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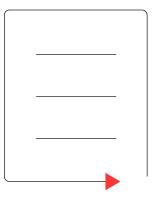
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Daniela Saderi

ORCID iD: 0000-0002-6109-0367 Member since May 2019

Research profile

Current position Visiting Scholar at Oregon Health & Science University

Research field Neuroscience

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PREreview on: Subdivision of light signalling networks contributes to cellular partioning of C4 photosynthesis in maize

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Research field

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Subdivision of light signalling networks contributes to cellular partioning of C4 photosynthesis

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Ross-W Henderson, Steven Kelly

Preprint published 7th December, 2018. First reviewed on 18 Jan, 2019

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photosynthesis in maize Subdivision of light signalling networks contributes to cellular partitioning of C4

AuthorsRoss-W. Hendron and Steven Kelly

Affiliations

Department of Plant Sciences, University of Oxford, South Parks Road, Oxford, OX1 3RB

Corresponding Author
Email: steven.kelly@plants.ox.ac.uk; Telephone: +44 (0)1865 275123

biophysical light filtration. We further show the blue light (but not red) is necessary and show that differences in light perception between mesophyll and bundle sheath cells identity of the regulatory networks that facilitate this partitioning are unknown. Here we the expression of photosynthesis genes is partitioned such that leaf mesophyll and to growth and environmental changes. In species that conduct two-cell C₄ photosynthesis, Plants coordinate the expression of genes required to conduct photosynthesis in response both red and blue sufficient to activa accumulate in mesophyll and bundle sheath cells in a manner that is consistent with Zea mays (maize). We show that transcripts encoding photoreceptors differentially facilitate differential regulation and accumulation of photosynthesis genes in the C4 crop vascular sheath cells accumulate different components of the photosynthetic pathway. The ophyll cells, while arley). Finally, we

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Subdivision of light signalling networks contributes to cellular partioning of C4 photosynthesis in maize

Ross-W Henderson, Steven Kelly

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3 PREreviews

David Wilson

THURSDAY JANUARY 17 2019

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AuthorsRoss-W. Hendron and Steven Kelly

Affiliations

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EDIT MODE

Last saved at 8:00pm on July 7 2019



Normal

41









- What is the main question the study attempts to answer?
- What are the hypotheses?

Key questions

- What techniques do the researchers adopt to test their hypotheses?
- Why is this study relevant?

Your perspective

- General comments you might have about the research approach.
- and methods used in the study Specific comment you might have about experimental approaches
- the results just by looking at the figures) related to the way data are displayed and your ability to understand Specific comment/note about figures in the paper (this could be
- such as typos and structure of the manuscript). Additional comment you might have (this includes minor concerns