



Prof Corinne FRUIT



Full Professor; Heterocycles team

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PROFESSIONNAL EXPERIENCES

2024- :	Full Professor ; Rouen Normandy University, France
2019-2020	Invited Associate Professor; University of Osaka, Japan
2012-2024	Associate Professor; Rouen Normandy University, France
2005-2012	Assistant Professor; Rouen Normandy University, France
2002-2004	Postdoctoral Associate; Prof. P. Müller, University of Geneva, Switzerland
2001-2002	Postdoctoral Associate; Prof. A. Fallis, University of Ottawa, Canada
2000-2001	Assistant Professor; University of Rouen, France

EDUCATION

2012	<i>Habilitation à diriger des recherches</i> (HDR), Rouen Normandy University, France
2001	Ph.D. Organic Chemistry, Rouen Normandy University, France

ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

2025-	Deputy Director of the Normandy Doctoral School of Chemistry (ED508)
2025-	Appointed Member of the Unity Council of the CARMen Institute (UMR 6064)
2023-2024	Vice-President of the Advisor Commission of faculty specialists (CCSE, section 32) Rouen Normandy University
2023-2024	Member of the National Council of Universities (CNU, section 32)
2022-	International Relations Officer, Chemistry Department (IUT)
2022-	Head of Sustainable Development and Social Responsibility Teaching Modules Chemistry Department (IUT)
2021-2024	Member of the Commission for International Relations and Cooperation (CRIC)
2015-	Member of the Advisor Committee of the Chemistry Department (IUT)
2013-2018	Director of the social and cultural service of Rouen Normandy University.

RESEARCH INTERESTS

- Transition metal catalysis ; microwave
- C-H Diversification
- Fused pyrimidinones and quinazolinones
- Kinase inhibitors, Neurodegenerative diseases and Cancer
- Antibiotic Resistance

SCIENTIFIC ACHIEVEMENTS

Academic record (h-index: 21)

55 publications, 3 books/book chapters, 15 invited lectures (international), 50 posters, 3 proceedings of international conferences, congresses, and symposiums

Selected prizes and awards (or Editorial activities)

2019-2021: Guest Editor, Special Issue of Catalysts: Transition-metal Catalysts for C-H Bond Functionalization of Heteroarenes. IF: 3.520

https://www.mdpi.com/journal/catalysts/special_issues/c-h_functionalization

2019-2020: Invited Associate Professor, Osaka University's International Joint Research Promotion Program. Division of Applied Chemistry, Graduate School of Engineering, Osaka, Japan.

2018: Best poster Award. *32èmes Journées Franco-Belges de Chimie Thérapeutique et 26èmes Conférences Européennes du GP2A (Congrès international, Asnelles-sur-Mer, France)*

2015: Best presentation Award. *In Proceedings of the 1st Int. Electron. Conf. Med. Chem.; Sciforum Electronic Conference Series, Vol. 1, 2015, A004; doi:10.3390/ecmc-1-A004.*

SUPERVISION ACTIVITIES

Since 2005: Supervision of 9 PhD students, 11 M2 students, 11 post-doctoral fellows, 3 temporary associate professors, 40 undergraduate students

GRANTS AND FELLOWSHIPS

Regional: RIN, RIN Emergent, LabEx SynOrg, University of Rouen Normandy

International: Osaka University's International Joint Research Promotion Program (Japon) avec le Pr Sensuke Ogoshi (Professor, Department of Applied Chemistry, Osaka University)

Other: Henri Becquerel Hospital, ManRos Therapeutics

TEACHING ACTIVITIES

- Institute of Technology at Rouen Normandy University, department of Chemistry. Level: Licence:
- Organic Chemistry, Asymmetric Synthesis, Heterocycles, ¹H NMR
- Sustainable Development: Biodiversity, Planetary Boundaries.
- Chemistry and Sustainable Development: Biomimicry, eco-design of materials, bioplastics.
- Chemical Science Course, Graduate School of Engineering, University of Osaka, Japan (special intensive courses, July 2019, 12h): Heterocyclic Chemistry: Synthesis and Functionalization of Heteroaromatic compounds. Level: Ph-D students

CONFERENCES

1. "Synthesis and Metalation of diazines". (2001, University of Ottawa, Canada)

