

## Genome editing for crop improvement

S.K. Svtashev

*Corteva Agriscience, Johnston, IA, USA*

*\* [sergei.svtashev@corteva.com](mailto:sergei.svtashev@corteva.com)*

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CRISPR-Cas mediated genome editing is a powerful technology and has a wide-ranging application in plant breeding. However, despite significant progress and development of new approaches, the efficiency of genome editing depends on various factors including type of genome modification required, plant transformation efficiency, target site availability, etc. At Corteva Agriscience, we combined advanced sequencing technologies, progress in plant transformation of elite germplasm, and new vector design to improve genome editing efficiency. Examples of successful utilization of CRISPR-Cas technology for precision breeding and crop improvement will be discussed.