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**Publications dans des Revues à comité de lecture (54)**

- (1) *Triflic acid as an efficient Brønsted acid promoter for the Umpolung of N-Ac indoles in hydroarylation reactions*, R. K. Nandi, A. Perez-Luna, D. Gori, R. Beaud, R. Guillot, C. Kouklovsky, V. Gandon, G. Vincent *Adv. Synth. Catal.*, accepted for publication.
- (2) *Revealing the Electrophilicity of N-Ac Indoles with FeCl<sub>3</sub>: a Mechanistic Study*, R. Beaud, R. K. Nandi, A. Perez-Luna, R. Guillot, D. Gori, C. Kouklovsky, N.-E. Ghermani, V. Gandon, G. Vincent *Chem. Commun.*, **2017**, 53, 5834–5837. DOI: 10.1039/c7cc02756g.
- (3) *Synthesis of allenylzinc reagents by 1,2-rearrangement of alkynyl(disilyl)zincates derived from acetylenic epoxides and acetylenic aziridines*, V. N. Bochatay, L. Debien, F. Chemla,\* F. Ferreira,\* O. Jackowski, A. Perez-Luna\* *C. R. Chimie*, **2017**, 20, 609–616. (Special Issue “New Pulses in Carbanionic Chemistry”). DOI: 10.1002/ajoc.201600501
- (4) *Asymmetric Tandem Conjugate Addition-Aldol Condensation with N-Acryloyloxazolidines derived from 2-Phenylglycinol*, I. Zelocualtecatl-Montiel, F. García-Álvarez, J. R. Juárez, L. Orea, D. Gnecco, A. Mendoza, F. Chemla, F. Ferreira, O. Jackowski, D. M. Aparicio,\* A. Perez-Luna,\* J. L. Terán\* *Asian J. Org. Chem*, **2017**, 6, 67–70.
- (5) *Stereodivergent Synthesis of  $\beta$ -Heteroatom-Substituted Vinylsilanes by Sequential Silylzincation–Copper(I)-Mediated Electrophilic Substitution*, C. Fopp, K. Isaac., E. Romain, F. Chemla, F. Ferreira, O. Jackowski, M. Oestreich,\* A. Perez-Luna\* *Synthesis*, **2017**, 49, 724–735. (featured article) DOI: 10.1055/s-0036-1588106.
- (6) *A Well-defined Low-Valent Cobalt Catalyst Co(PMe<sub>3</sub>)<sub>4</sub> with Dimethylzinc : A Simple Catalytic Approach for the Reductive Dimerization of Benzyl Halides*, B. Fallon, V. Corcé, M. Amatore, C. Aubert, F. Chemla, F. Ferreira, A. Pérez-Luna, M. Petit\* *New J. Chem.* **2016**, 40, 9912–9916.
- (7) *Domino Methylenation/Hydrogenation of Aldehydes and Ketones by Combining Matsubara's Reagent and Wilkinson's Catalyst*, R. Maazaoui, M. Pin-No, K. Gervais, R. Abderrahim, F. Ferreira, A. Perez-Luna, F. Chemla,\* O. Jackowski\* *Eur. J. Org. Chem.* **2016**, 5732–5737.
- (8) *Harnessing the Lewis Acidity of HFIP through its Cooperation with a Calcium (II) Salt: Application to the Aza-Piancatelli Reaction*, D. Leboeuf,\* L. Marin, B. Michelet, A. Perez-Luna, R. Guillot, E. Schulz, V. Gandon\* *Chem.-Eur. J.* **2016**, 22, 16165–16171.
- (9) *4-Amino-1-allenylsilanes from 4-Amino Propargylic Acetates through a Silylzincation / Elimination Sequence*, V. N. Bochatay, Z. Neouchy, F. Chemla,\* F. Ferreira,\* O. Jackowski, A. Perez-Luna\* *Synthesis* **2016**, 48, 3287–3300. (Special Issue dedicated to the memory of Professor Jean Normant)