2. **"Intramolecular asymmetric transfer of nitrenes catalyzed by chiral dirhodium (II) carboxylates: synthesis of sulfamidates"**. *Oppolzer Lectures 2003 (Short Communication, Geneva, Switzerland)* *international congress*
3. **"Intramolecular asymmetric transfer of nitrenes catalyzed by chiral dirhodium (II): synthesis of sulfamidates"**. *COST D-24 2003, Stereoselective Transition Metal-Catalysed Reactions (Short Communication, Geneva, Switzerland)* *international congress*
4. **"Part I: Synthèse et métallation de diazines - Part II: Transferts intramoléculaires asymétriques de nitrènes catalysés par le dirhodium"**. *Institut de Chimie des Substances Naturelles (Invited Lecture, 2004, Gif-Sur-Yvette, France)*
5. **"Sulfonimidamides as new nitrene precursors for diastereoselective transition-metal catalyzed aziridinations"**. *Stereocat 2004, COST Chemistry D24, Stereoselective Transition Metal-Catalysed Reactions (Short Communication, Venice, Italy)* *international congress*
6. **"Fonctionnalisation d'hétérocycles en série diazinique et pyridinique"**. *Journée Janssen (Invited Lecture, 2010, Mont-Saint-Aignan, France)*
7. **"lithiated π -deficient heterocycles and their applications in synthetic organic chemistry"**. *Trinity College (Invited Lecture, 2012, Dublin, Ireland)*
8. **"Synthèse de molécules naturelles ou d'analogues à partir de lithio-pyridines"**. *(Oral Communication, 2013, Le Croisic, France)*
9. **"Late-stage C-H Arylation of Thiazolo[5,4-f]quinazolin-9(8H)-one Backbone: Synthesis of an Array of Potential Kinase Inhibitors"**. *32èmes Journées Franco-Belges de Chimie Thérapeutique et GP2A (Invited Plenary Lecture, 2018, Asnelles-sur-Mer, France)* *international congress*, <http://gp2a.org/index.php/2018/08/21/back-on-gp2a-jfb2018/>
10. **"Promising DYRK1A inhibitor synthesized by late-stage C-H Arylation"**. *The 4th International Symposium on C-H Activation (ISCHA-4) (Short Invited Lecture, 2018, Yokohama, Japan)* *international congress*, <http://www.orgmet.chem.keio.ac.jp/ISCHA4/program.html>
11. **"Copper-mediated C-H Activation of quinazolinones and thiazoloquinazolinones for the Synthesis of kinase Inhibitors"**. *University of Osaka (group meeting of Prof S. Ogoshi, 2019, Japan)*

12. **"Late-Stage C-H Arylation: a Powerful Tool for the Synthesis of Promising DYRK1A Inhibitor"**. *University of Osaka (Invited Lecture, 2019, Osaka, Japan)*
13. **"Promising DYRK1A inhibitor synthesized by late-stage C-H Arylation"**, Fruit, C.; *The 27th International Society of Heterocyclic Chemistry Congress (27 ISHC) (Oral presentation, 2019, Kyoto, Japan)* [international congress](#)
14. **"Late-Stage C-H Arylation of Bioactive Heterocycles for the Synthesis of Promising Kinases Inhibitors"**. *University of Keio (Invited Lecture, 2020, Tokyo, Japan)*
15. **"Late-Stage C-H Arylation of Bioactive Heterocycles for the Synthesis of Promising Kinases Inhibitors"**. *Okayama University of Sciences (Invited Lecture, 2020, Okayama, Japan)*

