

1933

The Leaf as a Propagative Organ

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Recommended Citation

Yarbrough, John A. (1933) "The Leaf as a Propagative Organ," *Proceedings of the Iowa Academy of Science*, 40(1), 78-78.

Available at: <https://scholarworks.uni.edu/pias/vol40/iss1/17>

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chromosome count to establish the time and place of meiosis, but the fact that each spore, though receiving but one nucleus, carries the full complement of sex factors, suggests that disjunction of sex factors does not occur in the basidium. Disjunction, and possibly numerical reduction may be delayed until nuclear division in the spore.

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THE LEAF AS A PROPAGATIVE ORGAN

JOHN A. YARBROUGH

That the leaves of a number of plants may be utilized as a means of propagation is appreciated in both the practical and theoretical field. The precise manner of such vegetative propagation has been investigated by the author in two cases, *Bryophyllum* and *Tolmiea*. These are representatives of a type which is to be contrasted with the *Begonia* type. A restatement of the morphological principles involved in well known cases of propagation by leaves has been attempted.

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VERNATION IN SOME IOWA WOODY PLANTS

H. D. HARRINGTON

A list of three or four hundred woody plants of Iowa with the vernation of each. A general discussion of vernation and presentation of a foot-focusing device for the binocular microscope used in this investigation.

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