

# Vincent FERRIERES

Full Professor in Organic Chemistry



## Academic degrees and Positions

**2005**

Full Professor in organic chemistry at the ENSC Rennes

**1996**

Assistant Professor at the ENSC Rennes • Post-doctoral training at Roussel Uclaf (currently Sanofi)/France (Prof. J. C. Depezay)

**1995**

Post-doctoral researcher at the University of Konstanz/Germany (Prof. R. R. Schmidt)

**1991-1994**

PhD in organic chemistry/University of Rennes 1 (Prof. D. Plusquellec)

## Teaching

- Organic chemistry (Bachelor to Master)
- Glycochemistry (Master)
- Projects in chemistry (Bachelor to Master)

## Research topics

- Glycochemistry & Biocatalysis (Furanosides, Glucans)
- Bioactive glycoconjugates (Immunomodulation, Re-emergent and Neglected diseases, Biostimulating agents)

## Research state

- 100 Publications • 9 Patents • 5 Book chapters • 7 Proceedings

## Collaborations/Partnerships

- Treasurer of the French Group of Glycosciences (GFG)
- York University, NTU (Norway), Universities of Nantes, Rennes, Sorbonne (France)
- 18 contracts as principal investigator, 3 contracts as partner
- Industry: 12 contracts as principal investigator, 1 as partner

**Relevant publications** ([iscr.univ-rennes.fr/vincent-ferrieres](http://iscr.univ-rennes.fr/vincent-ferrieres))



Univ Rennes, Ecole Nationale Supérieure de Chimie de Rennes, CNRS, UMR 6226-ISCR, Rennes, France



+33 (0)2 23 23 80 58



[vincent.ferrieres@ensc-rennes.fr](mailto:vincent.ferrieres@ensc-rennes.fr)



<https://www.ensc-rennes.fr/recherche/equip-e-cos/>

ORCID : 0000-0002-2780-7774



Groupe Français des Glycosciences





- David, L.-P.; Ferron, S.; Favreau, B.; Yeni, O.; Ollivier, S.; Ropartz, D.; Compagnon, I.; Ferrières, V.; Dévéhat, F. L.; Legentil, L., Lichenic oligosaccharides: synthesis of galactomannans fragments to help NMR assignment for extracted polysaccharides. *Org. Biomol. Chem.* **2024**, *22*, 2395-2403.
- Broquet, A.; Gourain, V.; Goronflot, T.; Mabecque, V. L.; Sinha, D.; Ashayeripanah, M.; Jacqueline, C.; Martin, P.; Davieau, M.; Boutin, L.; Poulain, C.; Martin, F. P.; Fourgeux, C.; Petrier, M.; Cannevet, M.; Leclercq, T.; Guillonneau, M.; Chaumette, T.; Laurent, T.; Harly, C.; Scotet, E.; Legentil, L.; Ferrières, V.; Cognac, S.; Mami-Chouaib, F.; Mosnier, J.-F.; Mauduit, N.; McWilliam, H. E. G.; Villadangos, J. A.; Gourraud, P.-A.; Asehounne, K.; Poschmann, J.; Roquilly, A., Sepsis-trained macrophages promote anti-tumoral tissue-resident T cells *Nat. Immunol.* **2024**, *25*, 802-819.
- Yeni, O.; Ollivier, S.; Moge, B.; Ropartz, D.; Rogniaux, H.; Legentil, L.; Ferrières, V.; Compagnon, I., Ring-size memory of galactose-containing MS/MS fragments: application to the detection of galactofuranose in oligosaccharides and their sequencing. *J. Am. Chem. Soc.* **2023**, *145*, 15180-15187.
- Přerovská, T.; Jindřichová, B.; Henke, S.; Yvin, J.-C.; Ferrières, V.; Burketova, L.; Lipovová, P.; Nguema-Ona, E., AGP-like proteins from *Ulva lactuca* activate immune responses and plant resistance in an oilseed crop. *Front. Plant Sci.* **2022**, *13*, 893858.
- Ho, J. S.; Gharbi, A.; Schindler, B.; Yeni, O.; Brédy, R.; Legentil, L.; Ferrières, V.; Kiessling, L. L.; Compagnon, I., Distinguishing Galactoside Isomers with Mass Spectrometry and Gas-Phase Infrared Spectroscopy. *J. Am. Chem. Soc.* **2021**, *143*, 10509-10513.
- Favreau, B.; Yeni, O.; Ollivier, S.; Boustie, J.; Dévéhat, F. L.; Guégan, J.-P.; Fanuel, M.; Rogniaux, H.; Brédy, R.; Compagnon, I.; Ropartz, D.; Legentil, L.; Ferrières, V., Synthesis of an exhaustive library of naturally occurring Gal $\beta$ -Man $\alpha$  and Gal $\alpha$ -Man $\alpha$  disaccharides. Towards fingerprinting according to the ring size by advanced mass spectrometry-based IM-MS and IRMPD. *J. Org. Chem.* **2021**, *86*, 6390-6405.
- Paris, F.; Trouvelot, S.; Jubien, M.; Lecollinet, G.; Joubert, J.-M.; Chiltz, A.; Héloir, M.-C.; Negrel, J.; Adrian, M.; Legentil, L.; Daire, X.; Ferrières, V., Hydrophobized laminarans as new biocompatible anti-oomycete compounds for grapevine protection. *Carbohydr. Polym.* **2019**, *225*, 115224.
- Chlubnova, I.; Kralova, B.; Dvorakova, H.; Spiwok, V.; Filipp, D.; Nugier-Chauvin, C.; Daniellou, R.; Ferrières, V., Biocatalyzed synthesis of difuranosides and their ability to trigger production of TNF- $\alpha$ . *Bioorg. Med. Chem. Lett.* **2016**, *26*, 1550-1553.