PUBLICATIONS

1. *"Metalation of pyrazinethiocarboxamides"*. **C. Fruit**, A. Turck, N. Plé, G. Quéguiner*; *Heterocycles* **1999**, 51, 2349-2365. **IF: 0.805**
2. *"A new route to Septorin via controlled metalations of pyrazines"*. **C. Fruit**, A. Turck, N. Plé, L. Mojovic, G. Quéguiner*; *Tetrahedron* **2001**, 57, 9429-9435. **IF: 2.651**
3. *"Synthesis and Metalation of pyridazinecarboxamides and thiocarboxamides"*. **C. Fruit**, A. Turck*, N. Plé, L. Mojovic, G. Quéguiner; *Tetrahedron* **2002**, 58, 2743-2753. **IF: 2.651**
4. *"Syntheses of N-Diazinyl Thiocarboxamides and of Thiazolodiazines"*. **C. Fruit**, A. Turck*, N. Plé, G. Quéguiner; *J. Het. Chem.* **2002**, 39, 1077-1082. **IF: 0.893**
5. *"Enantioselective catalytic aziridinations and asymmetric nitrene insertions into CH bonds"*. P. Müller*, **C. Fruit**; *Chemical Reviews* **2003**, 103, 2905-2920. **IF: 47.928**
6. *"Asymmetric transfer of nitrenes catalyzed by chiral dirhodium using aromatic sulfamate esters"*. **C. Fruit***, P. Müller; *Tetrahedron: Asym.* **2004**, 15, 1019-1026. **IF: 2.126**
7. *"Intramolecular asymmetric amidations of sulfonamides and sulfamates catalyzed by chiral dirhodium(II) complexes"*. **C. Fruit***, P. Müller; *Helv. Chim. Acta* **2004**, 87, 1607-1615. **IF: 1.071**
8. *"Diastereoselective rhodium-catalyzed transfer of nitrene starting from chiral sulfonimidamide- derived iminoiodinane"*. **C. Fruit***, F. Robert-Peillard, G. Bernardinelli, P. Müller, R. H. Dodd*, P. Dauban*; *Tetrahedron: Asym.* **2005**, 16, 3484-3487. **IF: 2.126**

9. "Efficient Diastereoselective Intermolecular Rhodium catalyzed C-H amination". C. Liang, F. Robert-Peillard, **C. Fruit**, P. Müller*, R. H. Dodd*, P. Dauban*; *Angew. Chem. Int. Ed.* **2006**, 45, 4641-4644. **IF: 11.994**
10. "O-Tetrahydropyran-2-yl (O-THP) as an Ortho-Directing Group in the lithiation of pyridines". R. Azzouz, L. Bischoff*, **C. Fruit**, F. Marsais; *Synlett* **2006**, 1908-1912. **IF: 2.151**
11. "Regioselective opening of N-Cbz glutamic and aspartic anhydrides with carbon nucleophiles". G. Deguest, L. Bischoff*, **C. Fruit**, F. Marsais; *Tetrahedron: Asym.* **2006**, 17, 2120-2125. **IF: 2.126**
12. "One-pot synthesis of 2,3-dihydro-pyrrolopyridinones using in situ generated formimines". G. Deguest, A. Devineau, L. Bischoff*, **C. Fruit**, F. Marsais; *Org. Lett.* **2006**, 8, 5889-5892. **IF: 6.492**
13. "Anionic, in Situ Generation of Formaldehyde: A Very Useful and Versatile Tool in Synthesis". G. Deguest, L. Bischoff*, **C. Fruit**, F. Marsais; *Org. Lett.* **2007**, 9, 1165-1167. **IF: 6.492**
14. "On the racemisation of aspartic anhydride during its preparation". F. Buron, G. Deguest, L. Bischoff*, **C. Fruit**, F. Marsais; *Tetrahedron: Asym.* **2007**, 18, 1625-1627. **IF: 2.126**
15. "A Concise Synthesis of Lentiginosine Derivatives using a Pyridinium Formation via the Mitsunobu Reaction". R. Azzouz, **C. Fruit***, L. Bischoff*, F. Marsais; *J. Org. Chem.* **2008**, 73, 1154-1157. **IF: 4.849**
16. "Aminomethylation of lithiated nicotinamide: access to new pyridolactams". E. Prieur, R. Azzouz, G. Deguest, **C. Fruit***, L. Bischoff*, F. Marsais; *Tetrahedron Lett.* **2008**, 49, 437-440. **IF: 2.193**
17. "A Convenient One-Pot Preparation of Stable Equivalents of Cyclobutane-1,2-dione and Cyclobutanetrione". G. Deguest, L. Bischoff*, **C. Fruit**, F. Marsais; *Synth. Commun.* **2008**, 38, 841-847. **IF: 1.134**
18. "An efficient protocol for the preparation of pyridinium and imidazolium salts based on the Mitsunobu reaction". S. Petit, R. Azzouz, **C. Fruit**, L. Bischoff*, F. Marsais; *Tetrahedron Lett.* **2008**, 49, 3663-3665. **IF: 2.193**
19. "Aminoacid-derived mercaptoimidazoles". A. Crepin, N. Wattier, S. Petit, L. Bischoff*, **C. Fruit**, F. Marsais; *Org. Biomol. Chem.* **2009**, 7, 128-134. **IF: 3.564**