- (10) *Stereodivergent Silylzincation of  $\alpha$ -Heteroatom-Substituted Alkynes*, C. Fopp, E. Romain, K. Isaac, F. Chemla, F. Ferreira, O. Jackowski, M. Oestreich,\* A. Perez-Luna\* *Org. Lett.* **2016**, *18*, 2054–2057.
- (11) *C-2 Alkylation and Alkenylation of Indoles Catalyzed by a Low-Valent Cobalt Complex in the Absence of Reductant*, B. J. Fallon, E. Derat, M. Amatore, C. Aubert, F. Chemla, F. Ferreira, A. Perez-Luna, M. Petit *Org. Lett.* **2016**, *18*, 2292–2295.
- (12) *tert-Butanesulfinamides as Nitrogen Nucleophiles in Carbon–Nitrogen Bond Forming Reactions*, J. Ramirez Hernandez, F. Chemla, F. Ferreira, O. Jackowski, J. Oble, A. Perez-Luna,\* G. Poli *Chimia* **2016**, *70*, 84-92. (Special Issue: “The French Connection”)
- (13) *Zinc Radical Transfer Based Modular Approach to Enantiopure Alkylidene-beta-prolines from N-(tert-Butylsulfinyl)-alpha-(aminomethyl)acrylates*, R. Beniazza, E. Romain, F. Chemla,\* F. Ferreira, O. Jackowski, A. Perez-Luna\* *Eur. J. Org. Chem.* **2015**, 7661-7665.
- (14) *Ring-Opening of N-tert-Butanesulfinyl Ethynylaziridines with Lithium Tris(dimethylphenylsilyl)zincate: Stereoselective Access to 4-Amino-1-Allenylsilanes*, V. N. Bochatay, Y. Sanogo, F. Chemla,\* F. Ferreira,\* O. Jackowski, A. Perez-Luna\* *Adv. Synth. Catal.* **2015**, *357*, 2809-2814.
- (15) *C–H activation/functionalization catalyzed by simple, well-defined low valent cobalt complexes*, B. J. Fallon, E. Derat, M. Amatore, C. Aubert, F. Chemla, F. Ferreira, A. Perez-Luna, M. Petit *J. Am. Chem. Soc.*, **2015**, *137*, 2448-2451.
- (16) *Trans-Selective Radical Silylzincation of Ynamides*, E. Romain, C. Fopp, F. Chemla, F. Ferreira, O. Jackowski, M. Oestreich,\* A. Perez-Luna\* *Angew. Chem. Int. Ed.*, **2014**, *53*, 11333-11337. Article highlighted in SYNFACTS, **2015**, *11*, 0079.
- (17) *Reactivity of tert-Butanesulfinamides in Palladium-catalyzed Allylic Substitutions*, L. Mistico, E. Ay, V. Huynh, A. Bourderieux, F. Chemla, F. Ferreira, J. Oble, A. Pérez-Luna,\* G. Poli, G. Prestat,\* *J. Organomet. Chem.*, **2014**, *760*, 124-129. (Special Issue dedicated to Professor Maria José Calhorda on the occasion of her 65<sup>th</sup> birthday).
- (18) *Conjugated Enyne Synthesis by Rearrangement of Acetylenic Epoxides Mediated by Low-valence Organo- Titanium and Zirconium Reagents*, A. Denichoux, M. Cyklinsky, F. Chemla, F. Ferreira, A. Pérez-Luna, *Synlett*, **2013**, 1001-1005.
- (19) *Homooligomers of substituted prolines and  $\beta$ -prolines: syntheses and secondary structure investigation*, C. Caumes, N. Delsuc, R. Beni Azza, I. Correia, F. Chemla, F. Ferreira, L. Carlier, A. Pérez-Luna, R. Moumné, O. Lequin, P. Karoyan, *New J. Chem.*, **2013**, *37*, 1312-1319.
- (20) *Radical Zinc Atom-Transfer Based Carbozincation of Haloalkynes with Dialkylzincs*, F. Chemla,\* F. Dulong, F. Ferreira, A. Pérez-Luna,\* *Beilstein J. Org. Chem.*, **2013**, *9*, 236-245.
- (21) *Three-carbon Homologation of Diorganozincs with Lithiated Acetylenic Epoxides*, A. Denichoux, L. Debien, M. Cyklinsky, M. Kaci, F. Chemla, F. Ferreira, A. Pérez-Luna, *J. Org. Chem.*, **2013**, *78*, 134-145.

