



Advances in Plant Epigenetics and Epigenomics

Guest Editors:

Dr. Cao Xuan Hieu

Martin-Luther-Universität Halle-Wittenberg, Institute of Biology/Plant Physiology, Weinbergweg, D-06120, Halle (Saale), Germany

xuan.cao@biologie.uni-halle.de

Dr. Vu Thi Ha Giang

Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), D-06466 Gatersleben, Germany

vu@ipk-gatersleben.de

Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editors

Dear Colleagues,

Advancements in high-throughput sequencing technologies and powerful computational tools have provided the unprecedented opportunity to explore the complex epigenetic and chromatin dynamics at genome-wide levels. This Special Issue provides a forum for state-of-the-art studies on plant epigenetics and epigenomics. We welcome submissions of original research, cutting-edge methods, or expert review manuscripts reporting, but not limited to, on the following topics:

- Epigenomics, chromatin compartments, and the functional structure of the plant genome
- Epigenomics and the control of fate, form, and function in plant cells
- Chromatin and epigenome dynamics during plant development and in response to environmental factors
- Bridging plant epigenomics and the mechanisms of epigenetic inheritance and plasticity
- Adaptation and evolution of genetic and epigenetic regulatory networks
- Framework for the integration of genomics, epigenomics, and transcriptomics in crop breeding
- Future of plant research in the age of epigenomics, single-cell epigenomics, and epigenetic editing

