In planta Particle bombardment (iPB) revolutionizes crop genome editing

Dr. IMAI Ryozo
Leader, Genome Editing Crop Development Group, Division of Crop Genomes Editing Research, NIAS, NARO

Summary

Crop genome editing has entered a commercialization stage. However, dependency on culture-based transgenic approaches hinders the application of this technology to many crop species and varieties. Our new technology, in planta particle bombardment (iPB), is a non-culture method that allows direct editing on the plant body and therefore circumvents many issues associated with cell culture and regeneration in a wide range of crop species. This lecture will be focused on the principle, procedure, application as well as future perspective of the iPB technology.