- (22) *Metallotropic Equilibrium and Configurational Stability of 3-Chloro-1-Trimethylsilyl-Propargyl and Allenyl Metals: A Comparative Study Between Lithium, Titanium and Zinc*, J. Bejjani, C. Botuha, F. Chemla, F. Ferreira, S. Magnus, A. Pérez-Luna, *Organometallics*, **2012**, *31*, 4876-4885.
- (23) *Synthesis of Enantiopure 5-substituted 2,3-Methanopyrrolidines by Cyclization of Enantiopure  $\alpha$ -Branched  $\alpha$ -N-Homoallylamino Nitriles*, S. Ouizem, F. Chemla,\* F. Ferreira,\* A. Pérez-Luna,\* *Synlett*, **2012**, *23*, 1374-1378.
- (24) *Synthesis of (-)-Swainsonine and (-)-8-epi-Swainsonine by the Addition of Allenylmetals to Chiral  $\alpha,\beta$ -Alkoxy Sulfinylimines*, J. Louvel, F. Chemla,\* E. Demont, F. Ferreira,\* A. Pérez-Luna,\* *Org. Lett.*, **2011**, *13*, 6452-6455.
- (25) *Diastereoselective Synthesis of Enantiopure Homopropargylic N-tert-Butylsulfinylamines*, M. Cyklinsky, C. Botuha, F. Chemla, F. Ferreira, A. Pérez-Luna, *Synlett*, **2011**, 2681-2684.
- (26) *Stereoselective Synthesis of syn- $\beta$ -Amino Propargylic Ethers: Application to the Asymmetric Syntheses of (+)- $\beta$ -Conhydrine and (-)-Balanol*, J. Louvel, F. Chemla,\* E. Demont, F. Ferreira,\* A. Pérez-Luna,\* A. Voituriez, *Adv. Synth. Catal.* **2011**, *353*, 2137-2151.
- (27) *Radical Zinc Atom-Transfer Based Multicomponent Approaches to 3-Alkylidene Tetrahydrofurans*, F. Chemla,\* F. Dulong, F. Ferreira, M. P. Nüllen, A. Pérez-Luna,\* *Synthesis*, **2011**, 1347-1360 (featured article).
- (28) *Cyclization of Zincated  $\alpha$ -N-Homoallylamino Nitriles: A New Entry to Enantiopure 2,3-Methanopyrrolidines*, S. Ouizem, S. Cheramy, C. Botuha, F. Chemla, F. Ferreira, A. Pérez-Luna, *Chem.-Eur. J.*, **2010**, *16*, 12668-12677. Article highlighted in *SYNFACTS*, **2011**, *1*, 0023.
- (29) *Allenylzincs and tert-butylsulfinylimines: a fruitful marriage for synthesis*, C. Botuha, F. Chemla, F. Ferreira, J. Louvel, A. Pérez-Luna, *Tetrahedron: Asymmetry*, **2010**, *21*, 1147-1153. (Special Issue dedicated to Professor Henri B. Kagan on the occasion of his 80<sup>th</sup> birthday)
- (30) *Asymmetric Total Synthesis of (+)-6-epi-Castanospermine by the Stereoselective Formation of a syn,anti Acetylenic 2-Amino-1,3-diol Stereotriad*, J. Louvel, C. Botuha, F. Chemla, E. Demont, F. Ferreira, A. Pérez-Luna *Eur. J. Org. Chem.*, **2010**, 2921-2926. Article highlighted in *SYNFACTS*, **2010**, *9*, 0974.
- (31) *Addition of Metal Enolate Derivatives to Unactivated Carbon-Carbon Multiple Bonds* F. Denès, A. Pérez-Luna, F. Chemla *Chem. Rev.*, **2010**, *110*, 2366-2447.
- (32) *Concise Synthesis of (2S,3R)-3-Hydroxy-2-phenylpiperidine, an Advanced Key Intermediate of Human Non-peptide NK-1 Receptor Antagonists* B. Héral, F. Ferreira, C. Botuha, F. Chemla, A. Pérez-Luna *Synlett*, **2009**, 3115-3118.
- (33) *High-Yielding Synthesis of Sphingoid-Type Bases*, C. Séguin, F. Ferreira, C. Botuha, F. Chemla, A. Pérez-Luna *J. Org. Chem.*, **2009**, *74*, 6986-6992.
- (34) *Stereoselective Transformations of meso Bicyclic Hydrazines: Versatile Access to Functionalized Aminocyclopentanes*, C. Bournaud, F. Chung, A. Pérez-Luna, M. Pasco, G. Errasti, T. Lecourt, L. Micouin *Synthesis*, **2009**, 869-887.

