

## Dr. Ivan JABIN

Date of Birth: Dec. 17, 1968      Nationality: French

*Université Libre de Bruxelles (U.L.B.)*

*Laboratoire de Chimie Organique, Av. F. D. Roosevelt 50 CP160/06, B-1050 Brussels, BELGIUM*

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## WORK EXPERIENCE

### Oct. 06/present      Professor

**Head of the Organic Chemistry Laboratory** - Université Libre de Bruxelles (ULB), Belgium.

**Themes:** *syntheses and study of new calix[6]arene based receptors. Use of calixarenes for surface and nanomaterials functionalization, in chiral recognition, biomimetism and as sensors.*

### Jul. 13/present      Chief Scientific Officer (CSO)

Spin-Off X4C (<http://x4c.eu/>), Belgium

### Sept. 98/sept 06      Assistant Professor (Maître de Conférences)

**Head of the Supramolecular Chemistry research group** - University of Le Havre, Unité de Recherche en Chimie Organique et Macromoléculaire, France.

Research on *the synthesis and study of new calix[6]arene based receptors.*

### Jan. 98/aug. 98      Post-doctoral position in Organic/Macrocyclic Chemistry

Conservatoire National de Paris des Arts et Métiers, Lab. of the Nuclear Sciences, Paris, France.

Research on *the synthesis of macrocyclic N-ligands for the separation of actinides vs lanthanides.*

Supervisors: Pr. A. Guy et Pr. J. Foos.

### Oct. 96/Dec. 97      Post-doctoral position in Organic/Medicinal Chemistry

Lehigh University, Bethlehem, PA, USA.

Research on *the synthesis of novel photo-therapeutic agents.*

Supervisor: Pr. N. D. Heindel.

### Sept. 93/Sept. 96      Ph.D. in Organic Chemistry

University of Paris VI, France. Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI), Laboratory of Organic Chemistry, (UMR 7084).

Thesis: *"Enantioselective Michael-type reaction of functionalized chiral cyclanone imines with substituted electrophilic olefins. Synthetic applications in the terpene field".*

Advisor: Dr. M. Pfau, Research Director at CNRS.

## EDUCATION

### July. 2004      Habilitation

University of Le Havre, Unité de Recherche en Chimie Organique et Macromoléculaires, France.

### Sept. 96      Ph.D. in Organic Chemistry

University of Paris VI, Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI), France. Laboratory of Organic Chemistry (UMR 7084).

Advisor: Dr. M. Pfau, Research Director at CNRS.

### June 92      M.S. in Organic Chemistry

Diplôme d'Etudes Approfondies (DEA), University of Paris VI, France.

ESPCI, Laboratory of Organic Chemistry, (UMR 7084).

Same place and direction as above.

## TEACHING EXPERIENCE

### Courses:

- Organic Chemistry (B.S., M.S. levels)
- Supramolecular Chemistry (M.S. level)
- Asymmetric Synthesis (M.S. level)
- Medicinal Chemistry (B.S. level)
- 2D NMR Spectroscopy (M.S. level)

