

# Matthieu Sollogoub

Professor



**Born** 21<sup>st</sup> October 1971 in Paris  
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## ACADEMIC RECORD

1995	<b>Master of Chemistry</b>	<i>Ecole Normale Supérieure</i>
1996-1999	<b>Doctor of Chemistry</b> , Adv.: Prof. P. Sinaÿ	<i>Ecole Normale Supérieure</i>
2000-2001	<b>Research Fellow</b> , Adv.: Profs T. Brown, K. Fox	<i>University of Southampton</i>
2001	<b>Assistant Professor</b> , Team Prof. P. Sinaÿ	<i>Ecole Normale Supérieure</i>
2007	<b>Associate Professor (PI) Team Organic</b> Biological & Supramolecular Glycochemistry	<i>Sorbonne Université</i>
2008	<b>Full Professor</b> of Molecular Chemistry	<i>Sorbonne Université</i>

## MAIN RESPONSABILITIES

**2020→2024** Head of the *Initiative pour les Sciences et l'Ingénierie Moléculaires (iSiM)* of Sorbonne University  
**2018→2021** President of the Organic Division of the French Chemical Society  
**2017→2022** Director of the Laboratory of Excellence *MiChem*  
**2007→** Group leader GOBS group in IPCM at Sorbonne University (PI, 6 permanent researchers, 16 PhDs)

## AWARDS AND HONOURS

**2020** **Chemistry Europe Fellow (CEF)**  
**2020→** Member of the Editorial board of **Journal of Carbohydrate Chemistry** (Taylor & Francis)  
**2019** International Advisory Board of the **Russian Chemical Bulletin**  
**2018** **Yoshida lectureship award**, International Organic Chemistry Foundation (Japan)  
**2013** **Verdaguer Award**, French Academy of Sciences  
**2013→2020** Regional Editor for the **Journal of Carbohydrate Chemistry** (Taylor & Francis)  
**2013→** Member of the Editorial board of **Carbohydrate Research** (Elsevier)  
**2011** Elsevier's **Carbohydrate Research Award** for Creativity in Glycosciences  
**2010-2015** Fellow of the Institut Universitaire de France (IUF)

**Visiting Professor** Tianjin University of Science and Technology, China (2019-2022)

**Invited Professorships** Louvain la Neuve (Belgium), Santiago de Compostela (Spain)

▶ **127 published papers**, including 15 *Angew. Chem. Int Ed.*, 4 *JACS*, 1 *Nature Comm.*, 1 *PNAS*, 1 *Chem*, 1 *ACS Cent. Sci.*, 1 *ACS Catal.*, 11 *Chem Comm*, 11 *Chem Eur J* 5 *Org. Lett.*..., 8 cover pictures, **6 book chapters**, **3 patents**,

▶ **21 plenary lectures**, including 29<sup>th</sup> International Carbohydrate Symposium (Portugal), 17<sup>th</sup> International Cyclodextrin Symposium (Germany), Eurocarb 16 (Italy), International Conference on Catalysis (Russia)...

▶ **126 invited lectures (74 abroad)**, including Gordon conference, Scripps Research Institute, San Diego (USA), Oxford University (UK), University of Tokyo (Japan), University of Toronto (Canada), University of Pennsylvania (USA), Cornell Medical School (USA), Memorial Sloan-Kettering Cancer Center (USA), Zurich University (Swiss), Kyoto University (Japan), Southampton University (UK), Peking University (China)...

## PUBLICATIONS

137 - **Permethylated NHC-capped  $\alpha$ - and  $\beta$ -cyclodextrins (ICyDMe) Regioselective and enantioselective gold-catalysis in pure water**, X. Zhu, G. Xu, L.-M. Chamoreau, Y. Zhang, V. Mansuy, L. Fensterbank, O. Bistri-Aslanoff, Sylvain Roland, M. Sollogoub, *Chem. Eur. J.* **2020**, doi: 10.1002/chem.202001990

136 - **Chemoenzymatic Synthesis of Arabinomannane (AM) Glycoconjugates as Potential Vaccines for Tuberculosis**, Z. Li, T. Bavaro, S. Tengattini, R. Bernardini, M. Mattei, F. Annunziata, R. B. Cole, C. Zheng, M. Sollogoub, L. Tamborini, M. Terreni, Y. Zhang, *Eur. J. Med. Chem.* **2020**, 189,

135 - **Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives**, B. Linciau, A. Ardá, N. C. Reichardt, M. Sollogoub, L. Unione, S. P. Vincent, J. Jiménez-Barbero, *Chem. Soc. Rev.* **2020**, DOI: 10.1039/C9CS00099B.

134 - **An epoxide intermediate in glycosidase catalysis: Mechanistic, computational and structural evidence**, L. F. Sobala, G. Speciale, S. Zhu, L. Raich, N. Sannikova, A. J Thompson, Z. Hakki, D. Lu, S. S. K. Abadi, A. R. Lewis, V. Rojas-Cervellera, G. Bernardo-Seisdedos, Y. Zhang, O. Millet, J. Jiménez-Barbero, A. J. Bennet, M. Sollogoub, C. Rovira, G. J Davies, S. J. Williams, *ACS Cent. Sci.* **2020**, 6, 760-770.

133 -  **$\beta$ -Cyclodextrin-NHC-Gold(I) Complex ( $\beta$ -ICyD)AuCl: a Chiral Nanoreactor for Enantio- and Substrate-Selective Alkoxy cyclization Reactions**, C. Tugny, N. del Rio, M. Koohgard, N. Vanthuyne, D. Lesage, K. Bijouard, P. Zhang, J. Mejjide Suárez, S. Roland, O. Bistri-Aslanoff, M. Sollogoub, L. Fensterbank, V. Mouriès-Mansuy, *ACS Catal.* **2020**, 10, 5964-5972

132 - **A Concise Synthesis of Oligosaccharides Derived From Lipoarabinomannan (LAM) with Glycosyl Donors Having a Nonparticipating Group at C2**, Z. Li, C. Zheng, M. Terreni, T. Bavaro, M. Sollogoub, Y. Zhang, *Eur. J. Org. Chem* **2020**, 2033-2044.

