"From Manuscript to Publication: Understanding the Publishing Process"

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Introduction

- Why do you need to get your research paper published?
- Overview of Presentation
 - Manuscript
 - Choosing the right journal
 - Writing style
 - Peer review and appropriate responses
 - Copyright and ethics
 - Preparing for publication
 - Editorial decision
 - Publication and dissemination

Case study: Reading a Primary Research from Plant Physiology

This case study examines a recent article published in the Plant Physiology. The full article is appended to this PDF. Be of space constraints, only the major points from the paper are covered in the case study, and the biochemical pathway is presented in simplified form.

Title

The b Gene of Pea Encodes a Defective Flavonoid 3',5'-Hydroxylase, and Confers Pink Flower Color^{1[W][OA]}

Carol Moreau, Mike J. Ambrose, Lynda Turner, Lionel Hill, T.H. Noel Ellis, and Julie M.I. Hofer* Department of Metabolic Biology (C.M., L.H.) and Department of Crop Genetics (M.J.A., L.T.), John Inne Centre, Norwich NR4 7UH, United Kingdom; and Institute of Biological, Environmental, and Rural Science Aberystwyth University, Gogerddan Campus, Aberystwyth, Cenedigion SY23 3EB, United Kingdom (T.H.N.E.,

The inheritance of flower color in pea (Plower satismer) has been studied for more than a century, but many of the genes corresponding to these classical loci remain unidentified. Anthocyanims are the main flower pigments in pea. These an generated via the flaveneid biosynthetic pathway, which has been statiated in detail and in well conserved among higher plants. A previous proposal that the Conserve (II) gene of pas controls hydroxylation at the 'P position of the B ring of flaveneid previous of the ambecynium suggested to us that the gene encoding flaveneid 7.5-Aydroxylass (373711), the

versus precursors or me antisectation suggests to an test the grine exciting traversal $T \geq 0$ -systems of $T \geq 0$, where that hydroxylates the $T \geq 0$ position of the B ring, use a good candidate for B. In order to test this hypothesis, we read mutants generated by last neutron bombandment. We found allelic pick-flowered b mutant listes fluit carried a start of lesions in an TTTH gene, including complete gene deletions. The b mutants lacked glycosylated delphisation and tankar, the major pigments present in the programme parple-flowered with type pear. These results, combined with the

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ary metabolites that are involved in pigmentation, defernse, fertility, and signaling in plants (Geotewold, 2006). Their basic skeleton consists of two six-carbon aromatic rings, A and B, connected by ring C, a threecarbon oxygenated heterocycle. Flavonoids are divided into different subclasses according to the oxidation state of the C ring, and compounds within each subclass are characterized by modifications such as hydroxylation, methylation, glycosylation, and acylation. Anthocyanins, for example, the major water-soluble pigments in flowers, have a fully unsaturated C ring and are usually

glycosylated at position 3. Two important determinants of flower color are the cytochrome P450 enzymes This work was supported by the European Union FP6 Geain Legames Integrated Project (grant ins FOOD-CT-2004-306223 to (MJH) and by the Department for Environment, Food, and Runil Adlairs Puls-

had to variation in pigmentation among legume species.

Playonoids are a large class of polyphenolic second-

Crop Genetic Improvement Network (grant no. ABIP11 to C.M., L.T., THNE, and MIAL Corresponding author: e-mail jmb198iaber.ac.uk. The authors responsible for distribution of materials integral to the findings presented in this article in accordance with the policy described in the Instructions for Authors how plantphysiclorg) in Jula M. I. Hoter (jmb/940aber.ac.ak) and Mike J. Ambrose (mike)

andresse@jic.sc.uk3 ^{pei}] The celline version of this article contains Web-only data. 1934] Open Access articles can be viewed online without a subscripwww.plantphysiol.org/cgi/doi/101104/pp.112.197917

Indiag that the PTTPI goes insequences with b in a generic mapping population, singely support our hypothesis that the P gene of para corresponds to a PTTPI gree. The molecular characterization of genes involved in pagementation in para provides calculated and/our markers for comparative kagema generics and will help in identify differences in anthecy and biosynthesis that In-text citation: 13.21) and fla-Full citation: is 14.13.80. These nin procursor found at the end of plerol, general din-3-glacoside be seen in a the article