## PUBLICATIONS

**Author of 140 publications, 4 book chapters and 7 international patents.**

**32 invited oral presentations**

### Selected publications (2005 -2024):

- Le Gac, S.; Zeng, X.; Reinaud, O.; Jabin, I. *J. Org. Chem.* **2005**, *70*, 1204-1210.
- Izzet, G.; Douziech, B.; Prangé, T.; Tomas, A.; Jabin, I.; Le Mest, Y.; Reinaud, O. *Proc. Nat. Acad. Sci.* **2005**, *102*, 6831-6836.
- Darbost, U.; Rager, M.-N.; Petit, S.; Jabin, I.; Reinaud, O. *J. Am. Chem. Soc.* **2005**, *127*, 8517-8525.
- Darbost, U.; Zeng, X.; Giorgi, M.; Jabin, I. *J. Org. Chem.* **2005**, *70*, 10552-10560.
- Le Gac, S.; Marrot, J.; Reinaud, O.; Jabin, I. *Angew. Chem., Int. Ed. Engl.* **2006**, *45*, 3123-3126.
- Zeng, X.; Coquière, D.; Alenda, A.; Garrier, E.; Prangé, T.; Li, Y.; Reinaud, O.; Jabin, I. *Chem. Eur. J.* **2006**, *12*, 6393-6402.
- Le Gac, S.; Zeng, X.; Girardot, C.; Jabin, I. *J. Org. Chem.* **2006**, *71*, 9233-9236.
- Izzet, G.; Zeng, X.; Over, D.; Douziech, B.; Zeitouny, J.; Giorgi, M.; Jabin, I.; Le Mest, Y.; Reinaud, O. *Inorg. Chem.* **2007**, *46*, 375-377.
- Darbost, U.; Sénèque, O.; Li, Y.; Bertho, G.; Marrot, J.; Rager, M.-N.; Reinaud, O.; Jabin, I. *Chem. Eur. J.* **2007**, *13*, 2078-2088.
- Le Gac, S.; Jabin, I. *Chem. Eur. J.* **2008**, *14*, 548-557.
- Le Gac, S.; Marrot, J.; Jabin, I. *Chem. Eur. J.* **2008**, *14*, 3316-3322.
- Hamon, M.; Ménand, M.; Le Gac, S.; Luhmer, M.; Dalla, V.; Jabin, I. *J. Org. Chem.* **2008**, *73*, 7067-7071.
- Izzet, G.; Zeitouny, J.; Akdas-Killig, H.; Frapart, Y.; Ménage, S.; Douziech, B.; Jabin, I.; Le Mest, Y.; Reinaud, O. *J. Am. Chem. Soc.* **2008**, *130*, 9514-9523.
- Le Gac, S.; Ménand, M.; Jabin, I. *Org. Lett.* **2008**, *10*, 5195-5198.
- Ménand, M.; Jabin, I. *Org. Lett.* **2009**, *11*, 673-676.
- Coquière, D.; Le Gac, S.; Darbost, U.; Sénèque, O.; Jabin, I.; Reinaud, O. *Org. Biomol. Chem.*, **2009**, *7*, 2485-2500.
- Ménand, M.; Leroy, A.; Marrot, J.; Luhmer, M.; Jabin, I. *Angew. Chem., Int. Ed. Engl.* **2009**, *48*, 5509-5512.
- Le Poul, N.; Douziech, B.; Zeitouny, J.; Thiabaud, G.; Colas, H.; Conan, F.; Cosquer, N.; Jabin, I.; Lagrost, C.; Hapiot, P.; Reinaud, O.; Le Mest, Y. *J. Am. Chem. Soc.* **2009**, *131*, 17800-17807.
- Ménand, M.; Jabin, I. *Chem. Eur. J.* **2010**, *16*, 2159-2169.
- Moerkerke, S.; Ménand, M.; Jabin, I. *Chem. Eur. J.* **2010**, *16*, 11712-11719.
- Gomila, A.; Le Poul, N.; Cosquer, N.; Kerbaol, J.-M.; Noël, J.-M.; Reddy, M. T.; Jabin, I.; Reinaud, O.; Conan, F.; Le Mest, Y. *Dalton Trans.* **2010**, *39*, 11516-11518.
- Mattiuzzi, A.; Jabin, I.; Moucheron, C.; Kirsch-De Mesmaeker, A. *Dalton Trans.* **2011**, *40*, 7395-7402.
- Lejeune, M.; Picron, J.-F.; Mattiuzzi, A.; Lascaux, A.; De Cesco, S.; Brugnara, A.; Thiabaud, G.; Darbost, U.; Colasson, B.; Reinaud, O.; Jabin, I. *J. Org. Chem.*, **2012**, *77*, 3838-3845.
- Mattiuzzi, A.; Jabin, I.; Mangeney, C.; Roux, C.; Reinaud, O.; Santos, L.; Bergamini, J.F.; Hapiot, P.; Lagrost, C. *Nat. Commun.* **2012**, *3*, 1130.

