



# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

*An International Peer-Reviewed Journal in the Field of Basic Medicine*

[www.ejbms.org](http://www.ejbms.org)

ISSN: 2146-5665

## Aims and Scope

EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES is an English multidisciplinary peer-reviewed medical journal publishing articles in the fields of BASIC MEDICAL SCIENCES. EUROPEAN JOURNAL OF BASIC MEDICAL SCIENCES is published quarterly (January, April, July and October) by the Society of Health Sciences Research, Turkey.

EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES encourages submissions from all authors throughout the world. Manuscripts are judged by two experts solely on the basis of their contribution of original data, ideas and their presentation. All manuscripts must comply with Instructions to Authors. The following articles will be considered for publication: editorials, original and review articles, brief reports, letters to the editor, and book reviews.

Submitted manuscripts must not have been published, accepted for publication or be under consideration elsewhere. Investigation on human subjects should conform to the guidelines noted in the World Health Organization Chronicle 1976; 30: 360-362.

All articles will be critically reviewed by the editor and members of the editorial or advisory board of the journal within 2 months, but longer delays are sometimes unavoidable. Full details may be found in the section of Instructions to Authors at the end of this issue.

The free-full text of the journal is available from online system. Please visit the journal website ([www.ejbms.org](http://www.ejbms.org)).



# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

*An International Peer-Reviewed Journal in the Field of Basic Medicine*

[www.ejbms.org](http://www.ejbms.org)

## INSTRUCTION TO AUTHORS

MANUSCRIPTS are received with the understanding that they are submitted solely to THE EUROPEAN JOURNAL OF BASIC MEDICAL SCIENCES®, that upon submission, they become the property of the Publisher, that the work has not been previously published, and that the data in the manuscript have been reviewed by all authors, who agree with the analysis of the data and the conclusions reached in the manuscript. The Publisher reserves copyright and renewal on all published material, and such material may not be reproduced without the written permission of the Publisher. Statements in articles are the responsibility of the authors. Only papers in English and Turkish will be considered for publication.

**ADDRESS MANUSCRIPTS TO:** Manuscripts should be submitted online at [www.ejbms.org](http://www.ejbms.org).

Please include the corresponding author's e-mail, phone and fax number. The cover letter should state the significance and uniqueness of the work in the authors' view. Several names and addresses of nonlocal experts may be suggested who, in the authors' view, could provide objective and informed reviews of their work. The names of investigators considered unlikely by the authors to give nonbiased reviews of their work also may be submitted. This request is honored.

Arrange the paper as follows: (1) title page, which should include the title, the full names and academic degrees of the authors, and the institution and city and state or city and country from which the work originated; (2) second title page, with only the title of the article (page not numbered); (3) abstract; (4) text; (5) acknowledgment; (6) references; (7) figure legends; (8) Number the title page as 1, abstract page as 2, and so forth. (Leave the second title page) Type on 22 X28 cm (8.5 X11 inch) paper, on 1 side only of each sheet, double-spaced (including references) with at least 25-mm (1-inch) margins.

The second title page, which omits the names and institutions of authors, gives the Editor in Chief the option of acquiring blinded or nonblinded reviews.

References to the institution in the text or to the author's previous work in the Reference section must be deleted or written in a manner that prevents identification of authors and institution. Label figures with the manuscript title rather than the authors' names so that blinded reviews can be solicited. Authors should state which type of review they wish in the cover letter.

**TITLE PAGE AND ABSTRACT:** For the complete title page, include the full first or middle and last names of all authors. List the institution and address from which the work originated, and provide information about grant support if necessary. If work described is supported by a grant from a pharmaceutical company, that fact should be stated on the title page. Add at the bottom the phrase, "Address for reprints:" followed by full name and address with zip code. Add a 2- to 6-word running head. Limit the abstract to 250 words. List 3 to 6 key words for subject indexing at the end of the abstract or Brief Communication.

