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Las revistas científicas profesionales en España

una inversión urgente y necesaria

Resumen:

1. Importancia del periodismo científico
2. Indicadores bibliométricos
3. Problemas de la edición de revistas científicas de calidad en España
4. El reto de la publicación electrónica
5. Sugerencias de mejora



Artículos y secciones semanales en periódicos de noticias

(*El País, El Mundo, ABC, etc.*)

Publicaciones especializadas

Sensacionalistas

(*Muy Interesante, Quo, etc.*)

Serias

(*Investigación y Ciencia, Mundo Científico etc.*)

de bajo nivel

Revistas de colegios profesionales, *newsletters* de sociedades científicas, etc.

de alto nivel

Revistas generales (*Nature, Science, etc.*)

Revistas especializadas por áreas de conocimiento, por temas, por técnicas, etc.

1. Importancia del Periodismo Científico:

*“En el terreno médico, científico o tecnológico, el **producto final** de la mayor parte de la actividad investigadora no es un informe, una monografía o, incluso, una patente sino un **artículo en una revista profesional de calidad.**”*

2. Indicadores Bibliométricos

ÍNDICE DE INMEDIATEZ (ISI)

mide la **rapidez** con que se cita un artículo en la bibliografía profesional.

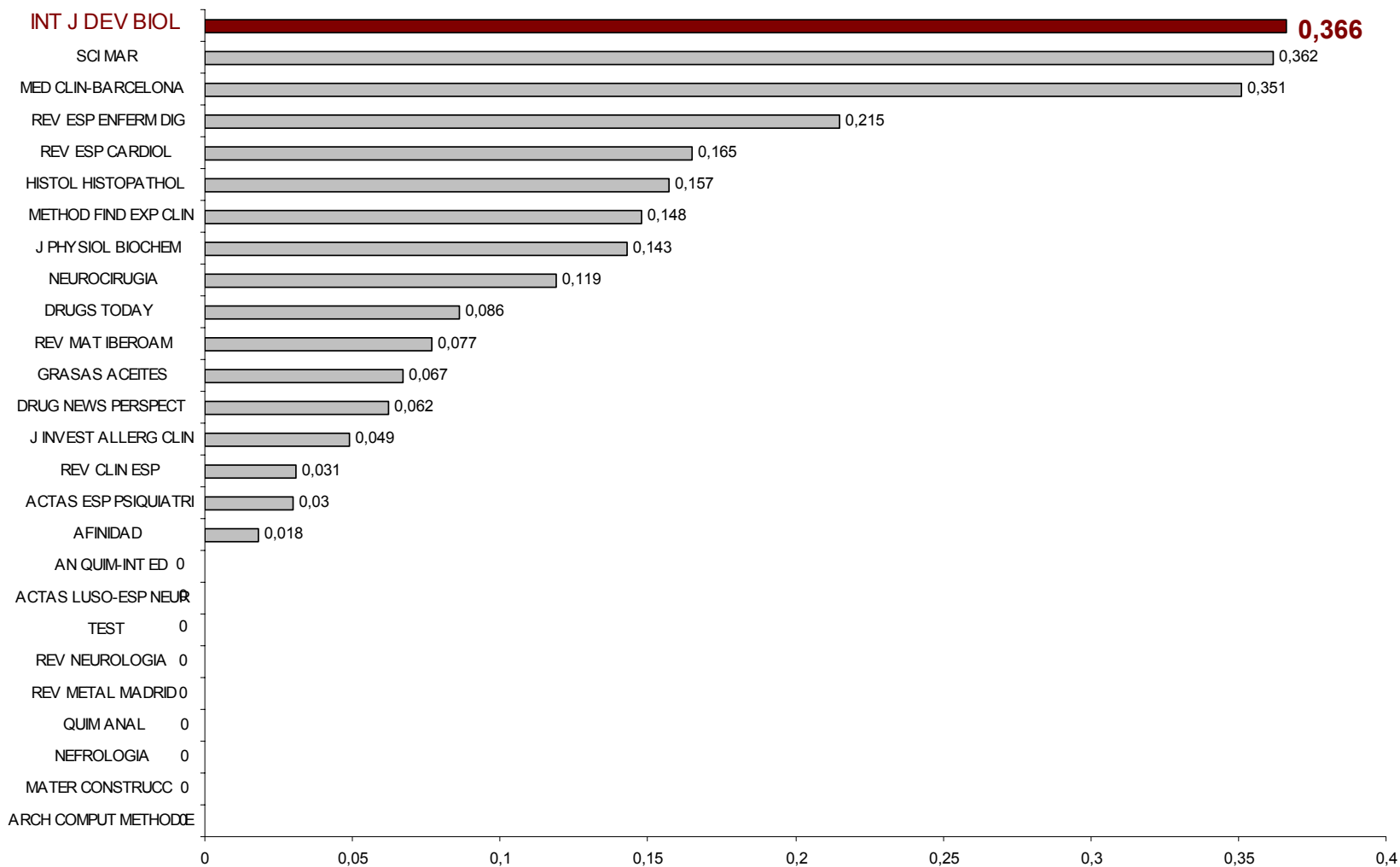
Formula:

