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SOBRE LA CONVOCATORIA DE SEXENIOS DE  
INVESTIGACIÓN 2023

*Claves para abordar la preparación de  
aportaciones*

30 de enero de 2024, 16:30-18:30  
RECTORADO, Salón de Actos

PONENTES:

**ÁNGEL DELGADO VÁZQUEZ**  
*Universidad Pablo de Olavide*  
**ANTONIO GONZÁLEZ MOLINA**  
*Universidad de Córdoba*

En colaboración con la Unidad de  
Investigación Asociada CSIC-UCO  
"Innovación y Transferencia de  
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# Sobre la convocatoria de sexenios de investigación 2023. Claves para abordar la preparación de aportaciones

Notas prácticas sobre indicios de calidad.  
Fuentes principales.

30/01/2024

Antonio González Molina. Unidad de Información y Evaluación Científica.  
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 Buters J., Clot B., Galan C., Gehrig R., Gilge S., Hentges F., O'Connor D., (...), Stjepanovic B.  
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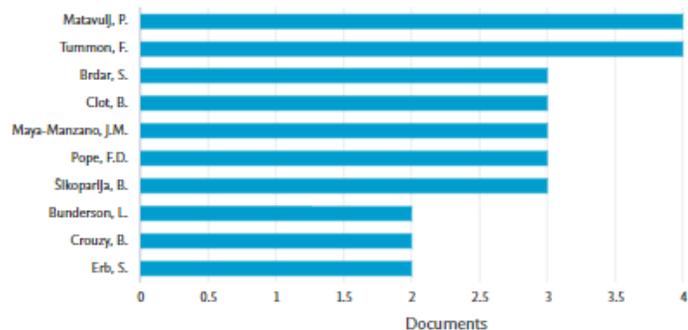
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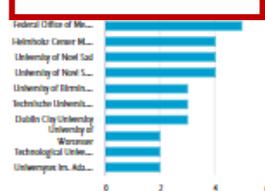
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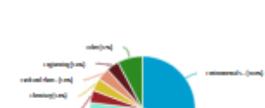
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## Automatic detection of airborne pollen: an overview

Buters, Jeroen<sup>a</sup> ; Clot, Bernard<sup>b</sup> ; Galán, Carmen<sup>c</sup> ;

Gehrig, Regula<sup>d</sup> ; Gilge, Stefan<sup>e</sup> ; Hentges, François<sup>f</sup> ;

O'Connor, David<sup>g</sup> ; Sikoparija, Branko<sup>h</sup> ; Skjoth, Carsten<sup>i</sup> ;

Tummon, Fiona<sup>j</sup> ; Adams-Groom, Beverley<sup>k</sup> ; Antunes, Célia M.<sup>l</sup>

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<sup>a</sup> Center Allergy and Environment (ZAUM), Member of the German Center for Lung Research (DZL), Technical University Munich / Helmholtz Center Munich, Munich, Germany

<sup>b</sup> Federal Office of Meteorology and Climatology MeteoSwiss, Payerne, Switzerland

<sup>c</sup> International Campus of Excellence On Agrifood (ceiA3), Andalusian Inter-University Institute for Earth System Research (IISTA), University of Cordoba, Cordoba, Spain

<sup>d</sup> Federal Office of Meteorology and Climatology MeteoSwiss, Zurich, Switzerland

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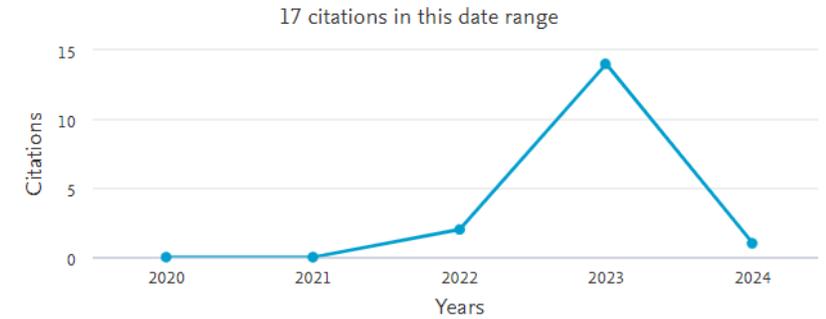
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c International Campus of Excellence On Agrifood (ceiA3), Andalusian Inter-University Institute for Earth System Research (IISTA), University of Cordoba, Cordoba, Spain  
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Citation Data: Aerobiologia, ISSN: 1573-3025  
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### Article Description