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- (36) *Expeditious Synthesis of a Common Intermediate of L-1-Deoxyallonojirimycin and L-1-Deoxymannojirimycin*, F. Ferreira, C. Botuha, F. Chemla, A. Pérez-Luna *J. Org. Chem.*, **2009**, 74, 2238-2241.
- (37) *Stereo- and Enantioselective Synthesis of Acetylenic 2-Amino-1,3-diol Stereotriads*, A. Voituriez, A. Pérez-Luna, F. Ferreira, C. Botuha, F. Chemla *Org. Lett.*, **2009**, 11, 931-934.
- (38) *Synthesis of a Bicyclo[8.3.1]enediyne via Chromium-Mediated Dearomatization of 2,6-Bis(trimethylsilyl)anisole*, S. Lavy, A. Pérez-Luna, E. P. Kündig *Synlett*, **2008**, 2621-2624.
- (39) *Radical-Polar Crossover Domino Reaction Involving Alkynes : A stereoselective Zinc Atom Radical Transfer*, A. Pérez-Luna,\* C. Botuha, F. Ferreira, F. Chemla\* *Chem.-Eur. J.*, **2008**, 14, 8784-8788.
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- (41) *Radical-polar crossover domino reactions involving organozinc reagents and  $\beta$ -(allyloxy)-enoates*, S. Giboulot, A. Pérez-Luna,\* C. Botuha, F. Ferreira, F. Chemla\* *Tetrahedron Lett.* **2008**, 49, 3963-3966.
- (42) *Addition of a 3-alkoxy allenylzinc to N-acyliminium ions : new entry to propargyl syn-1,2-aminoalcohol units*, B. Roy, A. Pérez-Luna, F. Ferreira, C. Botuha, F. Chemla. *Tetrahedron Lett.* **2008**, 49, 1534-1537.
- (43) *Carbometalation of unactivated alkenes by zinc enolate derivatives*, A. Pérez-Luna,\* C. Botuha, F. Ferreira, F. Chemla,\* *New J. Chem.*, **2008**, 32, 594-606.
- (44) *Asymmetric Synthesis of (-)-1-Hydroxyquinolizidinone, a Common Intermediate for the Syntheses of (-)-Homopumiliotoxin 223G and (-)-Epiquinamide*, A. Voituriez, F. Ferreira, A. Pérez-Luna, F. Chemla, *Org. Lett.*, **2007**, 9, 4705-4708.
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- (49) *Synthesis of cyclopentadienyltricarbonylrhenium substituted benzhydryl species and oestrogen receptor binding properties*, D. Plazuk, F. Le Bideau, A. Pérez-Luna, E. Stéphan, A. Vessières, J. Zakrzewski, G. Jaouen, *Appl. Organometal. Chem.*, **2006**, 20, 168-174.

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- (52) *Reversal of Enantioselectivity in the Asymmetric Rhodium- versus Iridium-Catalyzed Hydroboration of Meso Substrates*, A. Pérez Luna, L. Micouin, M. Bonin, H.-P. Husson, *J. Am. Chem. Soc.*, **2002**, 124, 12098-12099.
- (53) *Enantioselective Desymmetrization of Meso Bicyclic Hydrazines : A Novel Approach to the Asymmetric Synthesis of Polysubstituted Amino Cyclopentanic Cores*, A. Pérez Luna, M.-A. Ceschi, M. Bonin, L. Micouin, H.-P. Husson, S. Gougeon, G. Estenne-Bouhtou, B. Marabout, M. Sevrin, P. George, *J. Org. Chem.*, **2002**, 67, 3522-3524.
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#### Chapitres de Livres (4)

- (1) F. Chemla, F. Ferreira, O. Jackowski, L. Micouin, A. Pérez-Luna "Carbon-Carbon Bond-Forming Reactions Mediated by Organozinc Reagents", in "Metal-Catalyzed Cross-Coupling Reactions and More ", A. de Meijere, S. Bräse, M. Oestreich (Eds.), Wiley-VCH, Weinheim, **2014**, pp 279–364.
- (2) F. Chemla, F. Ferreira, A. Pérez-Luna, L. Micouin, O. Jackowski "Carbon-Carbon Bond-Forming Reactions Mediated by Organomagnesium Reagents", in "Metal-Catalyzed Cross-Coupling Reactions and More ", A. de Meijere, S. Bräse, M. Oestreich (Eds.), Wiley-VCH, Weinheim, **2014**, pp 365–422.
- (3) F. Chemla, F. Ferreira, A. Pérez-Luna "Product Class 25 : N-Sulfur-Substituted Imines and Their S-Oxidation Products", dans "Science of Synthesis Knowledge Updates 2012/1", E. Schaumann (Vol. Ed.), Thieme, Stuttgart, **2012**, pp 417-499.
- (4) C. Botuha, F. Chemla, F. Ferreira, A. Pérez-Luna "Aziridines in Natural Product Synthesis", dans "Heterocycles in Natural Product Synthesis", K. C. Majumdar, S. K. Chattopadhyay (Eds.), Wiley-VCH, Weinheim, **2011**, pp 3-40.