Nº citas durante un año

Nº artículos publicados en ese año

Clasificación de las revistas científicas españolas por Índice de Inmediatez

(Fuente: 1999 Science Citation Index/ Journal Citation Reports, Institute for Scientific Information, Philadelphia, USA)



FACTOR DE IMPACTO (ISI)

mide la frecuencia con que se citan los artículos de una revista

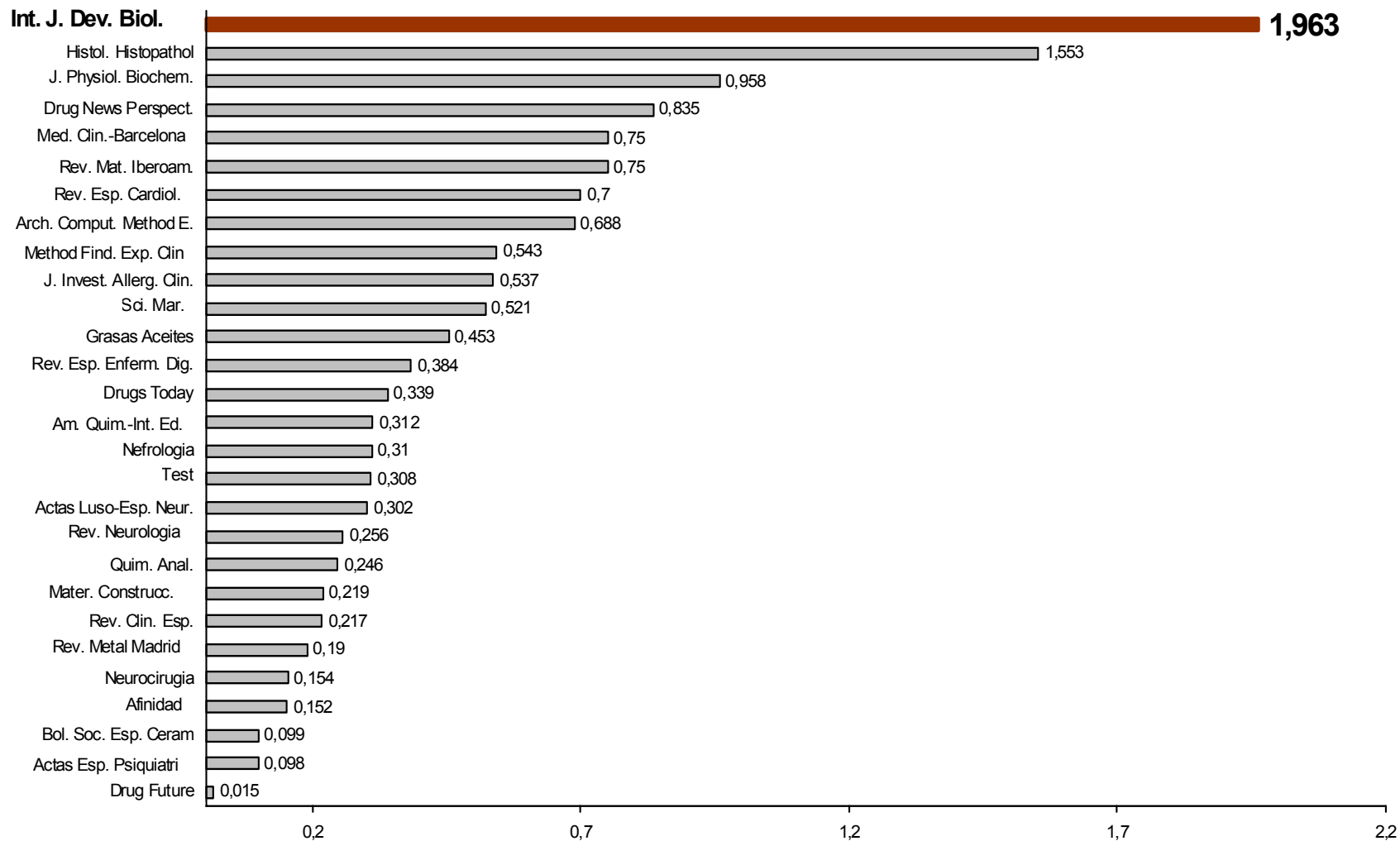
Formula:

$$\frac{\text{Nº citas en dos años sucesivos}}{\text{Nº artículos publicados en esos años}}$$

Ejemplo: El FI (2000) de una revista se calcula en base al número de citas durante el 2000 a artículos publicados durante 1998 y 1999

Clasificación de las revistas científicas españolas por Factor de Impacto

(Fuente: 2000 Science Citation Index / Journal Citation Reports, Institute for Scientific Information, Philadelphia, USA)



PRESTIGE FACTOR (Prestigix)

mide la frecuencia con que se citan los artículos de una revista PERO excluyendo los “Reviews”

El IF no mide el valor real de las revistas que publican los avances científicos. Las revistas que tienen un alto porcentaje de revisiones inflan artificialmente su IF. El Prestige Factor subsana este defecto.

Int. J. Dev. Biol.

Rev. Esp. Cardiol.