131 - **Design, synthesis and biological evaluation of new ganglioside GM3 analogues as potential agents for cancer therapy**, C. Zheng, R. Huang, T. Bavaro, M. Terreni, M. Sollogoub, J. Xu, Y. Zhang, *Eur. J. Med. Chem.* **2020**, 189, 112065

130 - **Capturing the Monomeric (L)CuH in NHC-Capped Cyclodextrin: Cavity-Controlled Chemoselective Hydrosilylation of  $\alpha,\beta$ -Unsaturated Ketones**, G. Xu, S. Leloux, P. Zhang, J. Meijide Suárez, Y. Zhang, E. Derat, M. Ménand, O. Bistri-Aslanoff, S. Roland, T. Leyssens, O. Riant, M. Sollogoub, *Angew. Chem. Int. Ed.* **2020**, *59*, 7591-7597.

129 - **Synthesis, Conformational Analysis and Complexation Study of an Iminosugar-Aza-Crown, a Sweet Chiral Cyclam Analog**, A. Bordes, A. Poveda, T. Troadec, A. Franconetti, A. Ardá, F. Perrin, M. Ménand, M. Sollogoub, J. Guillard, J. Désiré, R. Tripier, J. Jiménez-Barbero, Y. Blériot, *Org. Lett.* **2020**, *22*, 2344-2349.

128 - **Design, synthesis and biological evaluation of new ganglioside GM3 analogues as potential agents for cancer therapy**, C. Zheng, R. Huang, T. Bavaro, M. Terreni, M. Sollogoub, J. Xu, Y. Zhang, *Eur. J. Med. Chem.* **2020**, *189*, 112065

127 - **Functionalized Cyclodextrins and Their Applications in Biodelivery**. J. Liu, P. Yu, M. Sollogoub, Y. Zhang in *Handbook of Macrocyclic Supramolecular Assembly*. Edited by Y. Liu, Y. Chen, H. Y. Zhang. (eds) Springer, Singapore **2019**

126 - **Orchestrating Communications in a Three-Type Chirality Totem: Remote Control of the Chiroptical Response of a Möbius Aromatic System**, R. Benchouaia, N. Cissé, B. Boitrel, M. Sollogoub, S. Le Gac, M. Ménand, *J. Am. Chem. Soc.* **2019**, *141*, 11583-11593.

125 - **Chemoenzymatic Synthesis of Glycoconjugates Mediated by Regioselective Enzymatic Hydrolysis of Acetylated 2-Amino Pyranose Derivatives**, C. Zheng, T. Bavaro, S. Tengattini, A. Gualla Mascherpa, M. Sollogoub, Y. Zhang, M. Terreni, *Eur. J. Org. Chem.* **2019**, *15*, 3622-3631.

124 - **Carboboration of Alkynes with Cyclodextrin-Encapsulated N-Heterocyclic Carbene Copper Complexes**, Z. Wen, Y. Zhang, S. Roland, M. Sollogoub, *Eur. J. Org. Chem.* **2019**, 2682-2687 – *VIP*

123 - **Bi(OTf)<sub>3</sub>-mediated intramolecular epoxide opening for bicyclic azepane synthesis**, S. Zhu, A. T. Tran, Y. Hirokami, G. Gontard, O. Khaled, Y. Zhang, A. Kato, Y. Blériot, M. Sollogoub, *J. Carbohydr. Chem.* **2019**, *38*, 139-149

122 - **Chemoenzymatically synthesized ganglioside GM3 analogues with inhibitory effects on tumor cell growth and migration**, C. Zheng, H. Guan, Y. Liu, Z. Li, T. Bavaro, M. Terreni, M. Sollogoub, J. Xu, Y. Zhang, *Eur. J. Med. Chem.* **2019**, *165*, 107-114.

121 - **From 1,4-Disaccharide to 1,3-Glycosyl-Carbasugar: Synthesis of a Bespoke Inhibitor of Family GH99 Endo- $\alpha$ -Mannosidase**, D. Lu, S. Zhu, L. F. Sobala, G. Bernardo-Seisdedos, O. Millet, Y. Zhang, J. Jiménez-Barbero, G. J. Davies, M. Sollogoub, *Org. Lett.* **2018**, *20*, 7488-7492.

120 - **Targetting the Pentose Phosphate Pathway: characterization of a new 6PGL inhibitor**, A.T. Tran, A. Sadet, P. Calligari, P. Lopes, J. Ouazzani, M. Sollogoub, E. Miclet and D. Abergel, *Biophys. J.* **2018**, *115*, 2114-2126.

119 - **Bridging  $\beta$ -Cyclodextrin prevents self-inclusion and allows formation of supramolecular polymers: self-assembly and cooperative interaction with nucleic acids**, P. Evenou, J. Rossignol, G. Pembouong, A. Gothland, D. Colesnic, R. Barbeyron, S. Rudiuk, A.-G. Marcelin, M. Ménand, D. Baigl, V. Calvez, L. Bouteiller, M. Sollogoub, *Angew. Chem. Int. Ed.* **2018**, *57*, 7753-7758.

118 - **Confinement of Metal-N-Heterocyclic Carbene Complexes to control reactivity in catalytic reactions**, S. Roland, J. Meijide Suarez, M. Sollogoub, *Chem. Eur. J.* **2018**, *24*, 12464-12473 - *Reviews Showcase*

117 - **Ganglioside GM3 and Its Role in Cancer**, C. Zheng, M. Terreni, M. Sollogoub, Y. Zhang, *Curr. Med. Chem.* **2018**, *25*, doi: 10.2174/0929867325666180129100619.

116 - **Chemoenzymatically synthesized GM3 analogues as potential therapeutic agents to recover nervous functionality after injury by inducing neurite outgrowth**, C. Zheng, H. Qub, W. Liao, T. Bavaro, M. Terreni, M. Sollogoub, K. Ding, Y. Zhang, *Eur. J. Med. Chem.* **2018**, *146*, 613-620.