- Mattiuzzi, A.; Marcélis, L.; Jabin, I.; Moucheron, C.; Kirsch-De Mesmaeker, A. *Inorg. Chem.* **2013**, *52*, 11228–11236.
- Inthasot, A.; Dang Thy, M.-D.; Lejeune, M.; Fusaro, L.; Reinaud, O.; Luhmer, M.; Colasson, B.; Jabin, I. *J. Org. Chem.*, **2014**, *79*, 1913-1919.
- Rebarz, M.; Marcélis, L.; Ménand, M.; Cornut, D.; Moucheron, C.; Jabin, I.; Kirsch - De Mesmaeker, A. *Inorg. Chem.* **2014**, *53*, 2635-2644.
- Hamon, M.; Dickinson, N.; Devineau, A.; Bolien, D.; Tranchant, M.-J.; Taillier, C.; Jabin, I.; Harrowven, D.C.; Whitby, R.J.; Ganesan A.; Dalla V. *J. Org. Chem.* **2014**, *79*, 1900-1912.
- Brunetti, E.; Picron, J.-F.; Flidrova, K.; Bruylants, G.; Bartik, K.; Jabin, I. *J. Org. Chem.* **2014**, *79*, 6179-6188.
- Santos, L. Mattiuzzi, A.; Jabin, I.; Vandencastele, N.; Reniers, F.; Reinaud, O.; Hapiot, P.; Lhenry, S.; Leroux, Y.; Lagrost, C. *J. Phys. Chem. C*, **2014**, *118*, 15919-15928.
- Lavendomme R.; Leroy, A.; Luhmer, M.; Jabin, I. *J. Org. Chem.* **2014**, *79*, 6563-6570.
- Cornut, D.; Moerkerke, S.; Wouters, J.; Bruylants, G.; Jabin, I. *Chem. Asian J.* **2015**, *10*, 440-446.
- Danjou, P.-E.; De Leener, G.; Cornut, D.; Moerkerke, S.; Mameri, S.; Lascaux, A.; Wouters, J.; Brugnara, A.; Colasson, B.; Reinaud, O.; Jabin, I. *J. Org. Chem.* **2015**, *80*, 5084-5091.
- Lavendomme, R.; Zahim, S.; De Leener, G.; Inthasot, A.; Mattiuzzi, A.; Luhmer, M.; Reinaud, O.; Jabin, I. *Asian J. Org. Chem.* **2015**, *4*, 710-722.
- Le Poul, N.; Le Mest, Y.; Jabin, I.; Reinaud, O. *Acc. Chem. Res.* **2015**, *48*, 2097-2106.
- Moerkerke, S.; Wouters, J.; Jabin, I. *J. Org. Chem.* **2015**, *80*, 8720-8726.
- Lavendomme, R.; Cragg, P.J.; Marcos, P.M.; Luhmer, M.; Jabin, I. *Org. Lett.* **2015**, *17*, 5690-5693.
- Inthasot, A.; Brunetti, E.; Lejeune, M.; Ménard, N.; Prangé, T.; Fusaro, L.; Bruylants, G.; Reinaud, O.; Luhmer, M.; Jabin, I.; Colasson, B. *Chem. Eur. J.* **2016**, *22*, 4855-4862.