Sci. Mar.

Rev. Esp. Enferm. Dig.

Med. Clin-Barcelona

J. Physiol. Biochem

Method Find. Exp. Clin.

Histol. Histopathol

. Invest. Allerg. Clin.

Drugs Today

Nefrologia

Grasas Aceites

Rev. Clin. Esp.

Rev. Metal Madrid

Soc. Esp. Ceram. Vid.

Rev. Neurologia

Drug Future

Drug Future

25,81

25,79

24,67

23,48

17,78

15,4

15,08

13,9

10,48

10,38

9,17

6,26

3,63

3,49

3,31

0,41

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SEMIVIDA O SEMIPERODO (ISI)

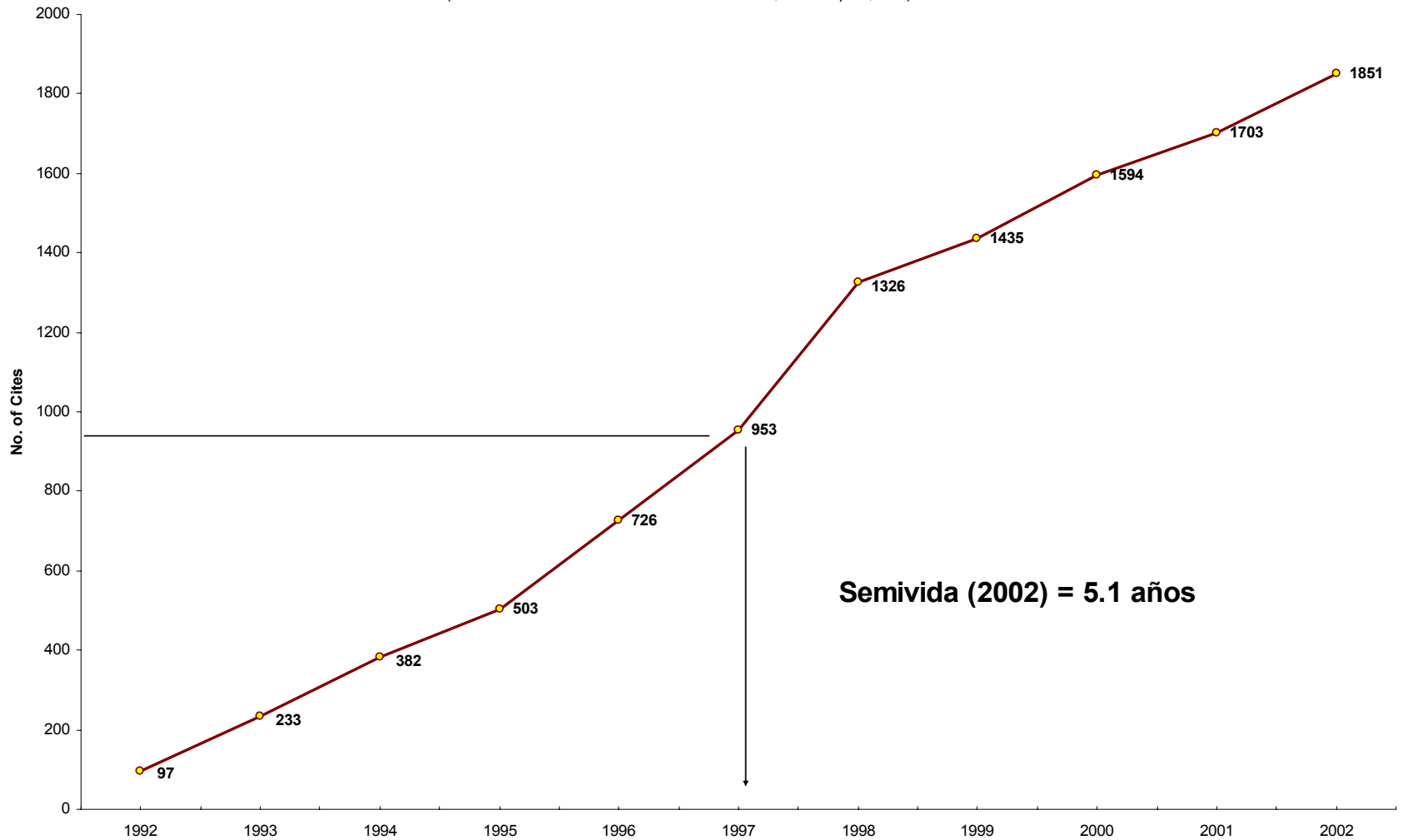
(“citing half-life”)