115- **Cyclodextrin-Sandwiched Hexaphyrin Hybrids. Side-to-Side Cavity Coupling Switched by a Temperature and Redox Responsive Central Device**, S. Le Gac, B. Boitrel, M. Sollogoub, M. Ménand, *Chem. Eur. J.* **2018**, *24*, 5804-5812

114- **Design, synthesis and biological evaluation of water-soluble per-O-methylated cyclodextrin-C60 conjugates as anti-influenza virus agents**, X. Zhu, S. Xiao, D. Zhou, M. Sollogoub, Y. Zhang, *Eur. J. Med. Chem.* **2018**, *146*, 194-205

113 - **Cyclodextrin cavity-induced mechanistic switch in copper-catalyzed hydroboration**, P. Zhang, J. Meijide Suarez, T. Driant, E. Derat, Y. Zhang, M. Ménand, S. Roland, M. Sollogoub, *Angew. Chem. Int. Ed.* **2017**, *56*, 10821-10825.

112 - **Secondary-rim  $\gamma$ -cyclodextrin functionalization to conjugate with C60: improved efficacy as photosensitizer**, X. Zhu, A. Quaranta, R. V. Bensasson, M. Sollogoub, Y. Zhang, *Chem. Eur. J.* **2017**, *23*, 9462-9466

111 - **Artificial chiral metallo-pockets including a single metal serving as both structural probe and catalytic center**, P. Zhang, C. Tugny, J. Meijide Suárez, M. Guitet, E. Derat, N. Vanthuyne, Y. Zhang, O. Bistri, V. Mouriès-Mansuy, M. Ménand, S. Roland, L. Fensterbank, M. Sollogoub, *Chem* **2017**, *3*, 174-191.

- 110 - **Research Progress of Natural Product Gentiopicroside - a Secoiridoid Compound**, S. Wu, Y. Ning, Y. Zhao, W. Sun, S. Thorimbert, L. Dechoux, M. Sollogoub, Y. Zhang, *Mini Rev. Med. Chem.* **2017**, *17*, 62-77.
- 108 - **Design, synthesis and biological evaluation of gentiopicroside derivatives as potential antiviral inhibitors**, S. Wu, L. Yang, W. Sun, L. Si, S. Xiao, Q. Wang, L. Dechoux, S. Thorimbert, M. Sollogoub, D. Zhou, Y. Zhang, *Eur. J. Med. Chem.* **2017**, *130*, 308-319.
- 107 - **Mechanostereoselective one-pot synthesis of functionalized head-to-head cyclodextrin [3]rotaxanes and their application as Magnetic Resonance Imaging contrast agents**, J. Wilfried Fredey, J. Scelle, G. Ramniceanu, B.-T. Doan, C. S. Bonnet, É. Tóth, M. Ménand, **M. Sollogoub**, G. Vives, B. Hasenknopf, *Org. Lett.* **2017**, *19*, 1136–1139
- 106 - **Liposomes for PET and MR imaging and for dual targeting (magnetic field)**. Nataf, A. Prignon, C. Provost, Y. Zhang, P. Ou, K. Kerrou, J.-N. Talbot, J.-M. Siaugue, M. Sollogoub, C. Menager, *Mol. Pharmaceutics*, **2017**, *14*, 406-414.
- 105 - **Contribution of shape and charge to the inhibition of a family GH99 *endo- $\alpha$ -1,2-mannanase*** M. Petricevic, L. Sobala, P. Fernandes, L. Raich, A. Thompson, G. Bernardo-Seisdedos, O. Millet, S. Zhu, M. Sollogoub, J. Jimenez-Barbero, C. Rovira, G. Davies, S. Williams, *J. Am. Chem. Soc.* **2017**, *139*, 1089-1097
- 104 - **Biological applications of hydrophilic C-60 derivatives (hC(60)s)- a structural perspective**, X. Zhu, M. Sollogoub, Y. Zhang, *Eur. J. Med. Chem.* **2016**, *115*, 438-452.
- 103 - **Protonated Hexaphyrin-Cyclodextrin Hybrids: Molecular Recognition Tuned by a Kinetic-to-Thermodynamic Topological Adaptation** S. Le Gac, B. Boitrel, M. Sollogoub and M. Ménand, *Chem. Commun.*, **2016**, *52*, 9347-9350.
- 102- **Chemical sensors based on new polyamides bio-based on (Z) octadec-9-enedioic acid and  $\beta$ -cyclodextrin**, Li. Duarte, S. Nag, M. Castro, E. Zaborova, M. Ménand, M. Sollogoub, V. Bennevault, J.-F. Feller, P. Guégan, *Macromol. Chem. Phys.* **2016**, *217*, 1620-1628
- 101 - **Carbohydrate–carbohydrate interaction: from hypothesis to confirmation**, Y. Zhang, D. Lu, M. Sollogoub, Y. Zhang, *Carbohydr. Chem.* **2016**, *41*, 238-254.
- 100 - **Hexaphyrin-Cyclodextrin Hybrids: A Nest for Switchable Aromaticity, Asymmetric Confinement, and Isomorphic Fluxionality**, M. Ménand, M. Sollogoub, B. Boitrel, S. Le Gac, *Angew. Chem. Int. Ed.* **2016**, *55*, 297-301
- 99 - **Conformational Plasticity in Glycomimetics: Fluorocarbamethyl-L-idopyranosides Mimic the Intrinsic Dynamic Behaviour of Natural Idose Rings** L.Unione, B. Xu, D. Díaz, S. Martín-Santamaría, A. Poveda, J. Sardinha, A. Pilar Rauter, Y. Blériot, Y. Zhang, F. J. Canada, M. Sollogoub, J. Jiménez-Barbero, *Chem. Eur. J.* **2015**, *21*, 10513-10521