Pollen monitoring has traditionally been carried out using manual methods first developed in the early 1950s. Although this technique has been recently standardised, it suffers from several drawbacks, notably data usually only being available with a delay of 3–9 days and usually delivered at a daily resolution. Several automatic instruments have come on to the market over the past few years, with more new devices also under development. This paper provides a comprehensive overview of all available and developing automatic instruments, how they measure, how they identify airborne pollen, what impacts measurement quality, as well as what

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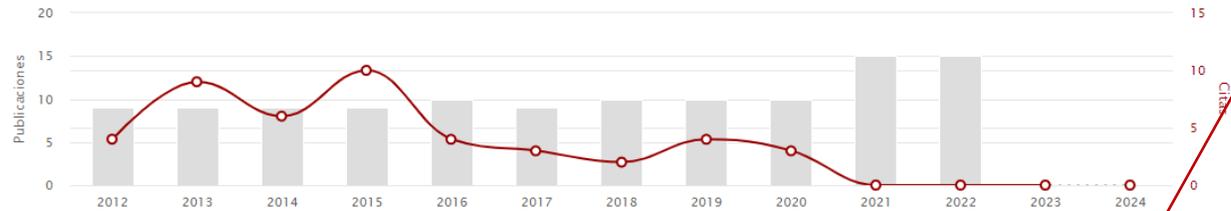
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**Automatic detection of airborne pollen: an overview**

Jeroen Buters, Bernard Clot, Carmen Galán, Regula Gehrig, Stefan Gilge, François Hentges, D...  
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Pollen monitoring has traditionally been carried out using manual methods first developed in the early 1950s. Although this technique has been recently standardised, it suffers from several drawbacks...

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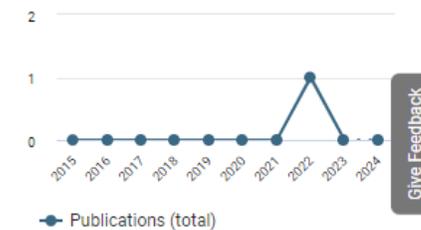
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University of Evora, Portugal
- David J O'Connor 1  
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## Automatic detection of airborne pollen: an overview

Aerobiologia, 1-25 - July 2022

<https://doi.org/10.1007/s10453-022-09750-x>

### Authors

[Jeroen Buters](#) - German Center for Lung Research

[Bernard Clot](#)

[Carmen Galán](#) - University of Córdoba

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### Abstract

Pollen monitoring has traditionally been carried out using manual methods first developed in the early 1950s. Although this technique has been recently standardised, it suffers from several drawbacks, notably data usually only being available with a delay of 3–9 days and usually delivered at a daily resolution. Several automatic instruments have come on to the market over the past few years, with more new devices also under development. This paper provides a comprehensive overview of all available and developing automatic instruments, how they measure, how they identify airborne pollen, what impacts measurement quality, as well as what potential there

### Acknowledgements

The authors would like to thank all EUMETNET AutoPollen members for their participation and engagement, without which this paper would not have been possible. The authors would warmly like to acknowledge the input from the following instrument manufacturers: Droplet Measurement Technologies, Helmut Hund GmbH, Plair SA, PollenSense, Swisens AG, Nam Cao at the University of Graz, and Yamatronics Co. Ltd. Branko Sikoparija acknowledges financial support from the Ministry of Education, Science and Technological Development of the Republic of Serbia (Grant No. 451-03-9/2021-14/200358) and the BREATHE project funded by the Science Fund

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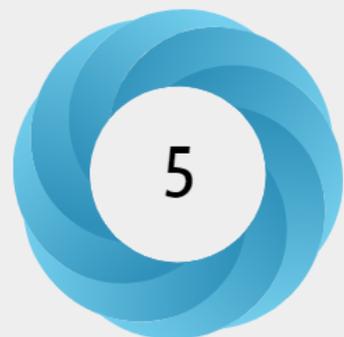
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# Automatic detection of airborne pollen: an overview

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Overview of attention for article published in *Aerobiologia*, July 2022

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water-16-00231.pdf (1.980Mb)

Autor  
Castro Orgaz, O.  
Hager, Willi H.