20. "Design of silicon-based misonidazole analogues and ^{18}F -radiolabelling". P. Bohn, A. Deyine, R. Azzouz, L. Bailly, C. Fiol-Petit, L. Bischoff*, **C. Fruit***, F. Marsais, P. Vera*; *Nuclear Med. Biol.* **2009**, 36, 895-905. **IF: 2,426**
21. "An efficient approach to new dihydroxyquinolizidines". T. Tite, F. Jacquelin, L. Bischoff*, **C. Fruit**, F. Marsais; *Tetrahedron: Asymm.* **2010**, 21, 2032–2036. **IF: 2.484**
22. "New Family of Peptidomimetics Based on the Imidazole Motif". S. Petit, L. Bischoff*, **C. Fruit**, *Org. Lett.* **2010**, 12, 4928-4931. **IF: 5,250**
23. "Pd-Catalyzed Decarboxylative Cross-Coupling of 2-Carboxyazine N-oxides with Various (Hetero)aryl Halides ". J.-B. Rouchet, C. Scheider, C. Spitz, J. Lefèvre, **C. Fruit**, G. Dupas, C. Hoarau*; *Chem. Eur. J.* **2014**, 20, 3610–3615. **IF: 5.731**
24. "Rational multistep synthesis of a novel polyfunctionalized benzo[d]thiazole and its thiazolo[5,4-b]pyridine analogue". D. Hédou, E. Deau, M. Harari, M. Sanselme, **C. Fruit**, T. Besson*; *Tetrahedron* **2014**, 70, 5541-5549. **IF: 2.641**
25. "Ligand-Free Pd-Catalyzed and Copper-Assisted C–H Arylation of Quinazolin-4-ones with Aryl Iodides under Microwave Heating". Laclef, S.; Harari, M.; Godeau, J.; Schmitz-Afonso, I.; Bischoff, L.; Hoarau, C.; Levacher, V.; **Fruit***, C.; Besson*, T. *Org. Lett.* **2015**, 17, 1700-1703. **IF: 6.732**
26. "Regioselective Decarboxylative Cross-coupling of Carboxy isoquinoline N-oxides". Rouchet, J.B.; Schneider, C.; **Fruit, C.**; Hoarau*, C. *J. Org. Chem.* **2015**, 80, 5919-5927. **IF: 4.785**
27. "Synthesis of polyfunctionalized benzo[d]thiazoles as novel anthranilic acid derivatives". D. Hédou, M. Harari, J. Godeau, C. Dubouilh-Benard, **C. Fruit**, T. Besson*; *Tetrahedron Lett.* **2015**, 56, 4088-4092. **IF: 2.347**
28. "Cu/Pd-Catalyzed C2-H Arylation of Quinazolin-4(3H)-ones with (Hetero)Aryl Halides." Godeau, J.; Harari, M.; Laclef, S.; Deau, E.; **Fruit***, C.; Besson*, T. *Eur. J. Org. Chem.* **2015**, 7705-7717. **IF: 2,882**
29. "Synthesis of thiazolo[5,4-f]quinazolin-9(8H)-ones as multi-target directed ligands of Ser/Thr Kinases". Hédou, D.; Godeau, J. ; Loaëc, N.; Meijer, L.; **Fruit, C.**; Besson*, T. *Molecules* **2016**, 21, 578-596. **IF: 2,861**
30. "Three catalysts for activating carbon-hydrogen bonds." **Fruit***, C. *Science* **2016**, 352, 1277-1278. **IF: 37.205**

