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Alexandre López-Borrull

Estudis Ciències de la Informació i la Comunicació

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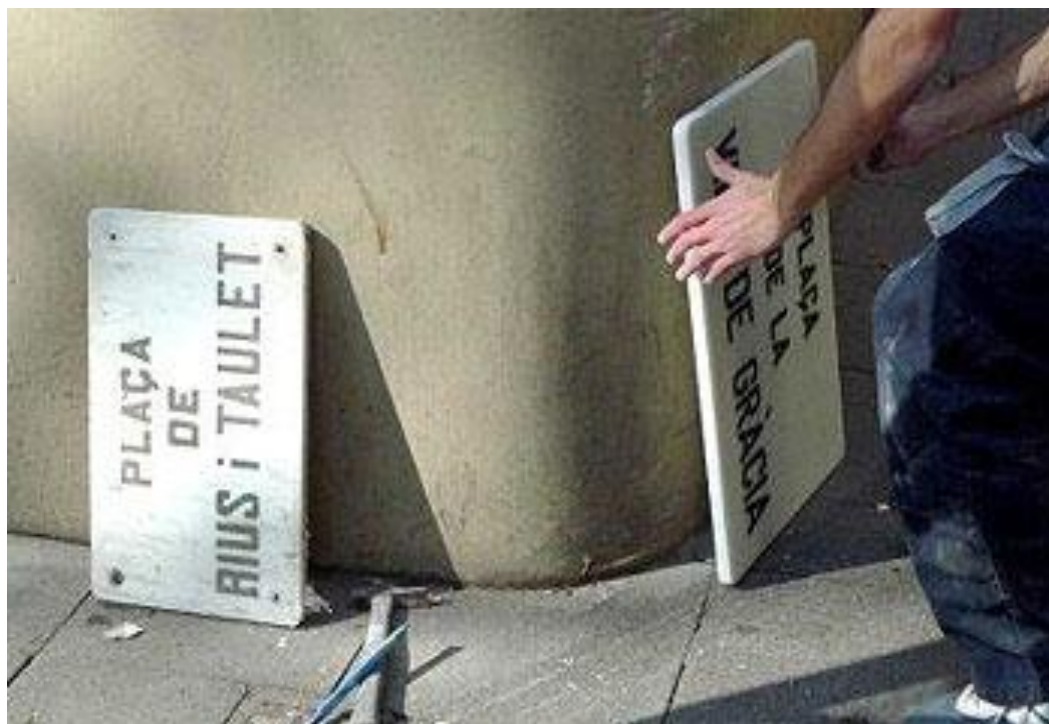
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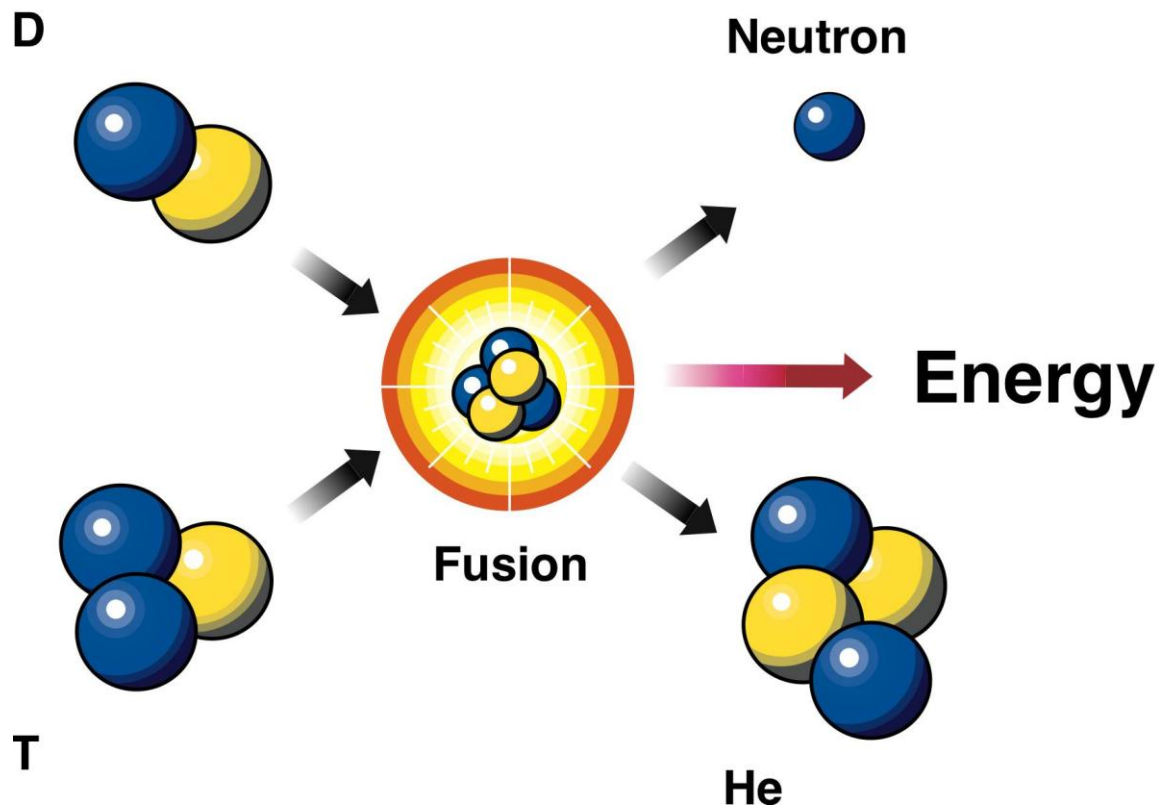
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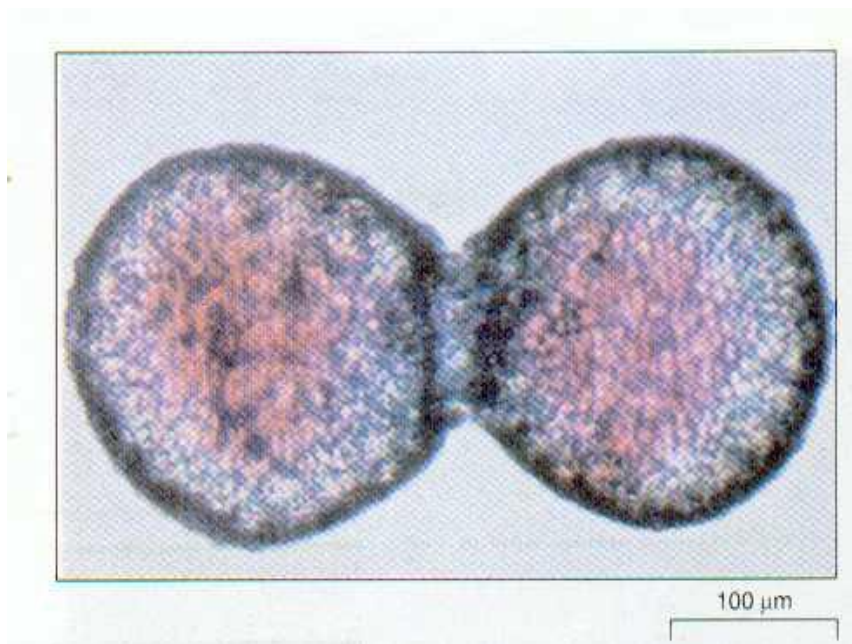