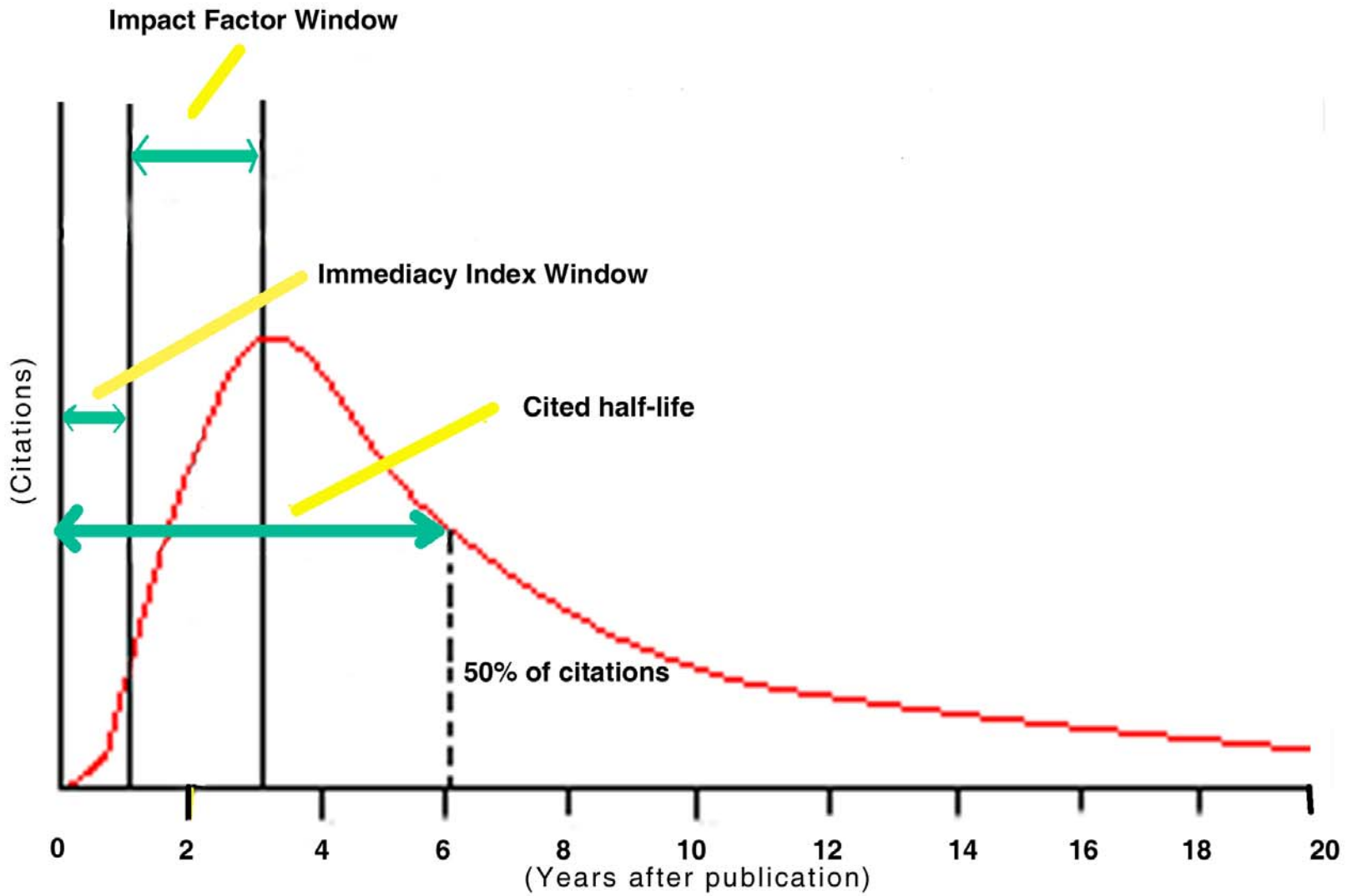
mide el tiempo en años durante el cual se ha citado la mitad de la literatura activa circulante de una revista desde el último año

Formula: **Mediana** de la distribución del número anual de citas a una publicación

Evolución del número anual de citas a la revista
The International Journal of Developmental Biology

(Fuente: 2002 Institute for Scientific Information, Philadelphia, USA)





3. Problemas de la edición de revistas científicas de calidad en España

A. Masoquismo lingüístico

“estúpido suicidio colectivo” (Pío del Río Horteiga, 1937)

“cipayos al servicio de imperialismo anglo-norteamericano”

(José M. López-Piñero y M. Luz Terrada, 1991)

“perversión idiomática y papanatismo” (E. Uriarte, 1996)

Consecuencias de esta mentalidad:

1. Revistas científicas españolas de baja calidad
2. Exclusión de revistas prestigiosas de repertorios y bancos de datos españoles

■ Razones fundamentales para la publicación de ciencia en inglés actualmente:

- Imprescindible para el “peer-review system”
(control de calidad científica por revisores anónimos).
- Necesario para la difusión rápida y internacional del conocimiento.

Inglés → calidad científica contrastable

El español solo podrá empezar a ser un lenguaje científico universal cuando España y los países hispanohablantes publiquen un suficiente número de revistas científicas de calidad editadas en inglés.

Si no tenemos una industria nacional importante y cuotas adecuadas de mercado, España no pasará de ser un país consumidor pasivo de ciencia y el español seguirá sin ser una lengua científica aceptada.