- 98 - **Synthesis of pyrrolidine-based analogues of 2-acetamidoglycosides as N-acetyl glucosaminidase inhibitors** A. T. Tran, B. Luo, J. Yerri, N. Auberger, J. Désiré, S. Nakagawa, A. Kato, Y. Zhang, Y. Blériot, M. Sollogoub, *Carbohydr. Res.* **2015**, *409*, 56-62.
- 97 -  **$\gamma$ -Aminoalcohol rearrangement applied to pentahydroxylated azepanes provides pyrrolidines epimeric to homoDMDP**, Y. Jagadeesh, Anh Tuan Tran, B. Luo, N. Auberger, J. Désiré, S. Nakagawa, A. Kato, Y. Zhang, M. Sollogoub, Y. Blériot, *Org. Biomol. Chem.* **2015**, *13*, 3446-3456
- 96 - **Synthesis and characterization of four novel 2-(trimethylsilyl)ethyl glycosides**, H. Qu, W. Sun, T. Sun, M. Sollogoub, Y. Zhang, *Res. Chem. Intermed.* **2015**, *41*, 1107-1113.
- 95 - **Cyclodextrins-Metal Hybrids**, in *Chemistry of Organo-Hybrids: Synthesis and Characterization of Functional Nano-Objects*, Chapter 15, M. Guitet, M. Ménand, M. Sollogoub, Edited by E. Lacôte, B. Charleux, C. Copéret, Wiley-VCH Verlag GmbH & Co. KGaA, **2014**
- 94 - **Synthesis of 1,2-trans 2-acetamido-2-deoxy-homoiminosugars**, Y. Blériot, Yves; A.T. Tran, G. Prencipe, Y. Jagadeesh, N. Auberger, S. Zhu, C. Gauthier, Y. Zhang, J. Désiré, I. Adachi, A. Kato, Atsushi, M. Sollogoub, *Org. Lett.* **2014**, *16*, 5516–5519
- 93 - **Synthesis of 1,2-cis homoiminosugars derived from GlcNAc and GalNAc exploiting a  $\beta$ -aminoalcohol skeletal rearrangement**, Y. Blériot, N. Auberger, Y. Jagadeesh, C. Gauthier, G. Prencipe, A. T. Tran, J. Marrot, J. Désiré, A. Yamamoto, A. Kato, M. Sollogoub, *Org. Lett.* **2014**, *16*, 5512–5515
- 92 - **Site-selective hexa-hetero-functionalization of  $\alpha$ -cyclodextrin an archetypical  $C_6$ -symmetric concave cycle**, B. Wang, E. Zaborova, S. Guieu, M. Petrillo, M. Guitet, Y. Blériot, M. Ménand, Y. Zhang M. Sollogoub *Nature Comms.* **2014**, *5*, 5354, doi: 10.1038/ncomms635
- 91 - **Gem-difluorocarbadiisaccharides: restoring the *exo*-anomeric effect**, B. Xu, L. Unione, J. Sardinha, S. Wu, M. Ethève-Quelquejeu, A. Pilar Rauter, Y. Blériot, Y. Zhang, S. Martín-Santamaría, D. Diaz, J. Jiménez-Barbero, M. Sollogoub, *Angew. Chem. Int. Ed.* **2014**, *53*, 9597-9602
- 90 - **Cyclodextrin Polyrotaxanes as a highly modular platform for the development of imaging agents**, J. W. Fredy, J. Scelle, A. Guenet, E. Morel, S. Adam de Beaumais, M. Ménand, V. Marvaud, C. S. Bonnet, E. Tóth, M. Sollogoub, G. Vives, B. Hasenknopf, *Chem. Eur. J.* **2014**, *20*, 10915-10920
- 89 - **Cyclodextrin-adamantane conjugates, self-inclusion and aggregation versus supramolecular polymer formation**, D. Ngan Tran, D. Colesnic, S. Adam de Beaumais, G. Pembouong, F. Portier, Á. Antelo Queijo, J. Vázquez Tato, Y. Zhang, M. Ménand, L. Bouteiller, M. Sollogoub, *Org. Chem. Front.* **2014**, *1*, 703-706
- 88 - **Primary, Secondary and Tertiary Azido Interactions build-up solid-state hierarchical Cyclodextrin-Based Supramolecular Polymer** *Angew. Chem. Int. Ed.* **2014**, *53*, 7238-7242, M. Ménand, S. Adam de Beaumais, L.-M. Chamoreau, E. Derat, S. Blanchard, Y. Zhang, L. Bouteiller, M. Sollogoub
- 87 - **Beta cyclodextrins bind, stabilize and remove lipofuscin bisretinoids from retinal pigment epithelium**, *Proc. Natl. Acad. Sci. U.S.A.* **2014**, *111*, 1402-1408, M. M. Nociari, G. L. Lehmann, A. E. Perez Bay, R. A. Radu, Z. Jiang, S. Goicochea, R. Schreiner, J. D. Warren, J. Shan, S. A. de Beaumais, M. Ménand, M Sollogoub, F. R. Maxfield, E. Rodriguez-Boulan

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85 - **Synthesis and Cytotoxicity Assay of Four Ganglioside GM3 Analogues**, *Eur. J. Med. Chem.* **2014**, 75, 247-257, H. Qu, J.-M. Liu, J. Wdzieczak-Bakala, D. Lu, X. He, W. Sun, M. Sollogoub, Y. Zhang

84 - **Total synthesis of a sialyl Lewisx derivative for the diagnosis of cancer**, *Carbohydr. Res.* **2014**, 383, 89-96, D. Lu, Y. Hu, X. He, M. Sollogoub, Y. Zhang

83 - **Synthesis and NMR elucidation of four novel 2-(trimethylsilyl)ethyl glycosides**, *Res. Chem. Intermed.* **2014**, 1557-1564, H. Qu, W. Sun, Y. Zhang, M. Sollogoub, Y. Zhang.

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81 - **Site-selective hetero-functionalization of Cyclodextrins, discovery, development and use for catalysis**, *Synlett* **2013**, 2629-2640, M. Sollogoub (Invited Account)

80 - **Advances in Cyclodextrin Chemistry in Modern Synthetic Methods in Carbohydrate Chemistry: From Monosaccharides to Complex Glycoconjugates**, Edited by D. B. Werz, S. Vidal, and D. Crich, Wiley-VCH Verlag GmbH & Co. KGaA, **2013**, 241-283, S. Guieu, M. Sollogoub

79 - **NHC-Capped Cyclodextrins (ICyDs): Insulated Metal Complexes, Computable Multicoordination Sphere and Cavity-Dependant Catalysis**, *Angew. Chem. Int. Ed.* **2013**, 52, 7213-7218, M. Guitet, P. Zhang, F. Marcelo, C. Tugny, J. Jiménez-Barbero, O. Buriez, C. Amatore, V. Mouriès-Mansuy, J.-P. Goddard, L. Fensterbank, Y. Zhang, S. Roland, M. Ménand, M. Sollogoub

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77 - **Diametrically opposed Carbenes on an  $\alpha$ -Cyclodextrin: synthesis, characterization of organometallic complexes and Suzuki-Miyaura coupling in ethanol and in water**, *Eur. J. Org. Chem.* **2013**, 3691-3699, M. Guitet, F. Marcelo, S. Adam de Beaumais, Y. Zhang, J. Jiménez-Barbero, S. Tilloy, E. Monflier, M. Ménand, M. Sollogoub, – **Spotlight** in *Angew. Chem. Int. Ed.* **2013**, 52, 5906-5909.

