
- M.-A. Marliac (2014 stage classes préparatoire)
- R. Bars (stage licence 2014)
- J. Fournier de Laurière (Stage M2 2014)

- M. Bouriga (codirection thèse 2013-)
- A. Macary (Stage M2 2013)
- K. Antien (stage licence 2013)
- C. Mergy (2012; stage licence 2014)
- J. Avo (Stage Ph. D. 2012)
- A.-M. Diniz (stage Ph. D. 2012)
- H.-P. Jacquot (post-doc 2012-2013)
- J. Thevenot (post-doc 2012-2013)
- G. Ragazzon (stage Collegio Superiore 2012)
- L. Rochet (stage licence 2012)
- P. Thornton (stage Ph.D. 2011)
- P. Verwilt (post-doc 2011-2013)
- S. Denisov (codirection thèse 2011-2014, post doc 2014-2016)
- L. Chabreuil (stage Ph.D. 2011)
- L. Scarpantonio (post-doc, 2011-2013)
- S. Novak (2011, International Masters student, USA)
- S. Goudet (M2, 2011)
- R. Humphreys (ERASMUS 2011)
- M. Dhalluin (stage licence 2011)
- J. Roux (stage licence 2011, coencadrement)
- R. Bofinger (thèse, 2010-2013)
- G. Sevez (post-doc, 2010-2011)
- A. Tron (thèse Université Bordeaux I, 2012-, M2 2012, M1 2011, stage licence 2010)
- F. Brisset (M2, 2009)
- M. Semeraro (stage Ph.D. 2009)
- G. Vives (post-doc, 2009-2010)
- P. Batat (thèse Université Bordeaux I, codirection 2008-2011)
- R.-W. Chang (thèse Université Bordeaux I, codirection; 2008-2011)
- A. Ducrot (M2, 2008; thèse 2009-2012)
- G. Raillard (bac)
- M. Cantuel (CNRS post-doc, 2007-2009)
- M. Rocher (stages Ph.D.: Juillet 2006; May 2007; Juillet 2008)
- B. Pagoaga (stage licence 2007)
- S. Martinez (stage licence 2007)
- M. Mora-Marquez (stage Ph.D. Dec. 2006)
- A. Saoud (stage 1 mois, Ph. D., Sep. 2006; Jan 2009)
- G. Marchand (stage licence 2006)
- L. Jonusauskaite (stage licence 2006)
- D. Bry (stage License 2005)
- A. Lavie-Cambot (Stage Licence 2005; Stage Masters 2 2007; Ph. D. awarded Dec. 2010); poster prize -11ème Journée de l'Ecole Doctorale des Sciences Chimiques.
- Y. Leydet (Ph. D. thesis) 2004-2007; 2nd prize French chemical society, best thesis in Aquitaine.
- H. Haddaoui (M2 2004)
- V. Pericolle (stage licence 2004)
- C. Lincheneau (Masters 2 2006 ; Stage License 2004; stage M1 Nov. 2004- Juin. 2005 (temps partiel).
- N. Betz (stage DEUG 2004)