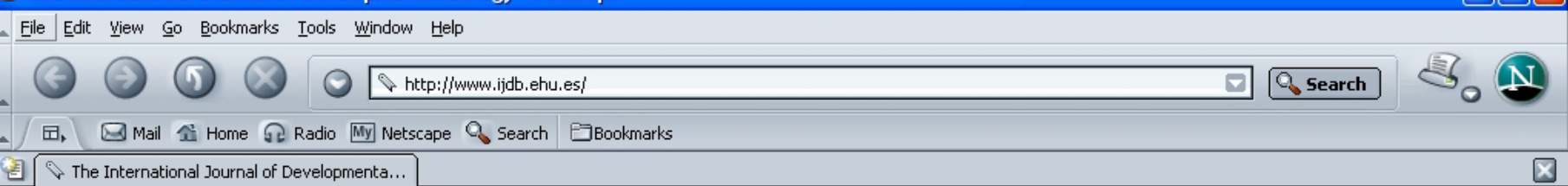
B. Falta de profesionalización de la edición científica



C. Ausencia de concienciación sobre el hecho de que una revista científica de calidad internacional, además de aumentar el prestigio del país y ahorrar gastos a los investigadores, puede ser un producto exportable y generar beneficios económicos al sistema de ciencia y tecnología (p.ej. Cold Spring Harbor Laboratory Press)

4. El Reto de la Edición Electrónica

**A. Diseño de páginas web atractivas,
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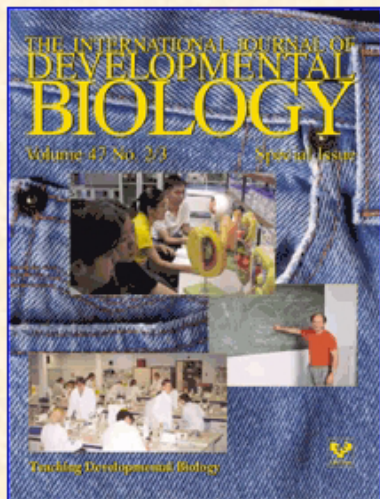
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Interested in amphibian embryo immunocytochemistry?

see article by Thomas Kurth



Volume 47, Number 5, June 2003

Expression (in blue) of the receptor protein tyrosine phosphatase $RPTP\mu$ in resistance arteries of a murine uterus visualized through lacZ staining of tissue obtained from mice in which the $RPTP\mu$ gene was replaced with the β -galactosidase marker gene by homologous recombination. For further details, see the article by Koop *et al.* in the present issue, pp. 345-354.

Review

Involvement of endothelin receptors in normal and pathological development of neural crest cells

by Patrick Pla and Lionel Larue

[Abstract](#) [Full text](#)

Original Articles

Ca^{2+} -independent protein kinase C signalling in mouse eggs during the early phases of fertilization

by Carla Tatone, Simona Della Monache, Antonella Francione, Luisa Gioia, Barbara Barboni and Rosella Colonna

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***Dlx5* regulates chondrocyte differentiation at multiples stages**

by Andrew J. Bendall, Gezhi Hu, Giovanni Levi and Cory Abate-Shen

[Abstract](#) [Full text](#)

Int. J. Dev. Biol. 47: 315-325 (2003)

©UBC Press

Review

Key words: Glial cells, neurons, melanocyte, melanoblast, melanoma

Involvement of endothelin receptors in normal and pathological development of neural crest cells

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Orsay Cedex, France

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SUMMARY Endothelin receptors (Ednr) are G-protein-coupled receptors with seven membrane-spanning domains and are involved in various physiological processes in adults. We review here the function of these receptors during the development and transformation of the neural crest cell-specific lineage. Neural crest cells (NCC) may be classified according to their location in the body. In particular, there are clear differences between the neural crest cells arising from the cephalic part of the embryo and those arising from the vagal and truncal part. The development of cranial and cardiac NCC requires the endothelin-1/Ednra system to be fully functional whereas the development of more posterior NCC requires full functionality of the endothelin-3/Ednrb system. Mutations have been found in the



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Immunocytochemistry of the Amphibian Embryo 375

proves antibody diffusion in the embryo. The fixation/permeabilization procedure is followed by incubation in solutions containing primary and secondary antibodies, postfixation, defaturation and embedding in Technovit 7100. Double immunofluorescent stainings are performed by simultaneous incubation with the different primary and secondary antibodies, respectively (Fig. 1 E,F). Dependent on the size, density, and composition of the embryos incubation times for antibodies vary from overnight to 3 days. These long incubation times are needed for complete antibody penetration. In particular, fixation in formaldehyde solutions results in prolonged incubation times because of the slow antibody diffusion in the cross-linked tissue, even after the subsequent permeabilization with methanol/DMSO.