76 - **Fluoro-C-Glycosides and Fluoro-Carbasugars, Hydrolytically Stable and Synthetically Challenging Glycomimetics**, *Chem. Soc. Rev.* **2013**, 42, 4270-4283, E. Leclerc, X. Pannecoucke, M. Ethève-Quellejeu, M. Sollogoub

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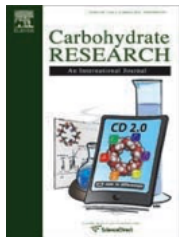
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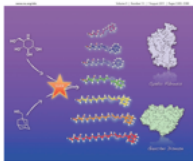
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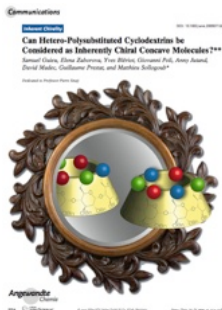


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INVITED LECTURES

- 126 - **Cyclodextrins imitating proteins**, *Southern University of Science and Technology (SUSTech)*, Shenzhen (China), December 18<sup>th</sup>, **2019**
- 125 - **Cyclodextrins imitating proteins**, *IUPAC International Symposium on Bioorganic Chemistry (ISBOC-12)*, Shenzhen (China), December 15-18<sup>th</sup>, **2019**
- 124 - **Site-selectively modified Cyclodextrins for catalysis and supramolecular assemblies**, *Shanghai Institute of Organic Chemistry (SIOC)*, Shanghai (China), December 13<sup>th</sup>, **2019**
- 123 - **Cyclodextrins imitating proteins**, *Tianjin University of Science and Technology*, Tianjin (China), December 12<sup>th</sup>, **2019**
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- 120 - **Cyclodextrins imitating proteins**, *International Carbohydrate Conference CARBO-XXXIV*, University of Lucknow, Lucknow (India), 5-7<sup>th</sup> December **2019**.
- 119 - **Organic Chemistry Provides New Opportunities for Cyclodextrins**, *Organic Chemistry in Paris, Conférences de l'Institut de Chimie du Collège de France*, September 18<sup>th</sup> **2019**
- 118 - **Selectively modified Cyclodextrins for bio-inspired applications**, *Innovation and sustainability in organic synthesis and drug development Symposium*, Università degli Studi di Pavia (Italy), September 16-17<sup>th</sup> **2019**
- 117 - **Metals encapsulated inside NHC-capped Cyclodextrins : Cavity-controlled selective reactions**, *Markovnikov Congress*, Kazan (Russia), June 23-28<sup>th</sup> **2019**
- 116 - **Des Cyclodextrines sélectivement fonctionnalisées pour des applications bio-inspirées**. *Journée scientifique de l'Université de Nantes (JSUN)*, colloque «La chimie dans les glycosciences», Nantes, June 21<sup>st</sup> **2019**
- 115 - **Selectively modified Cyclodextrins for bio-inspired applications**, *XXXII<sup>ème</sup> Journée Chimie Biologie Santé*, Université Paul Sabatier, Toulouse, April 19<sup>th</sup> **2019**
- 114 - **Cyclodextrines modifiées pour leur auto-assemblage contrôlé en vue d'applications thérapeutiques**, *Sanofi*, Chilly-Mazarin, France, February 13<sup>th</sup> **2019**.
- 113 - **New opportunities for Cyclodextrins**, *Supr@Lyon*, Lyon (France), December 12-14 **2018**
- 112 - **Functionalized Cyclodextrins for bio-inspired applications**, *Université de Namur (Belgique)*, October 10<sup>th</sup> **2018**.
- 111 - **Tailor-made Cyclodextrins for bio-inspired applications**, *29<sup>th</sup> International Carbohydrate Symposium (ICS XXIX)*, Lisboa (Portugal), July 15-18 **2018**.  
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- 110 - **Tailor-made Cyclodextrins for bio-inspired applications**, *University of Southampton*, UK, June the 29<sup>th</sup> **2018**.
- 109 – **Bespoke Cyclodextrins for catalysis and supramolecular assemblies**, *University of Oxford*, UK, June the 28<sup>th</sup> **2018**.
- 108 - **Tailor-made Cyclodextrins for catalysis and supramolecular assemblies**, *University of Bath*, UK, June the 27<sup>th</sup> **2018**.
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- 105 - **Selective functionalizations of Cyclodextrins for bio-inspired applications**, *19<sup>th</sup> International Cyclodextrin Symposium (ICS 2018)*, Tokyo (Japan), April 27-30 **2018**
- 104 - **Site-selectively modified Cyclodextrins for bio-inspired applications**, *The University of Tokyo*, Department of Chemistry, Japan, April 27<sup>th</sup> **2018**, *Zasshikai seminar*
- 103 - **Site-selectively modified Cyclodextrins for bio-inspired applications** *Kanazawa University*, Japan, April 26<sup>th</sup> **2018**
- 102 - **Site-selectively modified Cyclodextrins for bio-inspired applications** *Osaka University*, Japan, April 25<sup>th</sup> **2018**, *IOCF Yoshida lecture*
- 101 - **Site-selectively modified Cyclodextrins for bio-inspired applications** *Kyoto University*, Japan, April 24<sup>th</sup> **2018**, *IOCF Yoshida lecture*
- 100 – **Des Cyclodextrines régiosélectivement fonctionnalisées pour des applications bio-inspirées**, *ENSI Caen*, Université de Caen Normandie, Caen, 30 mars **2018**
- 99 – **Cyclodextrins specifically functionalized for catalysis**, *Université de Strasbourg*, 15 février **2018**.
- 98 - **Selective functionalizations of Cyclodextrins for bio-inspired applications**, *CARBO-XXXII "Emerging Chemistry and Biology of Carbohydrates" (ECBC-2017)*, Kharagpur, West Bengal (India) December 18-20 **2017**  
*Conférence plénière*
- 97 - **Site-selectively modified Cyclodextrins for site-selective catalysis**, *CHAINS*, Veldhoven (The Netherlands) 5-7 December **2017**
- 96 - **Fonctionnalisations sélectives des cyclodextrines pour la catalyse et l'architecture supramoléculaire**, *18<sup>èmes</sup> Journées des Cyclodextrines*, Lens, 28-29 novembre **2017**  
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- 95 - **Fonctionnalisation régiosélective des cyclodextrines pour la catalyse et l'architecture supramoléculaire** *Université de Bretagne Occidentale*, Brest, 4 octobre **2017**