#### Brevets (1+extension)

- (1) *Analogues d'aminoglycosides, leur utilisation et leur synthèse*, L. Micouin, F. Dardel, C. Tisne, F. Maurice, M. Bonin, A. Pérez Luna, C. Bournaud.  
Brevet Français FR2874014, **2006**.
- (2) *Analogues d'aminoglycosides, leur utilisation et leur synthèse*, L. Micouin, F. Dardel, C. Tisne, F. Maurice, M. Bonin, A. Pérez Luna, C. Bournaud, G. Begis.

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### Conférences sur invitation (16)

- (1) *Synthesis of functionalized organometallic reagents by carbo- and silylzincation of alkynes*, Université de Strasbourg (Strasbourg), 19 Mai 2017.
- (2) *Synthesis of functionalized organometallic reagents by carbo- and silylzincation of alkynes*, KTH Royal Institute of Technology – School of Chemical Science and Engineering – Division of Organic Chemistry (Stockholm, Suède), 06 Octobre 2016.
- (3) *Synthesis of functionalized organometallic reagents by carbo- and silylzincation of alkynes*, Stockholm University – Department of Organic Chemistry (Stockholm, Suède), 04 Octobre 2016.
- (4) *Synthesis of functionalized organometallic reagents by carbo- and silylzincation of alkynes*, Lund University – CAS (Center for Analysis and Synthesis) (Lund, Suède), 03 Octobre 2016.
- (5) *Synthèse d'organosilanes fonctionnalisés par silylzincation d'alcynes hétérosubstitués*, 57<sup>ème</sup> Groupe d'Etude de Chimie Organique (GECO 57), Ascain (France), 21–26 Août 2016.
- (6) *Reactions tandem radicalaires – polaires à l'aide d'organozinciques*, Institut de Chimie et des Matériaux Paris–Est, Thiais (France), 8 juillet 2016.
- (7) *New synthetic methodologies based on densely functionalized organometallic reagents*, Benemérita Universidad Autónoma de Puebla (BUAP) (Puebla, Mexique), 23 octobre 2014.
- (8) *New synthetic methodologies based on densely functionalized organometallic reagents*, Universidad Nacional Autónoma de México (UNAM) (México D.F., Mexique), 15 octobre 2014.
- (9) *Radical-based approaches for carbo- and silylzincation of alkynes*, Syngenta – Ecole Polytechnique Half-Day Symposium, Ecole Polytechnique (France), 10 juillet 2014.
- (10) *New synthetic methodologies based on densely functionalized organometallic reagents*, UCL Louvain-la-Neuve (Belgique), 01 avril 2014.
- (11) *New synthetic methodologies based on densely functionalized organometallic reagents*, TU Berlin (Germany), 12 décembre 2013.
- (12) *Nouvelles méthodologies de synthèse à l'aide de réactifs organométalliques densément fonctionnalisés*, Université Aix-Marseille AMU (France), 22 novembre 2013.
- (13) *Synthèse multi-composants de carbo- et heterocycles par des processus de transfert radicalaire d'atome de zinc*, ESPCI (France), 30 mars 2012.
- (14) *Carbozincation d'alcènes et d'alcynes par transfert radicalaire de zinc*, ICMMO, Université Paris-Sud Orsay (France), 17 novembre 2010.
- (15) *Carbozincation of Unactivated Alkenes and Alkynes by Radical Zinc Atom Transfer*, IRTG Landhäus Rothenberge Symposium, Münster (Allemagne), 5-6 novembre 2009.

(16) *Enantioselective Synthesis of Polyfunctional Amino Cyclopentanic Cores by Metal-Catalyzed Desymmetrization of meso Bicyclic Hydrazines*, Séminaires du Département de Chimie Organique - Université de Genève, 19 février **2004**