

CURRICULUM VITAE

Etat civil

BESNARD Philippe

Né en 1953

Situation à l'Académie

Élu correspondant en 2020

Section 8 : Alimentation Humaine

Titre ou situation actuelle

Professeur émérite

AgroSup Dijon, 25 boulevard du Dr Petitjean, 21000 Dijon

06 37 32 67 37

pbesnard@u-bourgogne.fr

Formations

DEA Physiologie des Régulations (1978, ParisVI)

Thèse 3^{ème} cycle, Physiologie des Régulations, option Endocrinologie (1981, Paris VI)

HDR, (1991, Université de Bourgogne).

Carrière (principaux postes occupés)

Direction d'équipe de recherche, ENSBANA/AgroSup Dijon (1996-2016)

Chaire Nutrition Humaine, ENSBANA/AgroSup Dijon (1996-2018)

Domaine d'expertise

Nutrition, Physiologie digestive, absorption des lipides, métabolisme lipidique, Physiologie gustative, comportement alimentaire, obésité.

Mots Clés

Nutrition, gustation, comportement alimentaire, lipides

Distinctions et prix

2006 Palmes académiques (Chevalier)

2013 Palmes académiques (Officier)

2007 Médaille de vermeil de l'**Académie d'Agriculture de France**.

2010 Prix de Biologie Intégrée de l'**Académie des Sciences**.

2013 Prix annuel de l'**Institut Benjamin Delessert**

Fonctions actuelles ou récentes

Professeur émérite AgroSup Dijon,

Publications

GROBER J., ZAGHINI I., FUJII H., JONES S., KIEWER S.A., WILLSON T.M., ONO T., **BESNARD P.** Identification of a bile acid-responsive element in the human ileal bile acid-binding protein gene. *J. Biol. Chem* 1999, 274, 29749-29754

LAUGERETTE F, PASSILLY-DEGRACE P, PATRIS B, NIOT I, FEBBRAIO M, MONTMAYEUR JP, **BESNARD P.** (2005) CD36 involvement in orosensory detection of dietary lipids : impact on spontaneous fat preference and digestive secretions. *J. Clin. Invest.* 2005, 115: 3177- 3184

GAILLARD D, LAUGERETTE F, DARCEL N, EL YASSIMI A, PASSILLY DEGRACE P, HICHAMI A, KHAN NA, MONTMAYEUR JP, **BESNARD P.** The gustatory pathway is involved in CD36-mediated oro-sensory perception of long-chain fatty acids in the mouse. *FASEB J.* 2008, 22: 1458-1468

NIOT I, POIRIER H, THI THU TRANG T, **BESNARD P.** Intestinal absorption of long-chain fatty acids: evidences and uncertainties. *Prog. Lipid Res.* 2009, 48:101- 115

DRAMANE G, ABDOUL-AZIZE S, HICHAMI A, VÖGTL T, AKPONA S, CHOUABE C, SADOU NIESWANDT B, **BESNARD P.**, KHAN NA. STIM1 regulates PLA₂ and Orai1/3-mediated Ca²⁺ signaling in CD36-positive taste bud cells and preference for fat in mice. *J. Clin. Invest* 2012, 22:2267-82.

CHEVROT M, PASSILLY-DEGRACE P, ANCEL D, BERNARD A, ENDERLI G, GOMES M, ROBIN I, ISSANCHOU S, VERGÈS B, NICKLAUS S, **BESNARD P.** Obesity interferes with the oro-sensory detection of long-chain fatty acids in Human. *Am J Clin Nutr* 2014, 99: 975-983

OZDENER MH, SUBRAMANIAM S, SUNDARESAN S, SERY O, HASHIMOTO T, ASAKAWA Y, **BESNARD P.**, ABUMRAD NA, KHAN NA. (2014) CD36- and GPR120-mediated Ca²⁺ signalling in human taste bud cells mediates differential responses to fatty acids and is altered in obese mice. *Gastroenterology* 2014, 146: 995-1005

BESNARD P., PASSILLY-DEGRACE P, KHAN NA. Taste of fat: a sixth taste modality? *Physiol Rev* 2015, 96: 151-176.

BESNARD P. Lipids and obesity: also a matter of taste. *Rev Endocr Metab Disord* 2016, 17:159-170.

BESNARD P., CHRISTENSEN JE, BRIGNOT H, BERNARD A, PASSILLY-DEGRACE P, NICKLAUS S, PAIS DE BARROS JP, COLLET X, LELOUVIER B, SERVANT F, BLASCO-BAQUE V, VERGES B, LAGROST L, FERON G, BURCELIN R. Obese subjects with specific gustatory papillae microbiota and salivary cues display an impairment to sense lipids. *Sci reports* 2018:6742.

Activités éditoriales

Nutrition (Journal of Applied and Basic Nutritional Sciences)
associated editor (2004-2010)

Short bio (en anglais)

Specialist both in Physiology od Nutrition and Molecular Biology, Philippe Besnard holds a PhD of Endocrinology from Pierre & Marie Curie University (Paris VI). He has spent most of his academic career at the University of Burgundy (National School of Biology Applied to Nutrition and Food – ENSBANA, then at AgroSup Dijon) where he led a research team for 20 years. Its research activity, focused on the impact of eating habits on the regulation of lipid-binding proteins from the digestive tract (Nutrigenomics), has notably contributed to the emergence of a new concept, the existence of a sixth taste modality (the "fat taste") allowing to the oro-perception of dietary lipids and impacting the food choices. As Emeritus Professor, he studies presently the relationships between nutritional obesity and orosensory perception of energy-dense foods.

