Stéphane Quideau, Ph.D.

Born on May 28, 1966 in Lannilis, Finistère, France

Full Professor of Chemistry at The University of Bordeaux
Honorary Member of the Institut Universitaire de France
President of Groupe Polyphénols (2008-2012)

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I. PROFESSIONAL EXPERIENCE

2017-	Exceptional Class 2 Prof. of Chemistry, Université de Bordeaux, Talence, France.
2011-2017	Exceptional Class 1 Prof. of Chemistry, Université de Bordeaux, Talence, France.
2011-2015	Director of the Division "Synthesis and Bioactive Molecules" at the Institut des Sciences Moléculaires (UMR-CNRS 5255), Université de Bordeaux, Talence, France
2005-2011	First Class Prof. of Chemistry, Université de Bordeaux, Talence, France.
2003-2013	Group Leader at the Institut Européen de Chimie et Biologie, Organic and Bioorganic Chemistry Division, Pessac, France.
1999-2006	Assistant Head of the Laboratoire de Chimie des Substances Végétales, Centre de Recherche en Chimie Moléculaire, Université de Bordeaux, Talence, France.
1999-2005	Associate Prof. of Chemistry, Université de Bordeaux, Talence, France.
1997-1998	Assistant Prof. of Chemistry, Texas Tech University, TX, USA.
1994-1997	Postdoctoral Associate, Penn State University, PA, USA (Advisor: Prof. Ken Feldman – *Synthesis and Biomechanistic Studies on Gallo- and Ellagitannins*).
1990-1994	Ph.D., University of Wisconsin-Madison, WI, USA (Advisor: Prof. John Ralph – *Structural and Synthesis Studies on Lignan and Lignin-Type Natural Products*).

II. CURRENT RESEARCH INTERESTS

Synthetic, structural and biomechanistic studies of bioactive natural products, with emphasis on plant polyphenols – Polyphenol-protein interactions – Phenol dearomatization in organic synthesis – Hypervalent iodine chemistry.

III. HONORS AND AWARDS

2018 Tannin Award of the Tannin Conference Series Organizing Committee
2017 Organic Chemistry Division Prize of the French Chemical Society
2015 Angewandte Chemie Author Profile (*Angew. Chem. Int. Ed.* **2015**, *54*, 15610)
2014 Distinguished Senior Member of the French Chemical Society
2004-2009 Junior Member of the "Institut Universitaire de France"
2008 Groupe Polyphénols Scientific Prize
2006 Dr. and Mrs Henri Labbé Prize of the French Academy of Sciences
2006 Acros Prize of the French Chemical Society
2005 CNRS Young Researcher ATIP Award

IV. PUBLICATIONS

131 publications, including 19 reviews and book chapters
42 plenary or invited lectures, 58 short talks and 112 poster presentations at conferences
103 invited seminars, 5 books, 5 patents
h-index = 41 (Web of Knowledge) – 46 (Google Scholar) (01/2018)

Selection of Publications

(128) El Assal, M.; Peixoto, P. A.; Coffinier, R.; Garnier, T.; Deffieux, D.; Miqueu, K.; Sotiropoulos, J.-M.; Pouységu, L.; Quideau, S. Synthesis of Scyphostatin Analogues through Hypervalent Iodine-mediated Phenol Dearomatization. *J. Org. Chem.* **2017**, *82*, 11816-11828.

(127) Richieu, A.; Peixoto, P. A.; Pouységu, L.; Deffieux, D.; Quideau, S. Bio-inspired Total Synthesis of (–)-Vescalin, A Nonahydroxy-triphenoylated *C*-Glucosidic Ellagitannin. *Angew. Chem. Int. Ed.* **2017**, *56*, 13833-13837 (*2018 Ragaï Ibrahim Prize of the Groupe Polyphénols awarded to Antoine Richieu*)

(126) Companys, S.; Peixoto, P. A.; Bosset, C.; Chassaing, S.; Miqueu, K.; Sotiropoulos, J.-M.; Pouységu, L.; Quideau, S. Asymmetric Alkynylation of b-Ketoesters and Naphthols Promoted by New Chiral Biphenylic Iodanes. *Chem. Eur. J.* **2017**, *23*, 13309-13313.