94 - **Cyclodextrins for bioinspired applications in supramolecular assemblies and catalysis**, *University of Twente*, Enschede (The Netherlands) 29th June **2017**

93 - **Solving a synthetic challenge on Cyclodextrins to access bioinspired applications**, *Journée des Doctorants de l'Ecole Doctorale Chimie & Sciences du Vivant (ED 218)*, Grenoble, 15 juin **2017**

92 - **Methodology in modifications of Cyclodextrins for bioinspired applications in supramolecular assemblies and catalysis**, *Markovnikov's Readings WSOC-2017*, Krasnoyarsk (Russia), 13-18 January **2017**

*Conférence plénière*

91 - **Cyclodextrins site-specifically modified for supramolecular assemblies and catalysis**, *University of Toronto*, Toronto (Canada), 25<sup>th</sup> November **2016**

90 - **Site-specific modifications of Cyclodextrins for supramolecular assemblies and catalysis**, *Université de Montréal*, Montréal (Canada), 24<sup>th</sup> November **2016**

89 - **Cyclodextrins selectively modified for bio-inspired applications**, *Tufts University*, Boston (USA), 22<sup>nd</sup> November **2016**

88 - **Site-selective reactions on highly symmetric molecules: cyclodextrins. Methodology and applications** *Northeastern University*, Boston (USA), 21<sup>st</sup> November **2016**

87 - **Fonctionnaliser les cyclodextrines pour étendre leur champ d'application**, *Faculté de Pharmacie de Châtenay-Malabry*, *Université Paris-Sud*, Châtenay-Malabry, 6 juin **2016**

86 - **Metals@Cyclodextrin Topological control and catalysis**, *Dombay Organic Conference Cluster DOCC-2016*, Russia, 29<sup>th</sup> of May-3<sup>rd</sup> of June **2016**

85 - **Regioselective Functionalization of Cyclodextrins for Catalysis and Supramolecular Assemblies**, *Annual meeting of the Working Committee for Carbohydrates, Nucleic Acids and Antibiotics of the Hungarian Academy of Sciences*, Mátraháza, Hungaria, May 25–27 **2016**

*Conférence plénière*

84 - **Synthesis of site-specifically modified Cyclodextrins for supramolecular assemblies and catalysis**, *6<sup>èmes</sup> Rencontres Scientifiques des Doctorants en Chimie de Marseille*, Marseille, 19-20 mai **2016**

83 - **Questions biologiques, solutions chimiques: analogues de sucres, cyclodextrines fonctionnelles**, *Journée scientifique du programme doctoral Interfaces Pour le Vivant*, UPMC, Paris, 7 avril **2016**

82 - **Carbasugars: convenient probes for anomeric effects & enzyme mechanisms**, *Glycosyl Cation Day*, Université de Poitiers, 14 décembre **2015**

81 - **Fonctionnalisations sélectives des cyclodextrines pour la catalyse et l'architecture supramoléculaire**, *Demi-journée de glycochimie de l'Institut des Biomolécules Max Mousseron*, Université de Montpellier, 20 novembre **2015**



- 80 - **Les Cyclodextrines polyfonctionnelles : méthodologie, synthèse, assemblage et catalyse**, *JED 2015*, 1<sup>ère</sup> édition de la Journée de l'Ecole Doctorale 2MIB de Paris-Saclay, Ecole Polytechnique, 24 novembre **2015**
- 79 - **Supramolecular assemblies of functionalized cyclodextrins**, Supramolecular Chemistry Lectures, *Universität des Saarlandes/Technische Universität Kaiserslautern*, Saarland (Germany), 30 septembre **2015**
- 78 - **The cyclic conundrum solved: synthesis and applications of site-selectively modified cyclodextrins with up to 6 different functions**, 18<sup>th</sup> *European Carbohydrate Symposium*, Moscow (Russia), August 2-6, **2015**  
*Keynote Lecture*
- 77 - **Site-Directed Modifications of Cyclodextrins for Hierarchical Self-Assembly**, *Gordon Research Conference Carbohydrates*, Mount Snow, West Dover, VT (USA), June 14-19, **2015**
- 76 - **Up to 6 different functions on cyclodextrins: selective synthesis and applications in materials and catalysis**, *Université Paris Diderot*, Paris, 20 février **2015**
- 75 - **Fonctionnalisation précise des Cyclodextrines pour des applications en catalyse et en matériaux**, *CNRS, Institut de Chimie et des Matériaux Paris-Est*, Thiais, 5 décembre **2014**
- 74 - **Site-selective reactions on cyclodextrins, applications to catalysis and supramolecular assemblies**, *Achievements and Challenges of Modern Chemistry Conference School*, St Petersburg (Russia), 10-13 november **2014**.  
*Conférence Plénière*
- 73 - **Supramolecular assemblies of functionalized cyclodextrins**, *Supranano; Soft Mater*, Paris, 29 octobre **2014**
- 72 - **Up to 6 different functions on cyclodextrins: selective synthesis and applications in materials and catalysis**, *International Cyclodextrin Symposium (ICS<sup>17</sup>)*, Saarland (Germany), 28-31<sup>st</sup> may **2014**.  
*Opening Plenary Lecture*
- 71 - **Multifonctionnalisations dirigées des cyclodextrines pour les biomatériaux et la catalyse**, *Université Claude Bernard Lyon*, Lyon, 20 mars **2014**.
- 70 - **Cyclodextrin chemistry tamed, methods and applications**, Collaborative Research Center (SFB) 765 "Multivalency as chemical organisation and action principle: New architectures, functions and applications", *Free University of Berlin*, (Germany), 11 february **2014**
- 69 - **1 out of 7826, very high regioselectivity in cyclic oligosaccharide modifications**, 27<sup>th</sup> *International Carbohydrate Symposium (ICS27)*, Bangalore (India), 12-17 janvier **2014**.
- 68 - **Site-selective functionalizations of cyclodextrins, methods & applications**, *University of Tokyo* (Japan), 13 december **2013**.

