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Urban Andersson, Göteborgs universitetsbibliotek  
Mötesplats Open Access, Lund, 25 nov. 2010



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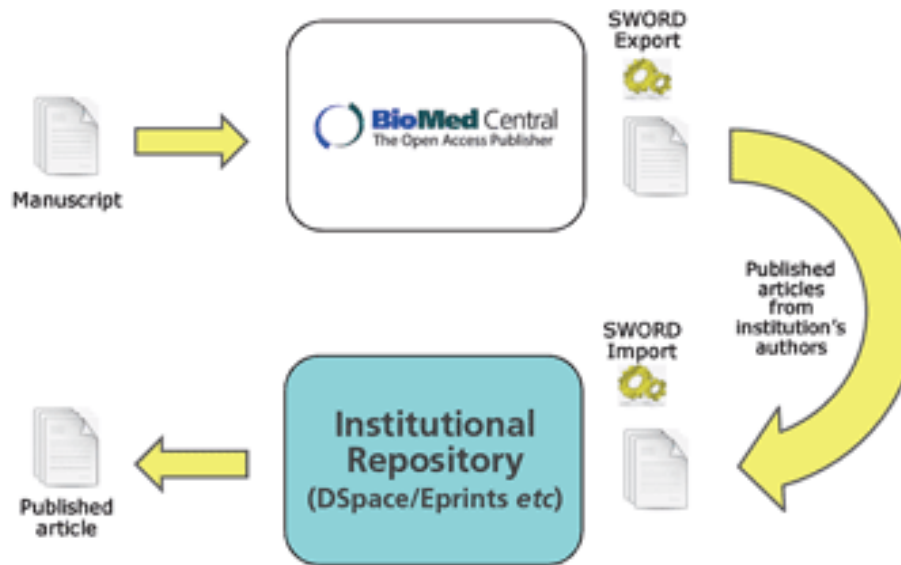


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Background	
Results	
Discussion	
Conclusions	
Methods	
Authors' contributions	Thomas Marcussen <sup>1</sup> , Bengt Oxelman <sup>2</sup> , Anna Skog <sup>1</sup> and Kjetill S Jakobsen <sup>1</sup>
Acknowledgements	<sup>1</sup> Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biology, University of Oslo, 0316 Oslo, Norway <sup>2</sup> Department of Plant and Environmental Sciences, University of Gothenburg, SE-40530 Göteborg, Sweden
References	

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Volume 10

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**Title:** Evolution of plant RNA polymerase IV/V genes: evidence of subneofunctionalization of duplicated *NRPD2/NRPE2*-like paralogs in *Viola* (Violaceae)

**Authors:** Marcussen, Thomas  
Oxelman, Bengt  
Skog, Anna  
Jakobsen, Kjetill S

**Issue Date:** 2009-12-31

**Abstract:** Background DNA-dependent RNA polymerase IV and V (Pol IV and V) are multi-subunit enzymes occurring in plants. The origin of Pol V, specific to angiosperms, from Pol IV, which is present in all land plants, is linked to the duplication of the gene encoding the largest subunit and the subsequent subneofunctionalization of the two paralogs (*NRPD1* and *NRPE1*). Additional duplication of the second-largest subunit, *NRPD2/NRPE2*, has happened independently in at least some eudicot lineages, but its para... more

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**Titel:** Evolution of plant RNA polymerase IV/V genes: evidence of subneofunctionalization of duplicated NRPD2/NRPE2-like paralogs in Viola (Violaceae)

**Författare:** Marcussen, Thomas  
Oxelman, Bengt  
Skog, Anna  
Jakobsen, Kjetil S

**Utgivningsdatum:** feb-2010

**Publikationstyp:** article, peer reviewed scientific

**Sammanfattning:** DNA-dependent RNA polymerase IV and V (Pol IV and V) are multi-subunit enzymes occurring in plants. The origin of Pol V, specific to angiosperms, from Pol IV, which is present in all land plants, is linked to the duplication of the gene encoding the largest subunit and the subsequent subneofunctionalization of the two paralogs



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