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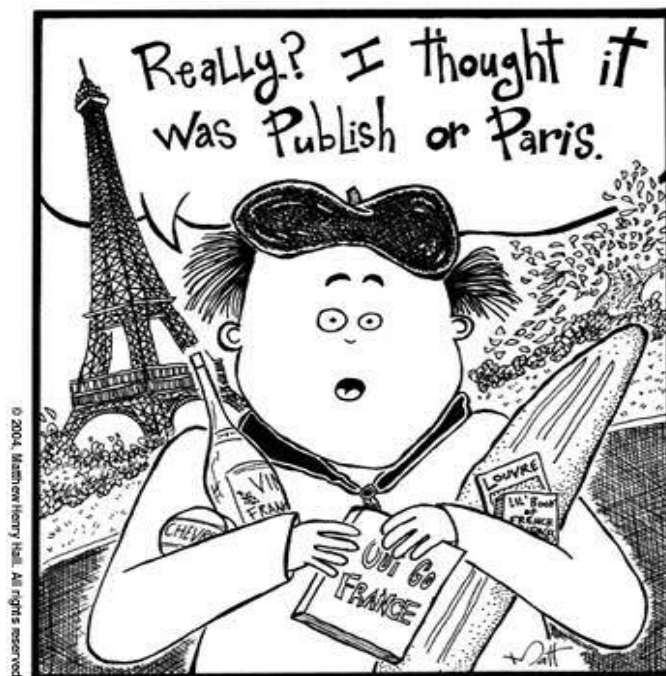
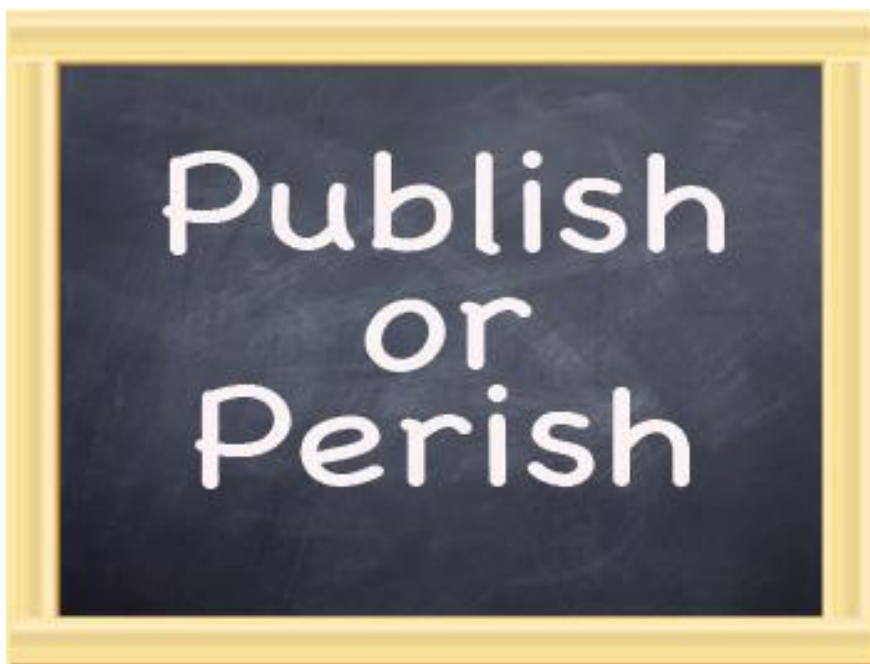
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You're number twenty-one!"