31. "Orthogonal Palladium-Catalyzed Direct C-H bond Arylation of Heteroaromatics with Aryl Halides." Théveau L.; Schneider, C.; **Fruit***, C.; Hoarau*, C. *ChemCatChem*. **2016**, 8, 8183-3194. **IF: 4,803**
32. "Synthesis of bioactive 2-(arylamino)thiazolo[5,4-f]quinazolin-9-ones via Hügershoff reaction or Cu catalyzed intramolecular C-S bond formation." Hédou, D.; Dubouilh-Benard, C.; Loaëc, N.; Meijer, L.; **Fruit**, C.; Besson*, T. *Molecules* **2016**, 21, 794-821. **IF: 2,861**
33. "Pd-Catalyzed and Copper Assisted Regioselective Sequential C2 and C7 Arylation of Thiazolo[5,4-f]quinazolinone with Aryl Halides." Harari, M.; Couly, F.; **Fruit***, C.; Besson*, T. *Org. Lett.* **2016**, 18, 3282-3285. **IF: 6,579**
34. "Efficient Microwave-Assisted Synthesis of Methyl 4- or 5-Nitroanthranilate" Godeau, J.; Martinet, A.; Levacher, V.; **Fruit**, C.; Besson*, T. *Synthesis* **2016**, 48, 3504-3508. **IF: 2,650**
35. "Recent Developments in Microwave-Assisted Metal-Catalyzed C-H Arylation of Heteroarenes for Medicinal Chemistry and Material Applications." Besson, T.; **Fruit***, C. *Synthesis* **2016**, 48, 3879-3889. **IF: 2,650**
36. "Late-Stage C-H Arylation of Thiazolo[5,4-f]quinazolin-9(8H)-one Backbone: Synthesis of an Array of Potential Kinase Inhibitors." Couly, F.; Dubouilh-Benard, C.; Besson*, T.; **Fruit***, C. *Synthesis* **2017**, 49, 4615-4622. **IF: 2,867**
37. "Dual-specificity tyrosine phosphorylation-regulated kinase 1A (DYRK1A) inhibitors: a survey of recent patent literature". Nguyen, T. L.; **Fruit**, C.; Hérault, Y.; Meijer*, L.; Besson*, T. *Expert Opin. Ther. Pat.* **2017**, 11, 1183-1199. **IF: 3,041**
38. "Development of kinase inhibitors via metal-catalyzed C-H arylation of 8-alkyl-thiazolo[5,4-f]quinazolin-9-ones designed by fragment-growing studies." Couly, F.; Harari, M.; Dubouilh-Benard, C.; Bailly, L.; Petit, E.; Diharce, J.; Bonnet, P.; Meijer, L.; **Fruit***, C.; Besson*, T. *Molecules* **2018**, 23, 2181-2196. **IF: 3,060**
39. "Biological Characterization of 8-Cyclopropyl-2-(pyridin-3-yl)thiazolo[5,4-f]quinazolin-9(8H)-one, a potent Ser/Thr Kinase Inhibitor". **Fruit**, C.; Couly, F.; Bhansali, R.; Rammohan, M.; Lindberg, M.; Crispino, J. D.; Meijer, L.; Besson*, T. *Pharmaceuticals* **2019**, 12, 185-193. **IF: 4,286**
40. "Diaryliodoniums Salts as Coupling Partners for Transition-Metal Catalyzed C- and N-Arylation of Heteroarenes". Pacheco-Benichou, A.; Besson, T.; **Fruit***, C. *Catalysts* **2020**, 10, 483-516. Doi:10.3390/catal10050483 **IF: 3,520**

