



Jasmonate Signaling

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Welcome to the Gasperini lab!



Top row: Debora, Yunjing; bottom: Mukesh, Marlene, Andreas, Stefan (September 2019)

In our group, we are enticed by the molecular mechanisms governing plant acclimation to the surrounding environment. By using the model plant *Arabidopsis thaliana*, we study the jasmonate (JA) pathway which, through the biologically active conjugate JA-isoleucine (JA-Ile), is essential to protect plants against herbivory, necrotrophic pathogens, mechanical wounding and regulate growth. Currently, our work is centered on three interconnected areas of JA biology: initiation of JA biosynthesis, long-distance translocation of JA-Ile precursors, and cell-type



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specific variations in JA-Ile responses. With our findings, we aim to enhance the basic knowledge of how plants perceive, transmit and integrate environmental information to prompt adaptive metabolic and growth responses.