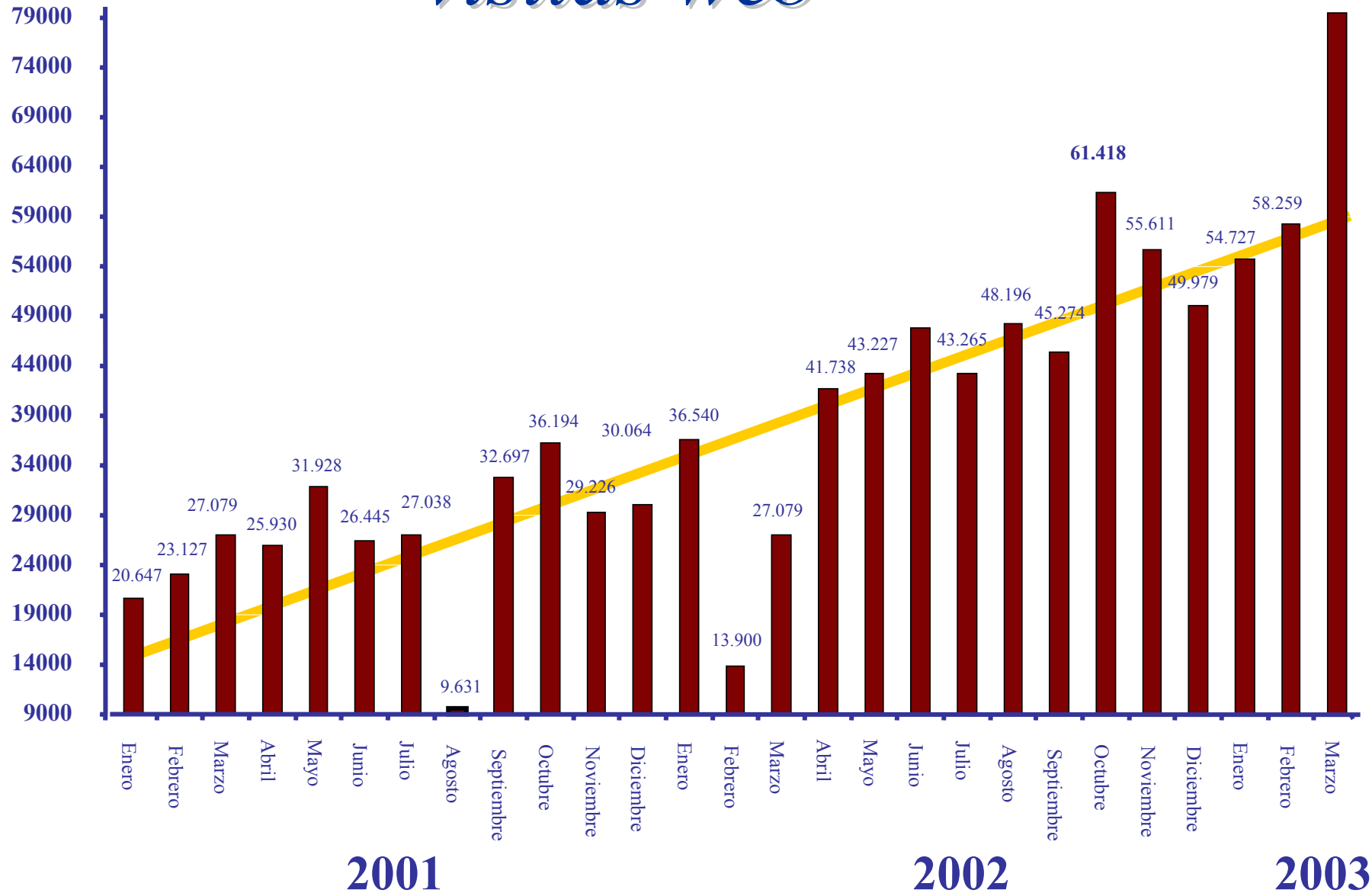
One major advantage of the procedure is that the serial section analysis of a whole mount stained embryo is possible without the need to stain sections independently as it would be the case for cryo- or paraffin-sections (Fagotto, 1999). Further, sections can be cut from 5 µm down to 1 µm which yields results in good resolution at the light microscopical level (Fig. 1 D,E,F). Fluorescence is stable in the plastic blocks for more than 2 years, and in the sections for about half a year. Plastic sections can additionally be counterstained with DAPI to visualize nuclei (see Fig. 1 E,F).

An alternative option for obtaining appropriate resolution is the inspection of stained whole mounts with a confocal laser scanning microscope. However, due to the limited penetration of the laser beam into the tissue only peripheral aspects of large objects such as whole embryos or even thick vibratome sections can be analysed at high resolution (not shown), a problem which can be partially circumvented by clearing the embryos before examination (Kokor et al., 2000; Matsuda and DeSimone, 2001). However, an assess-