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Esperances: dipòsits digitals



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- **Format**
- **Connectivitat**
- **Material Suplementari**
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Format

“una versió electrònica idèntica tant en contingut com en presentació a la versió en paper és una oportunitat perduda”

(CJ Hildyard & BJ Whitaker, 1996)



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Research Article

The Novel Polymorphic Form of Bis(3,5,7-triaza-1-azoniatricyclo[3.3.1.1^{3,7}]decane) bis(μ_4 -oxo)-tris(μ_3 -oxo)-nonakis(μ_2 -oxo)-nonaqua-decaoxo-hepta-molybdenum-di-zinc(II) dihydrate, Synthesis, and Properties

Rafal Kruszynski, Tomasz Sieranski, Bartłomiej Lewinski, Agata Trzesowska-Kruszynska, and Ewelina Czubacka

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Research

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Genotypes and serotype distribution of macrolide resistant invasive and non-invasive *Streptococcus pneumoniae* isolates from Lebanon

Nedal Taha¹, George F Araj^{3†}, Rima H Wakim², Souha S Kanj⁴, Zeina A Kanafani⁴, Ahmad Sabra⁵, Marie-Therese Khairallah¹, Farah J Nassar¹, Marwa Shehab⁵, Maysa Baroud⁵, Ghassan Dbaibo^{2†} and Ghassan M Matar^{1*†}

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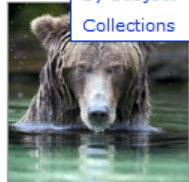
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IMAGE

A coastal grizzly fishes for salmon. Grizzly bears transfer salmon nutrients and energy to watersheds, and their densities are strongly coupled to salmon abundance. Owing to these qualities, they are considered surrogates for salmon ecosystem function in research that evaluates trade-offs between grizzlies and fisheries. See [Levi, et al. \(e1001303\)](#), in this issue. *Image Credit: Eric Sambol/www.raincoast.org*

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RESEARCH ARTICLE



A c-di-GMP Effector System Controls Cell Adhesion by Inside-Out Signaling and Surface Protein Cleavage

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Peter D. Newell¹, Chelsea D. Boyd¹, Holger Sondermann², George A. O'Toole^{1*}

