

# 2022 CSSA Division Awards for Outstanding Paper

February 24, 2023

**Crop Science**



Most CSSA divisions award outstanding papers annually from papers published in Crop Science. Division awards are chosen from all articles published in the preceding calendar year with selection based on appropriate scientific merit in their topic areas. Several divisions published their 2022 winners in the November 2022 issue of CSA News magazine (see <https://doi.org/10.1002/csan.20883>). The winners for the Crop Breeding and Genetics (C01) and Forage & Grazinglands (C06) divisions are published [here](#).

## **Crop Science Crop Breeding and Genetics (C01) Winners**



Jeffrey Neyhart

*Jeffrey Neyhart*

"Using Environmental Similarities to Design Training Sets for Genomewide Selection" by Jeffrey L. Neyhart, Lucía Gutiérrez, and Kevin P. Smith: <https://doi.org/10.1002/csc2.20303>



Holly Lane

*Holly Lane*

"High Throughput Can Produce Better Decisions Than High Accuracy When Phenotyping Plant Populations" by Holly M. Lane and Seth C. Murray: <https://doi.org/10.1002/csc2.20514>



Linghe Zeng

*Linghe Zeng*

"Comparative Study of Transgenic and Nontransgenic Cotton" by Linghe Zeng, Jixiang Wu, Fred M. Bourland, B. Todd Campbell, Jane K. Dever, Steve Hague, Gerald O. Myers et al.:  
<https://doi.org/10.1002/csc2.20522>



Paolo Rodrigues

*Paolo Rodrigues*

"An Analysis of Simulated Yield Data for Pepper Shows How Genotype  $\times$  Environment Interaction in Yield Can Be Understood in Terms of Yield Components and Their QTLs" by Paolo C. Rodrigues, Ep Heuvelink, Leo F.M. Marcelis, Scott C. Chapman, and Fred A. Van Eeuwijk: <https://doi.org/10.1002/csc2.20476>



Jens Hartung

*Jens Hartung*

"Effect of Missing Values in Multi-Environmental Trials on Variance Component Estimates"

by Jens Hartung and Hans-Peter Piepho: <https://doi.org/10.1002/csc2.20621>

## **Crop Science Crop Breeding and Genetics (C01) Honorable Mentions**



Paolo Annicchiarico

*Paolo Annicchiarico*

"Breeding Gain From Exploitation Of Regional Adaptation: An Alfalfa Case Study" by Paolo Annicchiarico: <https://doi.org/10.1002/csc2.20423>



Madhav Bhatta



Pablo González-Barrios

*Left: Madhav Bhatta, Right: Pablo González-Barrios*

"Upgrading a Maize Breeding Program Via Two-Cycle Genomewide Selection: Same Cost, Same or Less Time, and Larger Gains" by Rex Bernardo: <https://doi.org/10.1002/csc2.20516>

"Speed Breeding and Early Panicle Harvest Accelerates Oat (*Avena Sativa* L.) Breeding Cycles" by Pablo González-Barrios, Madhav Bhatta, Madalene Halley, Pablo Sandro, and Lucía Gutiérrez: <https://doi.org/10.1002/csc2.20269>



Rex Bernardo



Martine Jean

*Left: Rex Bernardo, Right: Martine Jean*

"Predictive Breeding in Maize During the Last 90 Years" by Rex Bernardo:

<https://doi.org/10.1002/csc2.20529>

"Improvement of Key Agronomical Traits in Soybean Through Genomic Prediction of Superior Crosses" by Martine Jean, Elroy Cober, Louise O'Donoughue, Istvan Rajcan, and François Belzile: <https://doi.org/10.1002/csc2.20583>

## **Crop Science Forage & Grazinglands (C06) Winners**

"Water Footprint, Herbage, and Livestock Responses for Nitrogen–Fertilized Grass–Legume Grazing Systems" by David Mirabedini Jaramillo, José C.B. Dubeux, Lynn E. Sollenberger, Joao M.B. Vendramini, Cheryl Mackowiak, Nicolas D Lorenzo, Liza Garcia et al.: <https://doi.org/10.1002/csc2.20568>

"Fallow Replacement Cover Crops in a Semi–Arid High Plains Cropping System" by Johnathon D. Holman, Augustine K. Obour, and Yared Assefa: <https://doi.org/10.1002/csc2.20543>

"Enzymatic and Biochemical Alterations in Relation to Lignin Deposition at Different Growth Stages of Tall Fescue" by Siddhartha Singh, Rajan Katoch, and Neelam Sharma: <https://doi.org/10.1002/csc2.20493>

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