

Special Issue

Molecular Mechanism of Pollen and Pollen Tube Development

Message from the Guest Editor

Flowering plants have evolved pollen tubes that deliver passive and immobile sperm cells into the maternal reproductive organ for double fertilization. This successful reproductive development includes anther and pollen development, pollen tube growth, pollen–pistil interaction, and double fertilization. Agriculturally, the fertilization of flowers directly determines crop yield, and the understanding of pollen development mechanisms contributes to the hybrid technology used for crop breeding. Because climate changes sensitively affect reproductive development, a greater understanding of the genes and environment is crucial. Recently, omics data of gamete tissues and cells as well as the CRSIPR-Cas9 gene editing system have expanded our knowledge through a newly generated mutant gamete gene. We would like to invite you to contribute to this Special Issue by submitting a paper on any of the topics described above, either in the form of an original research article or review.

Guest Editor

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Deadline for manuscript submissions

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