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Abstract [Top](#)

In *Pseudomonas fluorescens* Pf0-1 the availability of inorganic phosphate (Pi) is an environmental signal that controls biofilm formation through a cyclic dimeric GMP (c-di-GMP) signaling pathway. In low Pi conditions, a c-di-GMP phosphodiesterase (PDE) RapA is expressed, depleting cellular c-di-GMP and causing the loss of a critical outer-membrane adhesin LapA from the cell surface. This response involves an inner membrane protein LapD, which binds c-di-GMP in the cytoplasm and exerts a periplasmic output promoting LapA maintenance on the cell surface. Here we report how LapD differentially controls maintenance and release of LapA: c-di-GMP binding to LapD promotes interaction with and inhibition of the periplasmic protease LapG, which targets the N-terminus of LapA. We identify conserved amino acids in LapA required for cleavage by LapG. Mutating these residues in chromosomal *lapA* inhibits LapG activity in vivo, leading to retention of the adhesin on the cell surface. Mutations with defined effects on LapD's ability to control LapA localization in vivo show concomitant effects on c-di-GMP-dependent LapG inhibition in vitro. To establish the physiological importance of the LapD-LapG effector system, we track cell attachment and LapA protein localization during Pi starvation. Under this condition, the LapA adhesin is released from the surface of cells and biofilms detach from the substratum. This response requires c-di-GMP

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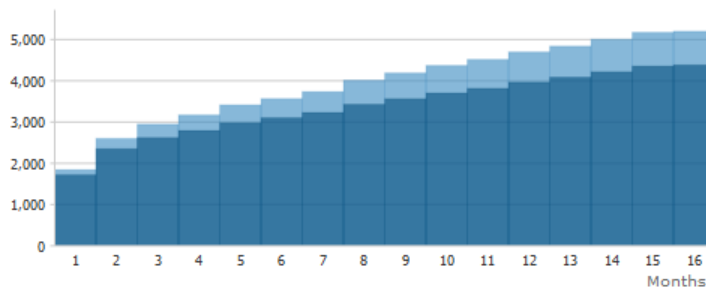
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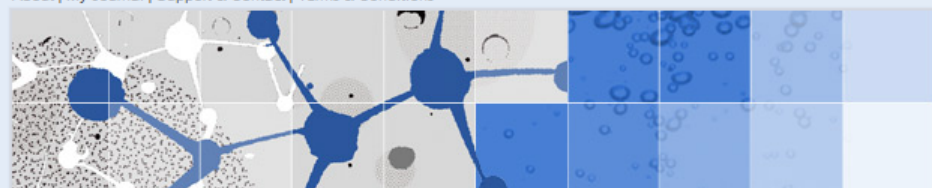
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Synthesis of 2,6-disubstituted tetrahydroazulene derivatives

Zakir Hussain^{1,2}, Henning Hopf¹, Khurshid Ayub² and S. Holger Eichhorn³

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Full Research Paper

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Abstract

Synthesis of hydroazulene derivatives has been carried out through a ring-enlargement route by using carbene adduct intermediates. The protocol can be applied for the construction of functionalized hydroazulene skeletons as key components of many natural products as well as the core system of novel liquid-crystalline materials.