(119) Coffinier, R.; El Assal, M.; Peixoto, P. A.; Bosset, C.; Miqueu, K.; Sotiropoulos, J.-M.; Pouységu, L.; Quideau, S. Total Synthesis of (–)-Bacchopetiolone via an Asymmetric Hydroxylative Phenol Dearomatization/[4+2] Dimerization Cascade Promoted by a Novel *Salen*-type Chiral Iodane. *Org. Lett.* **2016**, *18*, 1120-1123.

(115) Sylla, T.; Pouységu, L.; Da Costa, G.; Deffieux, D.; Monti, J.-P.; Quideau, S. Gallotannins and Tannic Acid: First Chemical Syntheses and *In Vitro* Inhibitory Activity on Alzheimer's Amyloid b-Peptide Aggregation. *Angew. Chem. Int. Ed.* **2015**, *54*, 8217-8221.

(109) Bosset, C.; Coffinier, R.; Peixoto, P. A.; El Assal, M.; Miqueu, K.; Sotiropoulos, J.-M.; Pouységu, L.; Quideau, S. Asymmetric Hydroxylative Phenol Dearomatization Promoted by Chiral Binaphthylic and Biphenylic Iodanes. *Angew. Chem. Int. Ed.* **2014**, *53*, 9860-9864.

(107) Douat, C.; Berni, E.; Jacquet, R.; Pouységu, L.; Deffieux, D.; Quideau, S. Protecting Group-Free Solid-Phase Anchoring of Polyphenolic *C*-Glucosidic Ellagitannins and Synthesis of 1-Alkylamino-Vescalagin Derivatives. *Eur. J. Org. Chem.* **2014**, 4963-4972 (***Selected for the Cover***).

(106) Carrié, H.; Tran, D. T.; Rousseau, S.; Chaignepain, S.; Schmitter, J.-M.; Deffieux, D.; Quideau, S. New Affinity-Based Probes for Capture of Flavonoid-Binding Proteins. *Chem. Commun.* **2014**, *50*, 9387-9389.

(100) Petit, E.; Lefeuvre, D.; Jacquet, R.; Pouységu, L.; Deffieux, D.; Quideau, S. Remarkable Biomimetic Chemoselective Aerobic Oxidation of Oak Found-in-Wine Flavano-Ellagitannins. *Angew. Chem. Int. Ed.* **2013**, *52*, 11530-11533.

(94) Malik, G.; Natangelo, A.; Charris, J.; Pouységu, L.; Manfredini, S.; Cavagnat, D.; Buffeteau, T.; Deffieux, D.; Quideau, S. Synthetic Studies Toward *C*-Glucosidic Ellagitannins. A Biomimetic Total Synthesis of 5-*O*-Desgalloylepipunicacortein A. *Chem. Eur. J.* **2012**, *18*, 9063-9074.

(83) Quideau, S.; Douat-Casassus, C.; Delannoy López, D. M.; Di Primo, C.; Chassaing, S.; Jacquet, R.; Saltel, F.; Genot, E. The *C*-Glucosidic Ellagitannin Vescalagin Binds Filamentous Actin and Winds it into fibrillar aggregates. *Angew. Chem. Int. Ed.* **2011**, *50*, 5099-5104.

(82) Pouységu, L.; Deffieux, D.; Malik, G.; Natangelo, A.; Quideau, S. Synthesis of Ellagitannin Natural Products. *Nat. Prod. Rep.* **2011**, *28*, 853-874 (***Selected for the Cover – Most Accessed NPR article in April 2011***).

(80) Quideau, S.; Deffieux, D.; Douat-Casassus, C.; Pouységu, L. Plant Polyphenols – Chemical Properties, Biological Activities, and Synthesis. *Angew. Chem. Int. Ed.* **2011**, *50*, 586-621 (***Essential Science Indicators Top 1% Highly Cited Paper***).

(79) Deffieux, D.; Natangelo, A.; Malik, G.; Pouységu, L.; Charris, J.; Quideau, S. First and Biomimetic Total Synthesis of a Member of the *C*-Glucosidic Subclass of Ellagitannins, 5-*O*-Desgalloylepipunicacortein A. *Chem. Commun.* **2011**, *47*, 1628-1630.

