



**FASEB**

Federation of American Societies  
for Experimental Biology

Science  
Research  
Conferences

## The Epigenome in Human Health and Diseases Conference

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### Organizer Bio: Jean-Louis Guéant, MD, PhD, DSc

*Professor, Biochemistry-Molecular Biology; Director, Department of Biochemistry-Molecular Biology and Nutrition, University Hospital of Nancy; and Director, UMR-S Inserm 1256 NGERE (Nutrition, Genetics and Exposure to Environmental Risks), Université de Lorraine, and Coordinator, Federation of Clinical Research, ARRIMAGE, Vandoeuvre-les-Nancy, France*

Guéant's area of expertise is focused on the one carbon metabolism and its association with patho-mechanisms of complex metabolic diseases and inherited disorders of cobalamin and folate metabolism. He is also a well-recognized expert in genetic predictors of adverse drug reactions and has made significant contributions in clinical and experimental research of digestive diseases.

Jean-Louis's main contributions to the field have been the description of the mechanisms of digestive transport and metabolism of vitamin B12 and folate; the influence of the one carbon metabolism on the epigenome, cellular stress, energy metabolism and fetal programming in rare and complex metabolic diseases; and a new type of B12 rare metabolic disease produced by an epimutation in *MMACHC* gene promoter and named "Epi-cblC." He has also dissected genetic predictors of allergic drug reactions.

In France, Guéant is President of the section of Medical Biochemistry-Molecular Biology, Physiology, Cell Biology and Nutrition of the National Committee of Universities, President of the National Commission of Medical Biology, and a member of the National Academy of Medicine. He is the Co-chair of the 2022 FASEB Science Research Conference on the one carbon metabolism.

Dr. Guéant is member of the editorial board of *Human Genetics* and *Nutrients*. His scientific production includes 425 articles in Pub Med, with publications in the *New England Journal of Medicine*, *Nature Communications*, *The Lancet*, *PNAS*, *Annals of Internal Medicine*, *Gastroenterology*, *Gut*, *Journal of Hepatology*, *Nucleic Acids Research*, *Journal of Allergy and Clinical Immunology*, and *Blood*, among others.

Dr. Guéant has received the Distinguish Scientist Award of the Sigrid Juselius Foundation, the AGAF award of the American Gastroenterological Association, and the "Prix Elise Cailleret" of the French National Academy of Medicine.