



*Date & Place of Birth* : 03/03/1958 Guérande (France)

*Nationality* : French

*Qualifications* :

BSc, Msc (Nantes, 1981-2), PhD ("Constitution lignoïdique de trois espèces du genre *Hernandia*" ("Lignans from three hernadiaceous species"), Angers, 1984, Supervisor : Pr J. Bruneton)  
Senior Lecturer in Pharmacognosy (1987-1999) then Professor in Organic Chemistry.

*Position* :

Professor in Pharmacognosy (since 2007), UFR des Sciences Pharmaceutiques - 16, Bd Daviers, F-49100, University of Angers (UA), France.

Head of the "Natural Products and Structural Analogs" laboratory

(SONAS)

Former Head of the "Common Service for Spectroscopic Analysis" (UA : X-Ray Diffraction, MS, NMR)

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#### *Research work*

"Pharmacognosy" is derived from two Greek words, "pharmakon" or drug, and "gnosis" or knowledge. Like many contemporary fields of science, Pharmacognosy has undergone significant change in recent years and today represents a highly interdisciplinary science which is one of five major areas of pharmaceutical education. Its scope includes the study of the physical, chemical, biochemical and biological properties of drugs, drug substances, or potential drugs or drug substances of natural origin as well as the search for new drugs from natural sources. Research problems in pharmacognosy include studies in the areas of phytochemistry, microbial chemistry, biosynthesis, biotransformation, chemotaxonomy, and other biological and chemical sciences. In this field, the **SONAS** has been working for a few years now on the polyphenolic content (coumarins, xanthenes, phloroglucinols, benzophenones...) of plants mainly originating in Malaysia and New Caledonia. As far as the biological activity of the pure isolated compounds is concerned, we mainly focus on anti-inflammatory activities as well as alternative crop protection against phytopathogenes. The **SONAS** is also developing fast dereplication methods through (MA)LDI-MS and <sup>13</sup>C-NMR crude extract analysis

#### *Selected Recent Publications (5/ c.a. 150) :*

[1]- P. Simoneau, T. Guillemette, P. Richomme, Jean-Jacques Helesbeux : "Potentiating agents for protecting plants from fungal infections" : US 20150216174 A1 20150806 (2015)

[2]- P. Richomme, J.-J. Helesbeux, D. Guilet, D. Seraphin, H. Stuppner, B. Waltenberger, D. Schuster, V. Temml, A. Koeberle, O. Werz : "Tocotrienol derivatives, pharmaceutical composition and method of use in chronic airway inflammatory disorders". WO/2017/032881/A1 (2017)

[3]- P. Le Pogam, J. Boustie, P. Richomme, A. Denis, A. Schinkovitz.; "The inherent matrix properties of lichen metabolites in matrix-assisted laser desorption ionization time-of-flight mass spectrometry". *Rapid Communications in Mass Spectrometry*, 31(23), 1993-2002 (2017)

[4]- A. Jaber<sup>1</sup>, D. Seraphin, D. Guilet, J. Osuga, E. Cheble, G. Ibrahim, P. Richomme, A. Schinkovitz : "Bithiophenic MALDI matrices as valuable leads for the selective detection of alkaloids", *Analytical and Bioanalytical Chemistry*, 409(29), 6791-6801 (2017)

[5]- K. Alsabil, G. Viault, S. Suor-Cherer, J.-J. Helesbeux, J. Merza, V. Dumontet, L. M. Peña-Rodríguez, P. Richomme, Denis Séraphin : "Efficient *ortho*-formylation in vitamin E series, application to the semi-synthesis of natural 5- and 7-formyl- $\delta$ -tocotrienols revealing an unprecedented 5-bromo-7-formyl exchange", *Tetrahedron*, 73(49) 6863-6870 (2017)