Fig. 1. Preembedding staining of whole embryos for light and electron microscopy. (A) Schematic summary of the experimental procedures. (B,C) Localization of the tight junction marker cingulin in the dorsal animal epithelium of a *Xenopus* blastula using an anti-cingulin antibody (C22) and the Alexa488/enhancement method. In the light microscope (B) dark spots (arrows) or strands (black line) demarcate the tight junctions at the borders of the apical and basolateral membrane domains. (C) Ultrastructural localization of cingulin tight junctions (B) are indicated by arrows. The apical (ap) and basolateral (bl) membrane domains are indicated with red and green lines, respectively. One tight junction is enlarged in the insert. nu, nucleus. (D) Immunofluorescent staining of cell-cell adhesion molecules (cadherins) in a late *Xenopus* gastrula using anti-cadherin (P14) and Cy3 coupled secondary antibodies. The section is oriented perpendicular to the animal-vegetal axis and through the marginal zone. As a result, the invagination of the archenteron on the dorsal side is visible as a semi-circle. ac, dorsal; do, dorsal lip; ec, ectoderm; en, endoderm; l, lateral mes. mesoderm; V, ventral. (E) Triple fluorescent micrograph of a sagittal section through a stage 24 anolite embryo displaying the two-layered epidermis (epi) and somites (so). Red indicates β -catenin (rabbit anti- β -catenin (P14)), Cy3 coupled secondary antibody; green indicates actin (mouse monoclonal anti-Actin, Alexa488 coupled secondary antibody); yellow indicates colocalization, and blue indicates nuclear DNA (DAPI). (F) Triple fluorescent micrograph of a *Xenopus* gastrula sectioned through the marginal zone. The green fluorescence marks nucleoplasmic (mouse monoclonal anti-nucleoplasmic (p-75A8), Alexa488 coupled secondary antibody); apronin is used in a variety of nuclear functions including e.g. nucleosome assembly. Nucleoplasmic flows into the cytoplasm when the nuclear envelope breaks down during mitosis. Cell borders are stained with the antibody against β -catenin (red, P14), Cy3 coupled secondary antibody. Nuclei are counterstained with DAPI (blue). Bars correspond to 50 µm in (B,E,F), 5 µm in (C) and 200 µm in (D).

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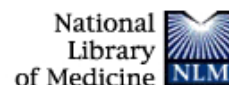
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Analysis of the molecular cascade responsible for mesodermal limb chondrogenesis: Sox genes and BMP signaling.
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Programmed cell death in the developing limb.
Int J Dev Biol. 2002;46(7):871-6. Review.
PMID: 12165622 [PubMed - indexed for MEDLINE]

☐ 3: [Montero JA, Giron B, Arrechdera H, Cheng YC, Scotting P, Chimal-Monroy J, Garcia-Porrero JA, Hurle JM.](#) Related Articles, Links

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☐ 4: [Chimal-Monroy J, Montero JA, Ganan Y, Macias D, Garcia-Porrero JA, Hurle JM.](#) Related Articles, Links

Comparative analysis of the expression and regulation of Wnt5a, Fz4, and Frzb1 during digit formation and in micromass cultures.
Dev Dyn. 2002 Jul;224(3):314-20.
PMID: 12112461 [PubMed - indexed for MEDLINE]

☐ 5: [Montero JA, Ganan Y, Macias D, Rodriguez-Leon J, Sanz-Ezquerro JJ, Merino R, Chimal-Monroy J, Nieto MA, Hurle JM.](#) Related Articles, Links

Role of FGFs in the control of programmed cell death during limb development

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Programmed cell death in the developing limb.

Zuzarte-Luis V, Hurle JM.

Departamento de Anatomía y Biología Celular, Facultad de Medicina, Universidad de Cantabria, Santander, Spain.

The sculpturing of shape in the developing limb together with the regression of the tail in anuran tadpoles constitute, perhaps, the most paradigmatic processes of programmed cell death. The study of these model systems has been of fundamental importance to support the idea that cell death is a physiological behavior of cells in multicellular organisms. Furthermore, different experimental approaches, including comparative analyses of the pattern of cell death in different avian species (i.e. chick interdigits versus duck interdigital webs) and in chick mutants with different limb phenotypes, provided the first evidence for the occurrence of a genetic program underlying the control of cell death. Two well known research groups in the field of limb development, the USA group headed first by John Saunders and next by John Fallon and the group of Donald Ede and Richard Hinchliffe in the U.K. provided a remarkable contribution to this topic. In spite of the historical importance of the developing limb in establishing the concept of programmed cell death, this model system of tissue regression has been largely neglected in recent studies devoted to the analysis of the molecular control of self-induced cell death (apoptosis). However, a considerable amount of information concerning this topic has been obtained in the last few years. Here we will review current information on the control of limb programmed cell death in an attempt to stimulate further molecular studies of this process of tissue regression.