Keywords: carbene addition; hydroazulenes; liquid crystals; ring expansion

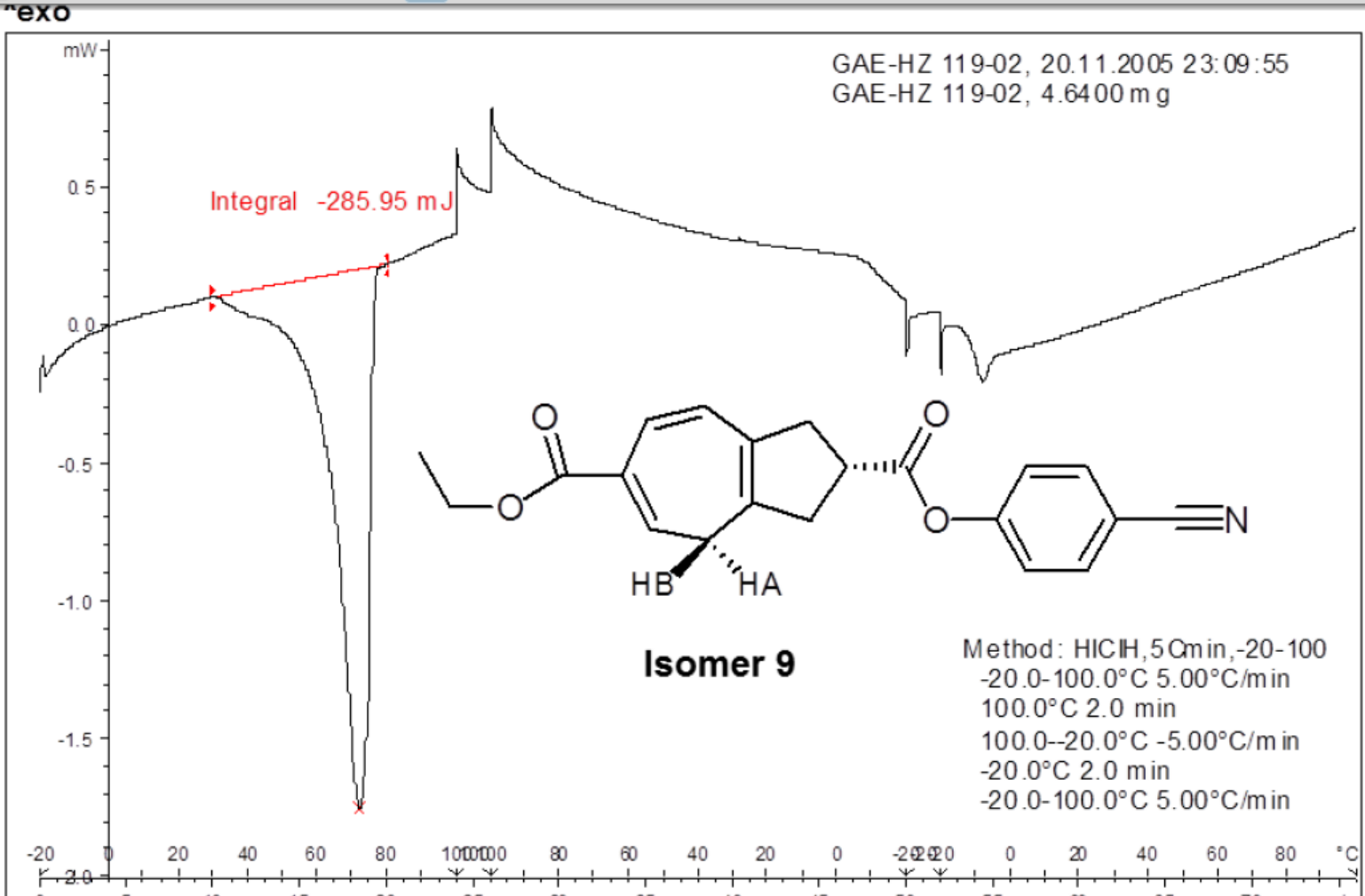
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Introduction

Hydroazulene skeletons provide the basic ring systems of natural products, such as guaianolide sesquiterpenes [1,2] and the so-called furanether B series [3,4]. The stereoselective synthesis of *trans*-hydroazulene derivatives by a tandem Michael/intramolecular Wittig approach was reported previously [5]. Recently, a new synthetic method