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- Troian-Gautier, L.; Valkenier, H.; Mattiuzzi, A.; Jabin, I.; Van den Brande, N.; Van Mele, B.; Hubert, J.; Reniers, F.; Bruylants, G.; Lagrost, C.; Leroux, Y. *Chem. Commun.* **2016**, *52*, 10493-10496.
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- Troian-Gautier, L.; Martinez-Tong, D.; Hubert, J.; Reniers, F.; Sferrazza, M.; Mattiuzzi, A.; Lagrost, C.; Jabin, I. *J. Phys. Chem. C* **2016**, *120*, 22936-22945.
- Lavendomme, R.; Marcélis, L.; Wouters, J.; Luhmer, M.; Jabin, I. *Chem. Commun.* **2016**, *52*, 14109-14112.
- Lavendomme, R.; Malytskyi, V.; Vandermeersch, J.; Luhmer, M.; Jabin, I. *Synthesis* **2017**, *49*, 1009-1023.
- Lavendomme, R.; Ajami, D.; Moerkerke, S.; Wouters, J.; Rissanen, K.; Luhmer, M.; Jabin, I. *Chem. Commun.* **2017**, *53*, 6468-6471.
- Valkenier, H.; Malytskyi, V.; Blond, P.; Retout, M.; Mattiuzzi, A.; Goole, J.; Raussens, V.; Jabin, I.; Bruylants, G. *Langmuir* **2017**, *33*, 8253-8259.
- De Leener, G. ; Over, D. ; Smet, C. ; Cornut, D. ; Gabriel Porrás-Gutierrez, A. ; López, I. ; Douziech, B. ; Le Poul, N. ; Topić, F. ; Rissanen, K. ; Le Mest, Y. ; Jabin, I. ; Reinaud, O. *Inorg. Chem.* **2017**, *56*, 10971-10983.
- Inthasot, A.; Le Poul, N.; Luhmer, M.; Colasson, C.; Jabin, I.; Reinaud, O. *Inorg. Chem.* **2018**, *57*, 3646-3655.
- Blond, P.; Mattiuzzi, A.; Valkenier, H.; Troian-Gautier, L.; Bergamini, J.-F.; Doneux, T.; Goormaghtigh, E.; Raussens, V.; Jabin I. *Langmuir* **2018**, *34*, 6021-6027.
- Collin, S.; Parrot, A.; Marcelis, L.; Brunetti, E.; Jabin, I.; Bruylants, G.; Bartik, K.; Reinaud, O. *Chem. Eur. J.* **2018**, *24*, 17964-17974.
- Grauwels, G.; Valkenier, H.; Davis, A. P.; Jabin, I.; Bartik, K. *Angew. Chem. Int. Ed.* **2019**, *58*, 6921-6925.
- Zahim, S.; Ajami, D.; Laurent, P.; Valkenier, H.; Reinaud, O.; Luhmer, M.; Jabin, I. *ChemPhysChem* **2020**, *21*, 83-89.
- Bazzoni, M.; Terenziani, F.; Secchi, A.; Cera, G.; Jabin, I.; De Leener, G.; Luhmer, M.; Arduini, A. *Chem. Eur. J.* **2020**, *26*, 3022-3025.