**STYLE:** Use appropriate subheadings throughout the body of the text, such as Methods, Results, and Discussion. Tables, figures, and references should be mentioned in numerical order throughout manuscript. Abbreviations are permitted, but no more than 3 per manuscript, and then they must be used on every page of the manuscript after they are initially spelled out (followed by the abbreviation) in both abstract and introduction. Abbreviations are usually limited to terms in the manuscript's title. Use generic names of drugs. Do not spell out any number, including those less than 10, except when used for opening a sentence, but try not to begin sentences with numbers. Use symbols for less than (<), greater than (>) and percent (%). Indent paragraphs except the first one in both abstract and introduction. Consult the Uniform Requirements for Manuscripts Submitted to Biomedical Journals, published in *N Engl J Med* 1991; 324: 424-428.

**TRADE NAMES** Non-proprietary (generic) names of products should be used. If a brand name for a drug is used, the British or International non-proprietary



# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

*An International Peer-Reviewed Journal in the Field of Basic Medicine*

[www.ejbms.org](http://www.ejbms.org)

(approved) name should be given. The source of any new or experimental preparation should also be given. **REFERENCES:** References should be limited to those relating directly to the content of the paper. List all authors, year, volume, and inclusive pages for all journal references, and specific page numbers for all book references as shown below. Do not use periods after authors' initials or after abbreviations for titles of journals. Check Index Medicus or N Engl J Med 1991; 324: 424-8 as cited above for journal titles and abbreviations. Personal communications and unpublished observations do not constitute references, but may be mentioned within the text. Please note that all authors should be listed when six or less; when seven or more, list only the first three and add et al. Please do not use the footnote or endnote functions in your word processing program.

**Journal:** Vikse BE, Aasard K, Bostad L, Iversen BM. Clinical prognostic factors in biopsy-proven benign nephrosclerosis. *Nephrol Dial Transplant* 2003; 18: 517-23.

**Chapter in Book:** Davison AM, Cameron JS, Grünfeld JP, Kerr DNS, Ritz E, Winerals CG. Oxford Textbook of Clinical Nephrology. In Williams G, ed. *Mesangiocapillary glomerulonephritis*. New York: Oxford University Press, 1998: 591-613.

**Book:** Danovitch GM. *Handbook of Kidney Transplantation*. Boston: Little, Brown and Company (Inc.), 1996: 323-8

**FIGURES:** Patients shown in photographs should have their identity concealed or should have given their written consent to publication. Submit written permission from the publisher and author to reproduce any previously published figures. Limit figures to the number necessary to present the message clearly. Do not use 3-D features and unnecessary gray shadings on simple bar charts. Identify at the end of each legend and in alphabetical order all abbreviations in the figure. The cost of color reproduction must be paid by the author.

**TABLES:** Place each table on a separate page, typed double-spaced. Number each table in Arabic numerals (Table 1, 2, etc.) and title each table. Identify in alphabetical order at the bottom of the table all abbreviations used. When tabulating numbers of patients, use no more than 2 lines, preferably only 1 line, per patient. Use a plus sign (+) to indicate "positive" or "present," a zero (0) for "negative" or "absent," and a dash (-) for "no information available" or "not done." Do not use "yes" or "no" or "none." Footnote symbols must appear in this order: \*, \*\*, #, ¶, †, ‡, §, ||, ¶ etc.

**BRIEF COMMUNICATIONS:** These should be limited to no more than 6 text pages (those before the references but including the title page) and 20 references. An abstract is not required. Subheadings are not used. Provide a summary sentence at the end.

**READERS' COMMENTS:** The author who submits a "letter" should provide a cover letter on his/her own stationery to the Editor in Chief stating why the letter should be published. The letter (as well as references) should be typed, double-spaced, on a separate sheet of plain white paper and limited, with few exceptions, to 2 pages. Submit the original and 2 copies. A title for the letter should be provided at the top of the page. At the end of the letter, the writer's full name, city, state and country should be provided. The author's title and institution should not be included. A letter concerning a particular article in the *Journal* must be received within 3 months of the article's publication.

**REPRINTS:** Price schedules and order cards for reprints are mailed to the author upon publication of the article. Individual reprints must be obtained through the author.

**PERMISSIONS:** All inquiries regarding copyright material from this publication should be directed to Health Sciences Research Society

# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

*An International Peer-Reviewed Journal in the Field of Basic Medicine*



[www.ejbms.org](http://www.ejbms.org)

## Information for Subscribers

Subscription for 4 issues (one year)

Locations	Institutional Price	Individual Price
All countries except Europe and Turkey	USD 80.00	USD 40.00
European countries	EUR 60.00	EUR 30.00
Turkey	TL 100	TL 50

Single copy of the journal is EUR 15.00  
All prices include postage and handling.