41. "Synthesis of benzo-fused 11H-pyrido[2,1-b]quinazolin-11-ones by a Buchwald-Hartwig coupling/pyridine dearomatization sequence in eucalyptol". Campos, J. F.; Pacheco-Benichou, A.; **Fruit, C.**; Besson, T.; Berteina-Raboin,* S. *Synthesis* **2020**, 52, 3071-3076. Doi:10.1055/s-0040-1707158 **IF: 2,867**
42. "Microwave-Assisted Synthesis of Potential Bioactive Benzo-, Pyrido- or Pyrazino-thieno[3,2-d]pyrimidin-4-amine Analogs of MPC-6827". Loidreau, Y.; Nourrisson, M.-R.; **Fruit, C.**; Corbière, C.; Marchand,* P.; Besson,* T. *Pharmaceuticals* **2020**, 13, 202. Doi:10.3390/ph13090202 **IF: 4,286 (Q2)**
43. "DYRK1A regulates B-ALL through phosphorylation of FOXO1 and STAT3". Bhansali, R.; Rammohan, M.; Lee, J. H.; Laurent, A.; Wen, Q.; Suraneni, P.; Yip, B. H.; Tsai, Y.-C.; Jenni, S.; Bornhauser, B.; Siret, A.; **Fruit, C.**; Pacheco-Benichou, A.; Harris, E.; Besson, T.; Thompson, B. J.; Ah-Goo, Y.; Hijjiya, N.; Vilenchek, M.; Izraeli, S.; Bourquin, J.-P.; Malinge, S.; Crispino,* J. D. *J. Clin. Invest.* **2021**, 131, e135937. Doi:10.1172/JCI135937. **IF: 14,808 (Q1)**
44. "Copper-Catalyzed C-H Arylation of fused-pyrimidinone derivatives using Diaryliodonium Salts". Pacheco-Benichou, A.; Ivendengani, E.; Kostakis, I. K.; Besson, T.; **Fruit*, C.** *Catalysts* **2021**, 11, 28-40. Doi:10.3390/catal11010028 **IF: 4,146 (Q2)**
45. "Synthesis of Fluoroalkyl Sulfides via Additive-free Hydrothiolation and Sequential Functionalization Reactions". Sunagawa, D. E.; Ishida, N.; Iwamoto, H.; Ohashi, M.; **Fruit, C.**; Ogoshi,* S. *J. Org. Chem.* **2021**, 86, 6015-6024. Doi:10.1021/acs.joc.1c00361 **IF: 4,354**
46. "Microwave-assisted sequential one-pot synthesis of 8-substituted pyrazolo[1,5-a][1,3,5]triazines". Elie, J.; **Fruit, C.**; Besson,* T. *Molecules* **2021**, 26, 3540-3550. Doi:10.3390/molecules26123540 **IF: 4,411 (Q2)**
47. "Recent advances in Transition-Metal-Free Late-stage C-H and N-H Arylation of Heteroarenes using Diaryliodonium Salts". Besson, T.; **Fruit*, C.** *Pharmaceuticals* **2021**, 14, 661-675. <https://doi.org/10.3390/ph14070661> **IF: 5,863 (Q2)**
48. "Monitoring of catalyst-free microwave-assisted MCR-type synthesis of 2-amino-3-cyano-4H-chromene derivatives using Raman spectrometry". Hébert, O.; Dubouilh, C.; Campos, J. F.; Berteina-Raboin, S.; **Fruit, C.**; Besson,* T. *Synthesis* **2022**, 54, 5215-5225. Doi: 10.1055/a-1891-0976 **IF: 2,969**
49. "Relieving Dyrk1a repression of MKL1 corrects developmental defects in infantile megakaryocytes". Elagib*, K. E.; Brock, A.; Mosoyan, G.; Clementelli, C.; Delehanty, L.

L.; Pacheco-Benichou, A.; **Fruit, C.**; Besson, T.; Morris, S. W.; Eto, K.; Jobaliya, C.; French, D. L.; Gadue, P.; Singh, S.; Shi, X.; Li, H.; Iancu-Rubin, C.; Goldfarb*, A. N. *J. Clin. Invest.* **2022**, 132, e154839. doi:10.1172/JCI154839 IF: 19,486 (Q1)

50. "Synthesis of 2-cyanobenzothiazoles via Pd-catalyzed/Cu-assisted C-H functionalization /intramolecular C-S bond formation from cyanothioformamides." Broudic, N.; Pacheco-Benichou, A.; **Fruit*, C.**; Besson,* T. *Molecules* **2022**, 27, 8426. IF: 4.927 (Q2)

51. "Photocatalyst-Free Visible Light-Mediated C-H Perfluoroalkylation of Quinazolin-4(3H)-ones with perfluoroalkyl iodides". Delouche, T.; Gadiry-Diallo, A.; Besson, T.; Ogoshi, S.; **Fruit*, C.** *Synthesis* **2023**, 55, 3670-3684. Doi:10.1055/a-2054-0482 IF: 2,969