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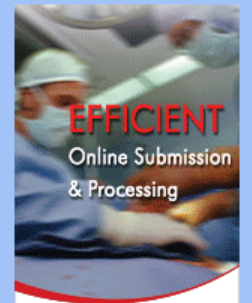
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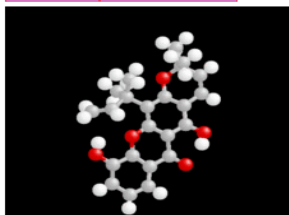
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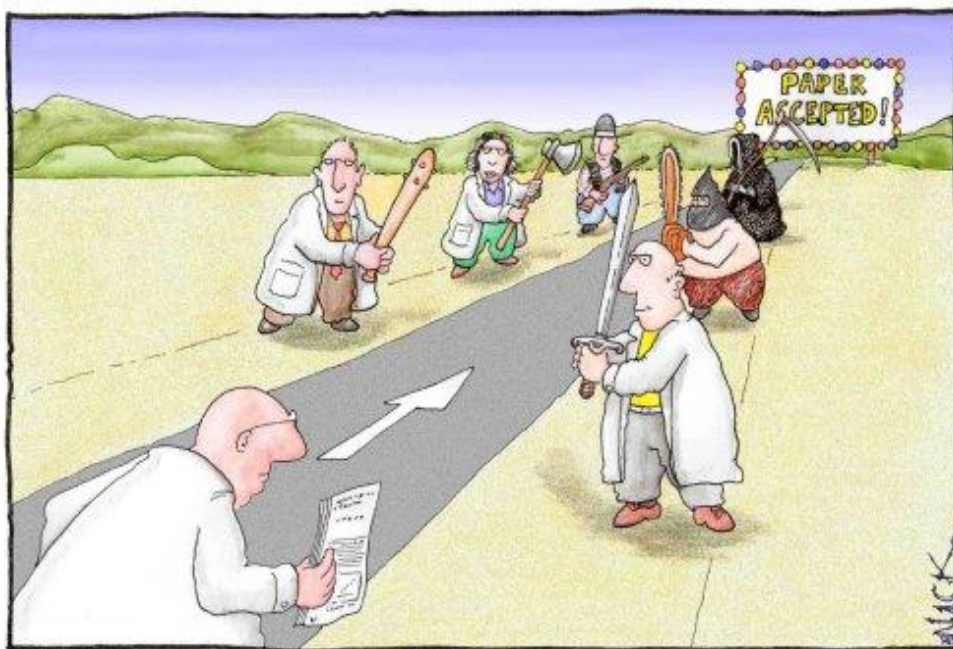
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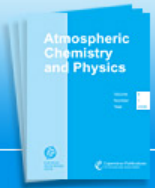
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 doi:10.5194/acpd-12-11201-2012
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Long-term volatility measurements of submicron atmospheric aerosol in Hyytiälä, Finland

S. A. K. Häkkinen, M. Äijälä, K. Lehtipalo, H. Junninen, J. Backman, A. Virkkula, T. Nieminen, M. Vestenius, H. Hakola, M. Ehn, D. R. Worsnop, M. Kulmala, T. Petäjä, and I. Riipinen

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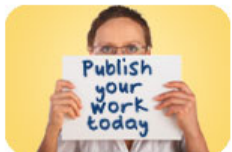
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The full citation for this Observation is:
Jones, T. (2011). Histidine modification and monoamine oxidase activity. *PHILICA.COM Observation number 70*.

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1 Peer review [reviewer #47336] added 13th November, 2011 at 16:47:45

An interesting observation about histidine in MAO -A and -B.
On the other hand, the reversible change between the charged and uncharged states of the histidine residues acts like an electron transfer switch that is likely to be quite important for the mechanism of this enzyme's catalytic action.
Because the pH changes close to the histidine residue pKa's can be employed to modulate the reversible charging/discharging of the histidine residues a pH titration of histidine residues linked to the MOA's enzyme activities should provide useful insights into the MOA's enzymatic mechanisms.
Does the author have a more detailed plan of research with specific aims and tests?

Originality: 5, Importance: 5, Overall quality: 5

2 Author comment added 24th November, 2011 at 10:45:09

In response to reviewer #47336, we have no plans for further work, although some pH work has been done.
Variations in activity and inhibition with pH: the protonated amine is the substrate for monoamine oxidase, but uncharged inhibitors bind better. Jones TZ, Balsa D, Unzeta M, Ramsay RR. *J Neural Transm.* 2007;114(6):707-12. Epub 2007 Mar 31.

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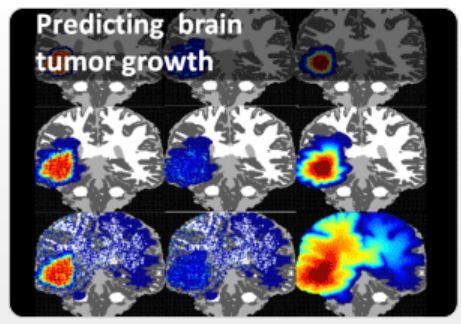
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- **L'article com a mesura de les coses**
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- **Open Acces vs Qualitat?**

Conclusions

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- **Congressos i revistes, reflexió conjunta**
- **Llengua i Ciència**
- **Divulgació vs investigació**

Referències

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<http://hdl.handle.net/10760/18736>
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<http://www.tdx.cat/handle/10803/3158;jsessionid=7AD923DD1C780AEE1F451431552642EA.tdx2>

Investigues o publiques?

Gràcies
per la seva atenció!!!!

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