

5è Premi Ramon Turró, Edició 2022
(publicacions dels anys 1994-1995)



L'edició 2022 del Premi Ramon Turró va ser atorgada a la **doctora Guadalupe Mengod**, de l'Institut d'Investigacions Biomèdiques de Barcelona (IIBB, CSIC), com a autora principal de l'article

Pompeiano, M.; Palacios, J. M.; Mengod, G. (1994). «Distribution of the Serotonin 5-HT₂ Receptor Family Messenger-RNAs - Comparison Between 5-HT_{2A} and 5-HT_{2C} Receptors». *Molecular Brain Research*, núm. 23, p. 163-178.

En els vint-i-cinc anys posteriors a la seva publicació fou citat 684 vegades.



Molecular Brain Research
Volume 23, Issues 1-2, April 1994, Pages 163-178



Research report

Distribution of the serotonin 5-HT₂ receptor family mRNAs: comparison between 5-HT_{2A} and 5-HT_{2C} receptors

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Accepted 2 November 1993, Available online 18 March 2003.

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[https://doi.org/10.1016/0169-328X\(94\)90223-2](https://doi.org/10.1016/0169-328X(94)90223-2)

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Els tres articles més citats, publicats entre els anys 1994 i 1995 i que complien els requisits del premi Ramon Turró, van ser:

<p>Pompeiano, M.; Palacios, J. M.; Mengod, G. (1994)</p> <p>Distribution of the Serotonin 5-HT₂ Receptor Family Messenger-RNAs - Comparison Between 5-HT_{2A} and 5-HT_{2C} Receptors</p> <p><i>Molecular Brain Research</i>, núm. 23, p. 163-178</p> <p>Department of Neurochemistry, CSIC, Barcelona, Spain.</p>	<p>684 citacions</p>
<p>Artigas, F.; Perez, V.; Alvarez, E. (1994)</p> <p>Pindolol induces a rapid improvement of depressed-patients treated with Serotonin reuptake inhibitors</p> <p><i>Archives of General Psychiatry</i>, núm. 51, p. 248-251</p> <p>Department of Neurochemistry, CSIC, Barcelona, Spain.</p>	<p>497 citacions</p>
<p>Walchsolimena, C.; Blasi, J.; Edelman, L.; Chapman, E. R.; Vonmollard, G. F.; Jahn, R. (1995)</p> <p>The t-SNARES syntaxin-1 and SNAP-25 are present on organelles that participate in synaptic vesicle recycling</p> <p><i>Journal Cell Biology</i>, núm. 128, p. 637-645</p> <p>Department of Cell Biology, School of Medicine, University of Barcelona, Spain; Department of Cell Biology, School of Medicine, Yale University, New Haven USA</p>	<p>307 citacions</p>

L'entrega del 5è Premi Ramon Turró a la doctora Guadalupe Mengod es va fer durant el XII Simposi de Neurobiologia Experimental de la Societat Catalana de Biologia (7-8 de juny de 2022).



La doctora Guadalupe Mengod imparteix la conferència d'acceptació del 5è Premi Ramon Turró durant el XII Simposi de Neurobiologia Experimental de la Societat Catalana de Biologia



L.4. UNA HISTÒRIA PERSONAL DELS RECEPTORS DE SEROTONINA A BARCELONA

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This work "Distribution of the serotonin 5-HT₂ receptor family mRNAs: comparison between 5-HT_{2A} and 5-HT_{2C} receptors. *Mol Brain Res* 23, 163-178 (1994) by Pompeiano, M., Palacios, J.M., Mengod, G." refers to the visualization of the cells in the rat brain that express the mRNA coding for 5HT_{2A} and 5HT_{2C} receptors. It is part of a series of papers published by our two groups, initially at Sandoz AG in Basel Switzerland and later here in Barcelona at the CID of CSIC. It was natural that this began at Sandoz, in laboratories close to the place where Albert Hofmann synthesized and personally tested LSD in 1938. In the late 1970's the interest in serotonergic drugs was reflected in the discovery of several subtypes of 5HT receptors using radioligand binding techniques, that in the middle of the 1980's was expanded by the cloning of up to 14 5HT receptors genes. Our interest was the study of the distribution of these receptors in the mammalian brain that was carried out using two basic techniques: receptor autoradiography and in situ hybridization. This was made possible first by the cDNAs cloning for the 5HT_{2C} (at the time 1C) by Julius et al 1988 followed by that of 5HT_{2A} by Pritchett et al 1988. Our results illustrated the separate nature of these two receptors, emphasized by their different brain distribution.

Which was the interest on these two receptors at that time? The search for new treatments for schizophrenia has been an important challenge since the discovery of Chlorpromazine. The serotonergic component of neuroleptic action was used in the first classification into 5HT₁/5HT₂ receptors, and later assigned in the "atypical neuroleptics" to 5HT₂ receptors. 5HT₂ receptors are still the target of intense investigation in the search of new psychedelics for the treatment of depression and other mental disorders.

Resum de la conferència d'acceptació del 5è Premi Ramon Turró de la doctora Mengod



La doctora Guadalupe Mengod rep el 5è Premi Ramon Turró de mans dels doctors Carles Saura i Josep Saura, de la Secció de Neurobiologia Experimental de la Societat Catalana de Biologia