> loral pign tation has a long history, beginning with crosses made between white- and purple-flowered varieties of gar den pea (Pisum satirum; Kright, 1799; Mendel, 1866). Later crosses made between white-flowered P. satirum and rose-pink-flowered Pisum arcense defined two factors conferring flower color as A and II, respectively (Tschermak, 1911). The white flowers of pea anthoxyaninishibition (a) mutants lack anthocyanins and flavones (Statham et al., 1972), in accordance with the role of A as a fundamental factor for pigmentation (Tschermak, 1911; De Haan, 1930). Another locus in pea, a2, similarly confers a white-flowered phenotype lacking anthocyanins and other flavonoid compounds (Marx et al., 1989). It was shown that A and A2 regulate the expression of genes encoding flavonoid biosynthetic enzymes (Harker et al., 1990; Uimari and Strommer, 1998), and recently they were identified as a basic helix-loop-helix (bHLH) transcription factor and a WD40 nepeat protein, respectively (Hellens et al., 2010). They are likely to be components of the Myb-bHLH-WD4) transcription factor complex that regulates flavonoid biosynthesis in all plant species studied so far (Koes et al., 2005; Ramsay and

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Sant Physiology⁹, June 2012, Vol. 179, pp. 778–708, www.plantphysiol.org @ 2012 American Society of Plant Basington. All Rights Reserved.

The first page of a typical article from Plant Physiology. (See text for more information about each section)

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The Manuscript

Choosing the Right Journal

- Criteria for Selecting a Journal: Consider factors like relevance to your field, impact factor/journal ranking, acceptance rate, and publication fees
- Use JOURNAL FINDER websites, e.g. <u>Taylor and</u> <u>Francis</u>
- Open Access vs. Traditional Journals: The pros and cons



Writing Style and Guidelines

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- Importance of Following Journal Guidelines
- Formatting (font, spacing, margins)
- Citations and References (APA, MLA, Chicago)



Preparing for Publication

- Proofreading and Editing to ensure clarity and coherence
- Finalizing Manuscript for Submission: Provide a checklist for finalizing the manuscript before submission, including checking for grammar, spelling, and formatting errors
- Submitting Manuscript to Journal: Walk through the steps of submitting a manuscript online through a journal submission system

Peer Review Process

- Peer Review: Process where experts evaluate the quality and validity of the manuscript before publication
- Importance of Peer Review: Ensures the credibility and reliability of published research
- Types of Peer Review





Responding to Peer Review

- Handling Criticism Constructively: Addressing reviewer comments appropriately without becoming defensive
- Revisions and Resubmission: Follow the prescribed steps/formats
- Addressing Peer Reviewer Comments: Display a before-and-after comparison of sections revised based on reviewer suggestions

Copyright and Permissions

- Obtaining Permissions for Figures and Data
- Creative Commons Licenses: Different types of Creative Commons licenses and how they affect the use and distribution of published work





Editorial Decision

- Reviewing Editor's Decision: The different types of editorial decisions and their implications
- Acceptance, Rejection, or Revision: Common reasons for each type of decision and how authors can respond accordingly
- Next Steps Based on Editorial Decision: The next steps after receiving the editorial decision, such as revising the manuscript or selecting another journal for submission



- Final Manuscript Preparation: The final formatting requirements for the accepted manuscript before publication
- Online Publication and DOI Assignment
- Promoting Your Published Work through social media, academic networks, and conferences



Post-Publication Considerations

- Tracking Citations and Impact: tools and methods for tracking citations and measuring the impact of published work
- Responding to Feedback and Engaging with Readers: Respond to comments and questions from readers to foster discussion and collaboration
- Revising and Updating Published Work: Example: Revise and update published work, such as publishing corrections or follow-up studies



Resources and Support

Writing Resources : chatgpt, grammarly, turnitin

Institutional Support

Professional Associations and Networks related to the field of study for support and collaboration

Questions?

- Thank You
- Any questions?
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