## Subscription Address

Subscription Department  
Kürşat Uzun, M.D.  
European Journal of Basic Medical Sciences  
N.E.Ü. Meram Tıp Fak. Göğüs Hast. AD,  
Konya, Turkey  
E-mail: [uzunkur@yahoo.com](mailto:uzunkur@yahoo.com)

**Bank:** TC.Vakıflar Bankası, Konya Tıp Şubesi, Türkiye (Turkey Vakıfbank)  
Branch: Konya Medical Faculty Branch, Turkey  
Account Name: Sağlık Bilimleri Araştırmaları Derneği)

## Account Numbers:

IBAN NO: 110001500158007290483757  
Hesap No: 00158007290483757

## Postmaster:

Please send change of address to the subscription department.

## Business Correspondence and Advertisement Booking

All matters relating to general enquiries and advertisement booking should be addressed to:

Advertisement Department  
Haluk Dülger, M.D.  
European Journal of Basic Medical Sciences  
N.E.Ü. Meram Tıp Fakültesi  
Biyokimya AD, Konya, Turkey  
E-mail: [halukdulger@yahoo.com](mailto:halukdulger@yahoo.com)

## Copyright and Photocopying

All reproduction, adaptation, translation rights, even partly, is strictly forbidden for all countries. Copyright © 2011 by the Health Sciences Research society, Konya, Turkey. In order to photocopy any work from this publication, you or your organization must obtain permission from the following organization, which has been delegated for copyright for clearance by the copyright owner of this publication.

Health Sciences Research Society  
Kürşat Uzun, M.D.  
European Journal of Basic Medical Sciences  
N.E.Ü. Meram Tıp Fak. Göğüs Hast. AD,  
Konya, Turkey  
E-mail: [uzunkur@selcuk.edu.tr](mailto:uzunkur@selcuk.edu.tr)

Printed by Selcuk University Press.

Copyright © 2011, Health Sciences Research Society.

All rights reserved.

ISSN: 2146-5665

# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

*An International Peer-Reviewed Journal in the Field of Basic Medicine*

[www.ejbms.org](http://www.ejbms.org)

## EDITOR-IN-CHIEF

Haluk Dülger

## ASSOCIATE EDITORS

Hasan Serdar Gergerlioğlu Kürşat Uzun Halil Kıyıcı

## EDITORIAL BOARD

### Anatomy

Amir Afshin Khaki, Iran  
Osman Sulak, Turkey  
İsmihan İlknur Uysal, Turkey  
Kağan Üçok, Turkey  
İsmail Zararsız, Turkey

### Biochemistry

Haluk Dülger, Turkey  
Aysel Kıyıcı, Turkey  
Recep Sütçü, Turkey  
Aysun Toker, Turkey  
Hüseyin Vural, Turkey

### Biophysics

Riad Al-kasasbeh, Jordan  
Şefik Dursun, Turkey  
Metin Tulgar, Turkey

### Genetics

Beyhan Cengiz, Turkey  
Esra Gündüz, Turkey  
Mehmet Gündüz, Turkey  
Ömer Faruk Hatipoğlu, Japan  
Nadir Kocak, Turkey  
Ercan Kurar, Turkey  
Davut Pehlivan, USA  
Kürşad Oğuz Yaykaşlı, Turkey

### Histology

Murat Aktan, Turkey  
Nurettin Cengiz, Turkey  
Ender Erdoğan, Turkey  
Alparslan Gökçimen, Turkey

### Medical Biology

H. Ramazan Yılmaz, Turkey

### Medical Education

Francesco Carelli, Italy  
Erol Gürpınar, Turkey  
Nazan Karaoğlu, Turkey  
Yeşim Yiğiter Şenol, Turkey  
Natalia Zarbailov, Moldova

### Microbiology and Immunology

Zübeyir Altuntaş, USA  
Zafer Çetinkaya, Turkey

### Pathology

Nurşadan Gergerlioğlu, Turkey  
Halil Kıyıcı, Turkey  
Süleyman Özen, Turkey  
Hatice Toy, Turkey