- Mattiuzzi, A.; Troian-Gautier, L.; Reinaud, O.; Lagrost, C.; Jabin, I. *Org. Biomol. Chem.* **2020**, *18*, 3624-3637.
- Mattiuzzi, A.; Troian-Gautier, L.; Mertens, J.; Reniers, F.; Bergamini, J.-F.; Lenne, Q.; Lagrost, C.; Jabin, I. *RSC Adv.* **2020**, *10*, 13553-13561.
- Mattiuzzi, A.; Lenne, Q.; Carvalho Padilha, J.; Troian-Gautier, L.; Leroux, Y.; Jabin, I.; Lagrost, C. *Front. Chem.* **2020**, *8*:559.
- Renier, N.; Reinaud, O.; Jabin, I.; Valkenier, H. *Chem. Commun.* **2020**, *56*, 8206-8209.
- Lambert, S.; Bartik, K.; Jabin, I. *J. Org. Chem.* **2020**, *85*, 10062-10071.
- Blond, B.; Bevernaegie, R.; Troian-Gautier, L.; Lagrost, C.; Hubert, J.; Reniers, F.; Raussens, V.; Jabin, I. *Langmuir* **2020**, *36*, 12068-12076.
- Lenne, Q.; Mattiuzzi, A.; Jabin, I.; Le Poul, N.; Leroux, Y. R.; Lagrost, C. *Adv. Mat. Interfaces* **2020**, *7*, 2001557.
- Retout, M.; Blond, P.; Jabin, I.; Bruylants, G. *Bioconjugate Chem.* **2021**, *32*, 290-300.
- Retout, M.; Jabin, I.; Bruylants, G. *ACS Omega* **2021**, *6*, 19675-19684.
- Brunetti, E.; Marcelis, L.; Zhurkin, F. E.; Luhmer, M.; Jabin, I.; Reinaud, O.; Bartik, K. *Chem. Eur. J.* **2021**, *27*, 13730-13738.
- Nyssen, N.; Ajami, D.; Ardelean, A.; Desroches, F.; Li, J.; Luhmer, M.; Reinaud, O.; Jabin, I. *J. Org. Chem.* **2021**, *86*, 12075-12083.
- Retout, R.; Gosselin, B.; Mattiuzzi, A.; Ternad, I.; Jabin, I.; Bruylants, G. *ChemPlusChem* **2022**, *87*, e202100450.
- Lenne, Q.; Retout, R.; Gosselin, B.; Bruylants, G.; Jabin, I.; Hamon, J.; Lagrost, C.; Leroux, Y. *Chem. Commun.* **2022**, *58*, 3334-3337.
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- Retout, M.; Cornelio, B.; Bruylants G.; Jabin, I. *Langmuir* **2022**, *38*, 9301-9309.
- Carpentier, R.; Lambert, S.; Brunetti, E.; Jabin, I.; Bartik, K. *J. Org. Chem.* **2022**, *87*, 12749-12758.
- Lavendomme, R.; Jabin, I. *Cell Reports Phys. Sci.* **2022**, *3*, 101121.
- Aoun, P.; Nyssen, N.; Richard, S.; Zhurkin, F.; Jabin, I.; Colasson, B. Reinaud, O. *Chem. Eur. J.* **2023**, e202202934.
- Ripak, A.; De Kreijger, S.; Vincent, C. A.; Cauët, E.; Jabin, I.; Tambar, U. K.; Elias, B.; Troian-Gautier, L. *Chem. Catalysis* **2023**, *3*, 100490.
- Lenne, Q.; Mattiuzzi, A.; Jabin, I.; Hamon, J.; Leroux, Y. R.; Lagrost, C. *Adv. Mat. Interfaces* **2023**, *10*, 2202219.
- Retout, M.; Gosselin B.; Jokerst, J. V.; Jabin, I.; Bruylants, G. *Colloids & Surfaces A* **2023**, *660*, 130801.
- Lenne, Q.; Mattiuzzi, A.; Jabin, I.; Troian-Gautier, L.; Hamon, J.; Leroux, Y. R.; Lagrost, C. *ChemSusChem* **2023**, *16*, e202201990.
- Lavendomme, R.; Jabin, I. *Chemistry World*, 18 May **2023**.
- Retout, M.; Gosselin, B.; Adrovic, A.; Blond, P.; Jabin, I.; Bruylants, G. *Nanoscale* **2023**, *15*, 11981-11989.
- Nyssen, N.; Giraud, N.; Wouters, J.; Jabin, I.; Leherste, L.; Reinaud, O. *Inorg. Chem. Front.* **2023**, *10*, 5772-5781.
- Lambert, S.; Bartik, K.; Jabin, I. *Org. Chem. Front.* **2023**, *10*, 4230-4242.
- Body, N.; Bevernaegie, R.; Lefebvre, C.; Jabin, I.; Hermans, S.; Riant, O.; Troian-Gautier, L. *Chem. Eur. J.* **2023**, *29*, e202301212.
- Lepeintre, M.; Champciaux, J.; Colasson, B.; Jabin, I. *J. Org. Chem.* **2024**, DOI: 10.1021/acs.joc.3c02790.
- Gosselin, B.; Bruylants, G.; Jabin, I. *ACS Appl. Nano Mater.* **2024**, DOI: 10.1021/acsanm.3c06070.
- Gosselin, B.; Retout, M.; Jabin, I.; Bruylants, G. *Sens. Diagn.* **2024**, *3*, 248-255.