- 67 - **Site-directed reactions to functionalize cyclic molecules: the case of cyclodextrins**, *Tokyo Institute of Technology*, Tokyo (Japan), 12 december **2013**.
- 66 - **Hetero-multifunctionalization of cyclodextrins, use in catalysis and biomaterials**, *Osaka University* (Japan), 10 december **2013**.
- 65 - **Site-Selectivity in Cyclodextrin chemistry, use in catalysis**, *Kyoto University (Katsura campus)* Kyoto (Japan), 9 december **2013**.
- 64 - **Site-selective hetero-functionalization of Cyclodextrins, discovery, development and use for catalysis**, *Wayne State University*, Detroit (USA), 6 novembre **2013**
- 63 - **Site-selective reactions on highly symmetric molecules: cyclodextrins. Methodology and applications**, *University of Illinois at Chicago*, Chicago (USA), 5 novembre **2013**.
- 62 - **Regioselective reactions on Cyclodextrins**, *University of Missouri-St Louis*, St Louis (USA), 4 novembre **2013**.
- 61 - **Cyclodextrines multifonctionnelles, synthèses dirigées et applications**, *Académie des Sciences*, Paris, 15 octobre **2013**.
- 60 - **Cyclodextrines multi fonctionnelles pour les biomatériaux et la catalyse**, *ESPCI-ParisTech*, Paris, 15 mars **2013**.
- 59 - **Cyclodextrines multifonctionnelles**, *Faculté de Pharmacie, Université Paris Sud*, Châtenay-Malabry, 6 février **2013**.
- 58 - **Cyclodextrines fonctionnelles: réticulants, catalyseurs et cavitands**, *ENS Lyon*, 6 décembre **2012**.
- 57 - **Taylor-made Cyclodextrins, methodology and applications**, *Université de Genève*, Suisse, 18 octobre **2012**.
- 56 - **Fonctionnalisations de Cyclodextrines pour la catalyse, l'encapsulation et les biomatériaux** *Université Paul Sabatier*, Toulouse, 12 octobre **2012**.
- 55 - **Cyclodextrin functionalisation for catalysis**, *International conference: Catalysis in Organic Synthesis (ICCOS 2012)*, Moscou (Russie), 15-20 septembre **2012**.
- 54 - **Cyclodextrines multi-fonctionnalisées, méthodologie et applications**, *Groupe d'étude de Chimie Organique (GECO53)*, Annecy, 26-31 août **2012**  
*Conférence plénière*
- 53 - **Recent developments in sugar mimickry: new fluorocarbasugars and iminosugars**, *26<sup>th</sup> International Carbohydrate Symposium (ICS)*, Madrid (Spain), 22-27 juillet **2012**.
- 52 - **Cyclodextrines multi-fonctionnelles, synthèses et propriétés**, *Université de Montpellier 2*, Montpellier, 21 juin **2012**.

51 - **Cyclodextrins, Selective Modifications & Applications**, *The French American Chemical Society-FACS XIV*, Nantasket Beach Resort, Massachusetts (USA), 10-14 June **2012**

*Conférence plénière*

50 - **Cyclodextrines modifiées pour la catalyse, l'encapsulation et les biomatériaux**, *Aix-Marseille Université*, Marseille, 31 mai **2012**.

49 - **Glycochimie organique, biologique et supramoléculaire**, *Glyco-Sciences Normandie 2012*, Le Havre, 25 mai **2012**

*Conférence plénière*

48 - **Cyclodextrines multi-fonctionnalisées, méthodologie et applications** 24<sup>èmes</sup> *Journées du Groupe Français des Glycosciences (GFG 2012)*, Domaine du Val-Joly, 21-25 Mai **2012**

*Conférence plénière*

47 - **Cyclodextrines multi-fonctions, synthèses et propriétés**, *Université de Bourgogne*, Dijon, 20 avril **2012**

46 - **Les Cyclodextrines, des substances naturelles modulables**, *ICSN*, 12 janvier **2012**

45 - **Novel iminosugars as inhibitors and chemical chaperones of NAGLU**, *MPS 2011 International Congress*, Geneva (Swiss), 8-10 december **2011**

*Conférence plénière*

44 - **Rencontre autour de la Chimie des Substances Naturelles, les sucres et leurs applications**, Conférence d'ouverture du cycles de rencontres citoyennes à l'UPMC « *Sciences à Cœur* » saison 4, 24 novembre **2011**

43 - **"Carbohydrate Research Award Lecture", New opportunities for Cyclodextrins**, 16<sup>th</sup> *European Carbohydrate Symposium*, Sorrento (Italy), July 3-7, **2011**

*Conférence plénière d'ouverture*

42 - **Cyclodextrins, selective modifications & applications**, *The Scripps Research Institute*, La Jolla San Diego (USA), 9 juin **2011**

41 - **Some possibilities offered by carbohydrate and cyclodextrin chemistry**, *Weil Cornell Medical School*, New York (USA), 8 juin **2011**

40 - **La chimie des sucres appliquée aux cyclodextrines : nouvelles réactions de fonctionnalisation sélectives et applications**, *Glucidoc*, Sète (France), 3-6 mai **2011**

*Conférence plénière*

39 - **Cyclodextrines multifonctionnelles chirales synthèse et propriétés**, *Université de Poitiers*, 7 avril **2011**

38 - **Fonctionnalisations sélectives de cyclodextrines, pseudo-enantiométrie, catalyse et réticulation**, *Université de Rouen*, 18 mars **2011**

