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### **THEMATIQUES DE RECHERCHE**

Physico-chimie de systèmes œnologiques  
Analyses métaboliques des vins

### **CURSUS**

Thèse en Chimie, option Chimie-Physique, Université de Haute Alsace, Mulhouse, France, 1996  
European (TMR) Postdoctoral Fellowship, (Prof. Robin K. Harris), University of Durham, UK, 1996-1998  
Chercheur associé, Laboratoire d'œnologie et Chimie Appliquée, (Prof. Philippe Jeandet), Université de Reims, France, 2000-2002  
Habilitation à Diriger les Recherches (HDR), Université de Reims, France, 2004  
Maître de Conférences, Université de Bourgogne, 2004

### **ENSEIGNEMENT**

Chimie analytique  
Chimie et Physico-chimie du vin  
Pratiques œnologiques  
Pratiques scientifiques

### **BIBLIOGRAPHIE RECENTE**

Barrera Garcia D, Gougeon RD, Voilley A, Chassagne D (2006) Sorption behavior of volatile phenols at the oak wood/wine interface in a model system. *J. Agric. Food Chem* 54, 3982-3989

Gougeon RD, Reinholdt M, Delmotte L, Miché-Brendlé J, Jeandet P (2006) Solid-state NMR investigation on the interactions between a synthetic montmorillonite and two homopolypeptides. *Solid State Nucl. Magn. Reson.* 29, 322-329

Barrera-Garcia V-D, Gougeon RD, Di Majo D, De Aguirre C, Voilley V, Chassagne D (2007) Sorption Behaviour Of Wine Polyphenols Onto Oak Wood. *J. Agric. Food Chem* 55, 7021-7027

Barrera-Garcia V-D, Gougeon RD, Karbowiak T, Voilley A, Chassagne D (2008) Role of wood macromolecules on selective sorption of phenolic compounds by wood. *J. Agric. Food Chem* 56, 8498-8506

Karbowiak T, Gougeon RD, Rigolet S, Delmotte L, Debeaufort F, Voilley A (2008) Diffusion of small molecules in edible films: effect of water and interactions between diffusant and biopolymer. *Food Chem* 106(4), 1340-1349

Gougeon RD, Lucio M, De Boel A, Hertkorn N, Frommberger M, Peyron D, Chassagne D, Feuillat F, Voilley A, Cayot P, Gebefügi I, Schmitt-Kopplin P (2009) Expressing forest origins in the chemical composition of oak wood barrels and corresponding wines by FTICR-MS. *Chem.Eur. J.* 15, 600-611

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- Karbowiak T, Gougeon RD, Alinc JB, Brachais L, Debeaufort F, Voilley A, Chassagne D (2010) Wine oxidation and the role of cork. *Crit. Rev. Food Sci. Nutr.* 50, 20-52
- Pradelles R, Chassagne D, Vichi S, Gougeon R, Alexandre H (2010) (-)-Geosmin sorption by enological yeasts in model wine and FTIR spectroscopy characterization of the sorbent. *Food Chem.* 120, 531-538
- Schmitt-Kopplin P, Gabelica, Z, Gougeon RD, Fekete A, Kanawati B, Harir M, Gebefügi, I., Eckel G, Hertkorn N (2010) High molecular diversity of extraterrestrial organic matter in Murchison meteorite revealed 40 years after its fall. *Proc. Natl. Acad. Sci. USA* 107(7), 2763-2768
- Lequin S, Chassagne D, Karbowiak T, Gougeon RD, Brachais L, Bellat JP (2011), Adsorption equilibria of water vapour on cork. *J. Agric. Food Chem* 58 (6), 3438–3445
- Barrera-Garcia V-D, Chassagne D, Paulin C, Raya J, Hirschinger J, Bellat JP, Gougeon RD (2011) Interaction mechanisms between guaiacols and oak lignin. *Langmuir* 27 (3), 1038–1043
- Boutegrabet L, Fekete A, Hertkorn N, Waffo-Teguo P, Merillon JM, Jeandet P, Gougeon RD, Schmitt-Kopplin P (2011) Ultra high pressure liquid chromatography for stilbenes separation and their determination in Burgundy wines. *Anal. Bioanal. Chem.* 401 (5), 1517-1525
- Boutegrabet L, Kanawati B, Gebefügi I, Peyron D, Cayot P, Gougeon RD, Schmitt-Kopplin P (2012) Chloride anion attachment to Sugars. Mechanistic investigation and discovery of a new dopant for efficient sugar ionization/detection in mass spectrometers *Chem.Eur. J.* DOI: 10.1002/chem.201103788