### Pharmacology

Harun Alp, Turkey  
Nurulloğlu Atalık, Turkey  
A Tuncay Demiryürek, Turkey  
Hanefi Özbek, Turkey  
Hasan Basri Ulusoy, Turkey

### Physiology

Cahit Bağcı, Turkey  
Muaz Belviranlı, Turkey  
Sinan Canan, Turkey  
Ebru Çetin, Turkey  
Nazmi Çetin, Turkey  
Hasan Erdoğan, Turkey  
Osman Genç, Turkey  
Hasan Serdar Gergerlioğlu, Turkey  
Hakkı Gökbek, Turkey  
Hakan Mollaoğlu, Turkey  
Fehmi Özgüner, Turkey  
Halil Taşkın, Turkey

### Statistical Editor

Said Bodur, Turkey

# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

*An International Peer-Reviewed Journal in the Field of Basic Medicine*

[www.ejbms.org](http://www.ejbms.org)

Eur J Basic Med Sci 2012;2(3)

## CONTENTS

### ORIGINAL ARTICLES

- Age Related Changes in Height and Shape of The Lumbar Intervertebral Disc 68  
*Ismail Malkoc, Sener Atif Aydinlioglu, Fatih Alper, Fatih Kaciroglu, Yasemin Yuksel, Ramazan Yuksel, Asli Kara, Senol Dane, Muhsin Toktas*
- Seroprevalance of Hepatitis B and Hepatitis C in Blood Donors in the Konya Region 74  
*Bahadır Feyzioğlu, Seval Gündem, Mehmet Özdemir, Rahim Kocabaş, Mahmut Baykan*
- Investigation of Pon 55 Gene Polymorphism Frequency in patients with Hyperlipidemia 79  
*Özlem Yuksel, Recep Sütcü, Ismail Hakkı Ersoy, Hikmet Orhan*

### BRIEF REPORT

- A Rare Variation of Internal Carotid Artery: Coiling 85  
*Musa Acar, Ahmet Salbacak, Mahinur Ulusoy, Ismail Zararsız, Mehmet Emin Sakarya, Serpil Acar*
- Splenic Artery Directly Originating From Abdominal Aorta (Hepatogastric Trunk) 88  
*Ibrahim Güler, M. Tuğrul Yılmaz, Orhan Özbek, A. Didem Aydın, K. Emre Özen, Osman Koç, Hakan Akıllı*

### REVIEW

- Matrix Metalloproteinases and Cancer 91  
*Müfide Öncel*

# EUROPEAN JOURNAL of BASIC MEDICAL SCIENCES

An International Peer-Reviewed Journal in the Field of Basic Medicine

www.ejbms.org

Eur J Basic Med Sci 2012;2(3)

## İÇİNDEKİLER

### ÖZGÜN ARAŞTIRMALAR

- Lumbal intervertebral disklerin yükseklik ve şekillerinde yaşa bağlı değişiklikler 68  
*Ismail Malkoc, Sener Atif Aydınlioglu, Fatih Alper, Fatih Kaciroglu, Yasemin Yuksel, Ramazan Yuksel, Asti Kara, Senol Dane, Muhsin Toktas*
- Konya Bölgesinde Kan Donörlerinde Hepatit B ve Hepatit C Seroprevalansı 74  
*Bahadır Feyzioğlu, Seval Gündem, Mehmet Özdemir, Rahim Kocabaş, Mahmut Baykan*
- Hiperlipidemili Hastalarda PON 55 Gen Polimorfizm Sıklığının Araştırılması 79  
*Özlem Yüksel, Recep Sütcü, İsmail Hakkı Ersoy, Hikmet Orhan*

### KISA RAPOR

- Arteria Carotis Interna'nın nadir görülen varyasyonu: spiral dönme 85  
*Musa Acar, Ahmet Salbacak, Mahinur Ulusoy, İsmail Zararsız, Mehmet Emin Sakarya, Serpil Acar*
- Aorta Abdominalis'ten Direkt Ayrılan Arteria Splenica (Truncus Hepatogastricus) 88  
*İbrahim Güler, M. Tuğrul Yılmaz, Orhan Özbek, A. Didem Aydın, K. Emre Özen, Osman Koç, Hakan Akıllı*

### DERLEME

- Matriks Metalloproteinazlar ve Kanser 91  
*Müfide Öncel*