- 37 - **Taylor-modified Cyclodextrins**, *University of Oxford*, (UK), 10 mars 2011
- 36 - **Cyclodextrins modified for catalysis & biomaterials**, *University of Southampton*, (UK), 9 mars 2011
- 35 - **Selective modification of Cyclodextrins : chirality, catalysis, cross-linkers**, *CD2010, 13<sup>èmes</sup> journées du Club Français des Cyclodextrines*, Dunkerque, 9 et 10 décembre 2010  
*Conférence plénière*
- 34 - **Cyclodextrins : regioselective modifications & applications to catalysis and biomaterials**, *Supramolecular Chemistry symposium in honor of Julius Rebek*, Orsay, 30 Septembre 2010  
*Conférence plénière*
- 33 – **Regioselective modifications of cyclodextrins for catalysis and biomaterials**, *University of Pennsylvania*, Philadelphia (USA), 22 juillet 2010
- 32 - **Cyclodextrins regioselectively modified, applications to catalysis and biomaterials**, *Memorial Sloan-Kettering Cancer Center*, New-York (USA), 21 juillet 2010
- 31 - **Sugar Mimics, synthesis and Applications**, *Universidade de Santiago de Compostella* (Espagne), 7 juillet 2010
- 30 - **Teaching chemistry at UPMC: Master degree to Doctorate School**, *Universidade de Santiago de Compostella* (Espagne), 6 juillet 2010
- 29 - **New modifications of cyclodextrins, application to catalysis and biomaterials**, *Universidade de Santiago de Compostella* (Espagne), 6 juillet 2010
- 28 - **Cyclodextrines multifonctionnelles chirales synthèse et propriétés**, *Université d'Artois*, Lens, 1<sup>er</sup> juillet 2010
- 27 - **Les Cyclodextrines sont facilement fonctionnalisables; illustration et applications** *CEA Saclay*, 28 juin 2010
- 26 - **Cyclodextrines modifiées pseudo-chirales, applications en catalyse et biomatériaux**, *Université Libre de Bruxelles* (Belgique), 26 mars 2010.
- 25 - **Update on Cyclodextrin modifications and applications**, *University of Copenhagen*, Copenhague (Danemark), 12 mars 2010
- 24 - **Cyclodextrins with pseudo-inherent chirality for catalysis and biomaterials**, *Univesität Zürich* (Suisse), 9 mars 2010.
- 23 – **Conception de mimes de sucres pour interagir avec des proteines**, *Journée de la Société de Chimie Thérapeutique*, 2009  
*Conférence plénière*

22 - **Cyclodextrins Designed to Assemble With Modified Biopolymers**, *1<sup>st</sup> French-Canadian Workshop in Supramolecular Chemistry*, Montréal (Canada)-Paris, 15-17 juillet **2009**

*Plenary lecture*

21 - **Carving cyclodextrins for catalysis and biomaterials**, *European Network of chemical doctoral studies*, Milan (Italie), 20-22 mai **2009**

*Plenary lecture*

20 - **Cyclodextrines chirales pour la catalyse et les biomatériaux**, *Université de Reims Champagne-Ardenne*, Reims, 17 avril **2009**

19 - **Some possibilities offered by Glycochemistry**, *Russian Academy of Sciences, Ovshnikov Institute of Bioorganic Chemistry*, Moscou (Russie), 14 novembre **2008**

18 - **Use of cyclodextrin's carving with Aluminium tools**, *University of Copenhagen*, Copenhagen (Danemark), 20 octobre **2008**

17 - **Cyclodextrines ciselées à l'Aluminium, applications en catalyse et polymères**, *Aix-Marseille Université*, Marseille, 3 octobre **2008**

16 - **Carving cyclodextrins with aluminium**, *IV Iberian Carbohydrate meeting*, Santiago de Compostela (Espagne), 10-12 september **2008**

*Plenary lecture*

15 - **Pont-à-bascule et déoxy-sucres, deux stratégies de fonctionnalisation de cyclodextrines**, *Université Paris Descartes*, 25 janvier **2008**

14 - **Cyclodextrines ciselées par l'aluminium**, *ICMMO, Université Paris-Sud 11*, Orsay, 11 décembre **2007**.

13 - **From sugars to carbasugars, a rearrangement strategy**, *GLUPOR 7, ITQB*, Oeiras (Portugal), 12-15 septembre **2007**.

12 - **Bascule-bridge or deoxysugars: New access to polyfunctionalised Cyclodextrins**, *National University of Ireland, Maynooth* (Irlande), 11 juillet **2007**

11 - **Fonctionnalisations dirigées de cyclodextrines**, *Université Louis Pasteur*, Strasbourg, 25 mai **2007**

10 - **Carbocyclisations and regioselective deprotections**, *CERC-3*, Dublin (Irlande), 27-29 mars, **2007**, M. Sollogoub

9 - **Aluminium a versatile reagent for sugar chemistry: Carbasugars and functionalised cyclodextrins**, *Centro de Investigaciones Biológicas, CSIC*, Madrid (Espagne), 10 novembre **2006**

8 - **Multifonctionnalisations sélectives de cyclodextrines par l'aluminium**, *Université de Caen - ENSICAEN*, Caen, 12 mai **2006**

**7 - Pince oxygénée, scalpel en aluminium : deux outils pour une chirurgie moléculaire des sucres**, Université d'Orléans, Orléans, 11 janvier **2006**

**6 - Protection et déprotection des Sucres: processus fastidieux ou chirurgie moléculaire**, Université Paul Sabatier, Toulouse, 16 mai **2005**

**5 - Déprotection sélective des sucres par l'Aluminium: synthèse de nouveaux objets chiraux**, ENSCP/Institut Curie, Paris, 10 mai **2005**

**4 - Carbocyclisation of Sugars**, European Network on Glycidic Scaffolds, HPRN-CT-2002-00173, Paris, 25 mars **2005**

**3 - L'Aluminium : un véritable scalpel pour les sucres perbenzylés**, CERMAV, Université Joseph Fourier, Grenoble, 8 juin **2004**

**2 - Aluminium and sugars: rearrangements and deprotections**, Peking University, Health Science Center, Beijing (Chine), 21 mai **2004**

**1 - Aluminium et sucres : transpositions et déprotections**, Université de Picardie Jules Verne, Amiens, 9 avril **2003**