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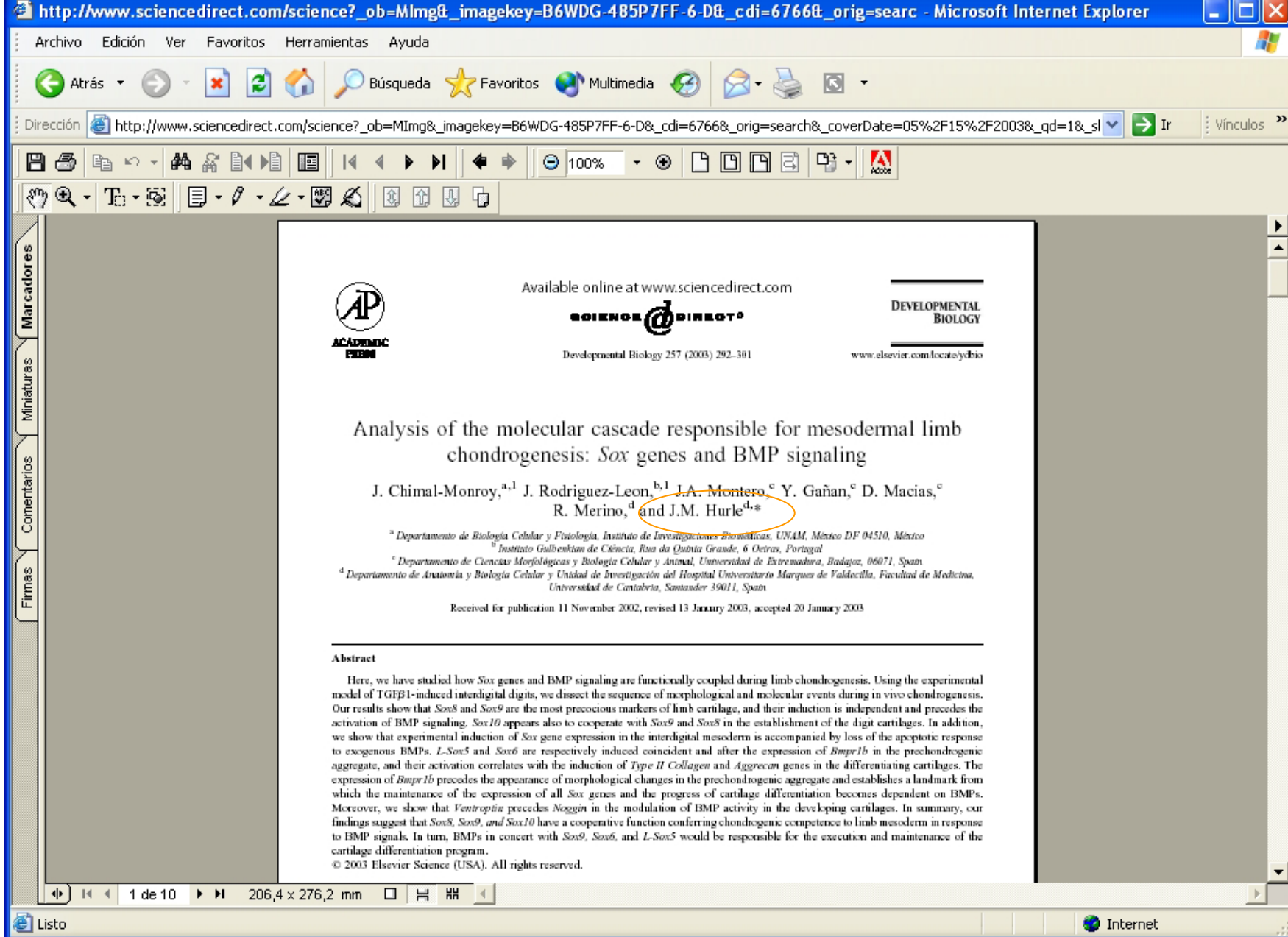
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grant from Ministerio de Ciencia e Tecnología de Portugal (Fundação para a Ciência e a Tecnologia), and J.A.M. by a grant from the Junta de Extremadura (Consejería de Educación y Juventud/ Fondo Social Europeo).

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Gene expression pattern

SOX8 expression during chick embryogenesis

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Abstract

We have isolated the *SOX8* gene from the chicken embryo. This gene shows a high degree of sequence homology to *SOX9* and *SOX10*. Detailed analysis of *SOX8* expression by whole-mount in situ shows a dynamic and restricted expression pattern during chick development. *SOX8* is expressed in the somitic derivative, the dermomyotome, the developing heart, pancreas, enteric neurone system, limb and the neural tube. This is the first detailed expression analysis of *SOX8* in any species © 2000 Elsevier Science Ireland Ltd. All rights reserved.

Keywords: SOX genes; SOX8; Embryogenesis; Dermomyotome; Muscle development; Enteric neurones; Pancreas; Neural tube; Limb development; Chicken

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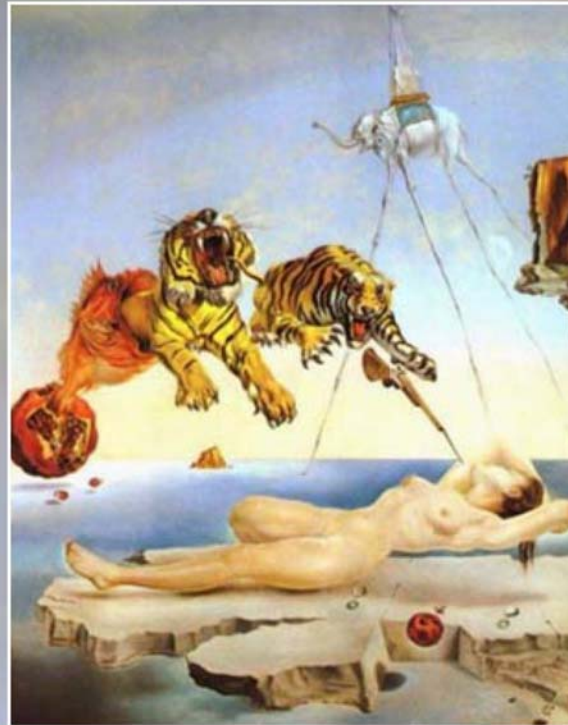
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