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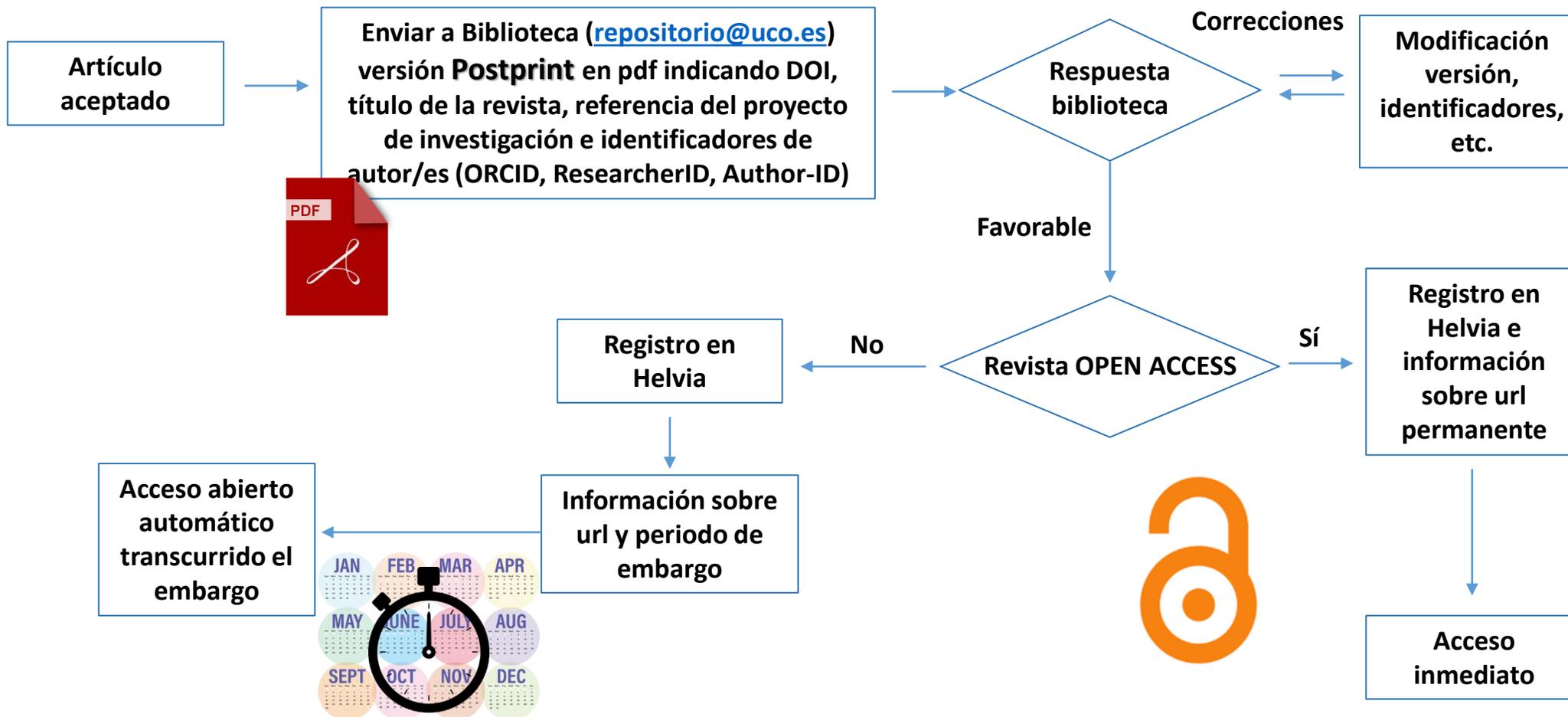
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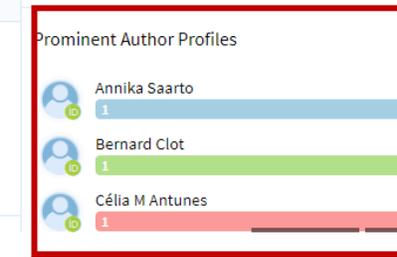
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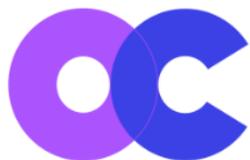
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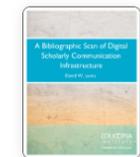
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