

BIOGRAPHY

25/06/2012



Title and name

Guido RYCHEN, Professor in Animal Science at the University of Lorraine

Nationality

France

Panel

Additives and products or substances used in animal feed (FEEDAP)

Education

1986 : Diplôme d'Ingénieur Agronome, Institut National Agronomique Paris-Grignon

1991 : Diplôme d'Etudes Approfondies "Ecologie Microbienne", Univ Claude Bernard Lyon

1994 : Doctorat en Sciences Animales, Institut National Agronomique Paris-Grignon

1997 : Habilitation à Diriger des Recherches, Institut National Polytechnique de Lorraine

Scientific and risk assessment experience

Head of the Research Unit « Animal et Fonctionnalités des Produits Animaux » EA 3998 USC INRA 340 (30 Professors and associate professors, 20 technical and administrative Staff, 20 PhD students)

Research topic « Bioavailability of environmental pollutants and transfer to animal products »

EFSA expert (FEEDAP panel 2003-2009 and 2012-2015) and member of working groups related to feed safety, safety and efficacy of zootechnical additives in food producing animals

Member of the scientific committee from INRA Champenoux

Member of the Conseil National des Universités « Biologie des Organismes »

Expertise missions for the French Ministry of Agriculture DGAL

Member of the evaluation committee of INRS (Department pollutants and health)

Vice Chair of the INRA Scientific Committee « Nutrition-Toxicology » from 2003-2011

Main scientific publications

Main areas of my publications : exposure of livestock to persistent organic pollutants, bioavailability and transfer to animal products, potential of decontamination.

G Rychen, S Jurjanz, H Toussaint, C Feidt, 2008. Dairy ruminant exposure to persistent organic pollutants and excretion to milk. *Animal*, 312-323

Caboche J, Jondreville C, Tack K, Denys S, Rychen G, Feidt C, 2009. Tissue distribution of Antimony (Sb) in piglets given orally graded levels of Sb. *Journal of Toxicological and Environmental Chemistry*, 91, 267-278.

Jaouad Bouayed, Frédéric Desor, Hassan Rammal, Alexandra K. Kiemer, Elisabeth Tybl, Henri Schroeder, Guido Rychen, Rachid Soulimani, 2009. Effects of lactational exposure to benzo[α]pyrene (B[α]P) on postnatal neurodevelopment, neuronal receptor gene expression and behaviour in mice. *Toxicology*, 259, 97-106

Adrian Costera, Cyril Feidt, Marie Antoinette Dziurla, Fabrice Monteau, Bruno Le Bizec, Guido Rychen, 2009. Bioavailability of PAHs from soil and hay matrices in lactating ruminants. *Journal of Agriculture and Food Chemistry*, 57(12), 5352-5357

Fayçal Ounnas, Stefan Jurjanz, Marie Antoinette Dziurla, Yann Guiavarc'h, Cyril Feidt, Guido Rychen, 2009. Relative bioavailability of soil-bound Polycyclic Aromatic Hydrocarbons in goats, *Chemosphere*, 77, 115-122

Adrián Costera, Guido Rychen, Cyril Feidt, Claire Soligot and Stefan Jurjanz, 2010.. Ruminal disappearance of PAHs in contaminated grass using the nylon bag technique *Agronomy for sustainable Development*, 30 (4), 769-775

Ounnas F, Feidt C, Rychen G, Marchand P, Le Bizec P, Jurjanz S, 2010. Polychlorinated Biphenyls and low Polybrominated Diphenyl Ethers transfer to milk in lactating goats chronically exposed to contaminated soil. *Envir Sci Tech*, 44(7), 2682-2688

Yann P. Guiavarc'h*, Abir Chahin, Marie-Antoinette Dziurla, Hervé Toussaint, Cyril Feidt, Guido Rychen, 2010. Evaluation of small Dairy ruminant exposure to polycyclic aromatic hydrocarbons: a biomarker approach, *Small ruminant research*, in press, (IF 1.19), 91 (2-3), 141-152

Caboche J, S Denys, C Feidt, P Delalain, K Tack, G Rychen. 2010. Modelling lead bioaccessibility in soils contaminated by mining and smelting activities. *Journal of Environmental science and health*, 45 (10), 1264-1274

Yann P. Guiavarc'h, Abir Chahin, Marie-Antoinette Dziurla, Frances Yen-Potin, Catherine Jondreville, Guido Rychen, 2011. EROD activity in peripheral blood lymphocytes and 1-hydroxypyrene in urine or milk as bioindicators of exposure of dairy ruminant to long term oral exposure to polycyclic aromatic hydrocarbons. *Environmental Toxicology and Chemistry*, 30, Issue 6, pages 1346–1353

Abdourahamane Tankari-Donbadgo, Guéro Yadjji, Nomaou Dan Lamso, Cécile Ducoulombier, Cyril Feidt, Thibault Sterckemann, Guillaume Echevarria et Guido Rychen, 2011. Pollution des fourrages et des sols par les éléments du groupe platine issus de la circulation routière. *Algerian journal of arid environment* 28 vol. 1, n° 1, Janvier 2011: 28-36

Stéphanie Daubié, Jean-François Bisson, Robert Lalonde, Henri Schroeder, Guido Rychen, 2011.
Neurobehavioral and physiological effects of low doses of polybrominated diphenyl ether (PBDE)-99
in male adult rats, Toxicology Letters, in press