52. "Synthesis of trifunctional thiazole-fused anthranilonitrile and anthranilic acid derivatives." Broudic, N.; Pacheco-Benichou, A.; **Fruit, C.**; Besson,* T. *Synthesis* **2023**, 55, 3263-3271. doi: 10.1055/a-2086-3015 IF: 2,969

53. "Synthesis of thiazole-fused tricyclic quinazolinone alkaloids and their derivatives." Broudic, N.; Layec, C.; **Fruit, C.**; Besson,* T. *Synthesis* **2024**, 56, 1485-1497. doi:10.1055/a-2243-4727 IF: 2,969

54. "Novel Thiazole-Fused [4,5-g] or [5,4-g]Quinazolin-8-ones and Their Quinazoline Analogues: Synthesis and Biological Evaluation." Broudic, N.; Pacheco-Benichou, A.; Corbière, C.; Baratte, B.; Robert, T.; Bach, S.; Solhi, H.; Le Guével, R.; **Fruit, C.**; Besson,* T. *Pharmaceuticals* **2024**, 17, 1452. doi:10.3390/ph17111452 IF: 4,6 (Q2)

55. "Quinazoline-derivatives of imino-1,2,3-dithiazoles promote biofilm dispersion of *Pseudomonas aeruginosa*" Gonzalez, M.; Tareau, A.-S.; de Crozals, D.; Layec, C.; Broudic, N.; Barreau, M.; Forge, A.; Lesouhaitier, O.; **Fruit, C.**; Chevalier, S.; Besson,* T.; Tahrioui,* A. *Pharmaceuticals* **2025**, 18, 1733. <https://doi.org/10.3390/ph18111733>

Books chapters :

56. "Metalation of Pyrazine and Quinoxaline" N. Plé, **C. Fruit.*** 'Metalation of Azines and Diazines' in *Topics in Heterocyclic Chemistry* **2013**, 31, 131-170, Springer Ed.

57. "Recent advances in metal-catalyzed C-H functionalization of pyrimidinones, quinazolinones and fused quinazolinones." **Fruit, C.***; Besson, T. in *Target in Heterocyclic*

Systems, – Chemistry and Properties; Attanasi O. A., Spinelli D., Eds.; Italian Society of Chemistry: Roma, 2018 Vol.22, 56-81.

58. "Direct C-H difluoromethylation and perfluoroalkylation of heteroarenes." **Fruit*, C.** in *Topics in "Handbook of CH Functionalization" 2022, Wiley-VCH*
<https://doi.org/10.1002/9783527834242.chf0232>

Proceedings:

59. "The Chromosome 21 Kinase DYRK1A and Its Substrate FOXO1 Constitute a Novel Therapeutic Pathway in B-ALL". Bhansali, R. S.; Rammohan, M.; Paul Lee, J. H.; Malinge, S.; Tsai, Y.-C.; Hijiya, N.; Bornhauser, B.; Bourquin, J.-P.; **Fruit, C.**; Besson T.; Crispino J. D. *Blood* **2018**, 132, 548. <https://doi.org/10.1182/blood-2018-99-119854> IF= 16.601
60. "Harnessing a Novel Dyrk1a-Ablim2-MKL1 Regulatory Module in Megakaryocyte Morphogenesis to Enable Scalable Platelet "Pharming". Elagib, A. E.; Brock, A.; Mosoyan, G.; Clementelli, C.; Delehanty, L. L., Pacheco-Benichou, A.; **Fruit, C.**; Besson, T.; Morris, S.; Eto, K.; Lancu-Rubin, C.; Goldfarb, A. N. *Blood* **2019**, 134, 3250.
<https://doi.org/10.1182/blood-2019-129049> IF= 17.543 (Q1)
61. "Radiosynthesis of [11C]EHT1610, a potential radioligand for quantification of cerebral DYRK1A by PET imaging." Poutrel, P.; Fillesoye, F.; Ibazizène, M.; **Fruit, C.**; Besson, T.; Perrio, C.; Gourand, F. *Nucl. Med. Biol.* **2022**, 108-109:S95. DOI: [10.1016/S0969-8051\(22\)00220-7](https://doi.org/10.1016/S0969-8051(22)00220-7) IF= 2.947 (Q2)