MAMMALIAN GENOME

SPECIAL ISSUE CALL FOR PAPERS

The Combined Role of Genetics and Environment Relevant to Human Disease Outcomes

This special issue will focus on the role of natural variation in biological pathways and populations, in response to and as a consequence of environmental interaction. It will explore human and appropriate model organism models with both in vivo and in vitro approaches to explore the relationships between inter-individual variation and environmental stressors. It will also highlight advances in understanding genetic susceptibility to environmental exposures and mechanisms linking genetic variability with biological effects associated with both chemical and non-chemical (infectious agents, diet, etc.) factors. Studies conducted in appropriate population-based model systems (including human, mouse, rat, zebrafish, Drosophila, etc.) will be considered. Studies using only a single genetic variant model or genetically invariable models are not appropriate for this issue. Challenges of rigor and reproducibility and applications of the data on inter-individual variability for decision-making contexts will also be an important component of this issue. The issue will include commentary and invited review articles in addition to original research contributions in relevant areas.

We invite submissions of original research contributions for this issue by July 31st 2017

Guest editors: Drs Kim McAllister, Karen Svenson, Ivan Rusyn, Steven Kleeberger, Jef French and David Threadgill will coordinate the issue.

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