(69) Chassaing, S.; Lefeuvre, D.; Jacquet, R.; Jourdes, M.; Ducasse, L.; Galland, S.; Grelard, A.; Saucier, C.; Teissedre, P.-L.; Dangles, O.; Quideau, S. Physicochemical Studies of New Anthocyano-Ellagitannin Hybrid Pigments. About the Origin of the Influence of Oak *C*-Glycosidic Ellagitannins on Wine Color. *Eur. J. Org. Chem.* **2010**, 55-63 (***Selected for the Cover***).

(67) Douat-Casassus, C.; Chassaing, S.; Di Primo, C.; Quideau, S. Specific or Non Specific Protein-Polyphenol Interactions ? Discrimination in Real Time by Surface Plasmon Resonance. *ChemBioChem* **2009**, *10*, 2321-2324.

(66) Quideau, S.; Lyvinec, G.; Marguerit, M.; Bathany, K.; Ozanne-Beaudenon, A.; Buffeteau, T.; Cavagnat, D.; Chénedé, A. Asymmetric Hydroxylative Phenol Dearomatization Via In Situ Generation of Iodanes from Chiral Iodoarenes and *m*-CPBA. *Angew. Chem. Int. Ed.* **2009**, *48*, 4605-4609.

(62) Pouységu, L.; Chassaing, S.; Dejugnac, D.; Lamidey, A.-M.; Miqueu, K.; Sotiropoulos, J.-M.; Quideau, S. Highly Diastereoselective Synthesis of *ortho*-Quinone Monoketals via I^{III}-Mediated Oxidative Dearomatization of Phenols. *Angew. Chem. Int. Ed.* **2008**, *47*, 3552-3555.

(64) Pouységu, L.; Marguerit, M.; Gagnepain, J.; Lyvinec, G.; Eatherton, A. J.; Quideau, S. Total Synthesis of Wasabidienones B_1 and B_0 via SIBX-Mediated Hydroxylative Phenol Dearomatization. *Org. Lett.* **2008**, *10*, 5211-5214 (***Highlighted in*** *Synfacts*, **2009**, *5*, 465; *ibid.*, **2009**, *6*, 588).

(61) Quideau, S.; Pouységu, L.; Deffieux, D. Oxidative Dearomatization of Phenols – Why, How and What For? *Synlett* **2008**, *4*, 467-495.

(56) Gagnepain, J.; Castet, F.; Quideau, S. Total Synthesis of (+)-Aquaticol via Biomimetic Phenol Dearomatization. A Case of Double Diastereofacial Differentiation in Diels-Alder Dimerization of Orthoquinols Involving a C_2-Symmetric Transition State. *Angew. Chem. Int. Ed.* **2007**, *46*, 1533-1535.

(51) Douat-Casassus, C.; Marchand-Geneste, M.; Diez, E.; Aznar, C.; Picard, P.; Geoffre, S.; Huet, A.; Bourguet-Kondracki, M.-L.; Gervois, N.; Jotereau, F.; Quideau, S. Covalent Modification of a Melanoma-Derived Antigenic Peptide with a Natural Quinone Methide. Preliminary Chemical, Molecular Modelling and Immunological Evaluation Studies. *Mol. BioSyst.* **2006**, *2*, 240-249 (***Selected for the Cover***).

(48) Ozanne-Beaudenon, A.; Quideau, S. Regioselective Hypervalent Iodine(III)-Mediated Dearomatizing Phenylation of Arenols via Direct Ligand Coupling. *Angew. Chem. Int. Ed.* **2005**, *44*, 7065-7069.

(47) Quideau, S.; Jourdes, M.; Lefeuvre, D.; Montaudon, D.; Saucier, C.; Glories, Y.; Pardon, P.; Pourquier, P. The Chemistry of Wine Polyphenolic *C*-Glycosidic Ellagitannins Targeting Human Topoisomerase II. *Chemistry – A European Journal* **2005**, *11*, 6503-6513 (***Selected for the Cover***).

(37) Quideau, S.; Jourdes, M.; Saucier, C.; Glories, Y.; Pardon, P.; Baudry, C. DNA Topoisomerase Inhibitor Acutissimin A and Other Flavano-Ellagitannins in Red Wine. *Angew. Chem. Int. Ed.* **2003**, *42*, 6012-6014 (***Selected for the Cover***).