



INTERNATIONAL JOURNAL OF MEDICAL BIOCHEMISTRY

YEAR 2019 VOLUME II ISSUE I

ORIGINALS

Plasma preptin levels in patients with type 2 diabetes mellitus
Kalayci M, et al.

Visfatin: A potential biomarker for the early diagnosis and monitoring of acute coronary syndrome
Guvenc Y, et al.

The impact of magnesium on glycemic regulation
Aksit M, et al.

An approach to screening for macroprolactinemia in all hyperprolactinemic sera
Nurlu Ayan N, et al.

Comparison of small-volume tubes and vacuum blood tubes for complete blood count
Unal K.

REVIEW

A promising novel biomarker for embryogenesis and carcinogenesis: S100P protein
Gormus U.



INTERNATIONAL JOURNAL OF MEDICAL BIOCHEMISTRY

ISSN 2587-2362

EDITOR-IN-CHIEF **DILDAR KONUKOGLU**
Istanbul University, Cerrahpaşa Faculty of Medicine

ASSOCIATE EDITORS **NECIP ILHAN**
Firat University, Faculty of Medicine

ASIM OREM
Karadeniz Technical University, Faculty of Medicine

EDITORIAL ASSISTANT **E. CUNEYT CANBULAT**
General Manager of KBUDEK External Quality Control Programme

PUBLISHING MANAGER **DILDAR KONUKOGLU**
Istanbul University, Cerrahpaşa Faculty of Medicine

PUBLISHING MANAGER ASSISTANT **FIKRET TALU**
Secretary of Association of Clinical Biochemistry Specialists

SCIENTIFIC ADVISORY BOARD

KHOSROW ADELI, Canada

Toronto University, The Hospital for Sick Children and
Departments of Laboratory Medicine and Pathobiology,
Biochemistry, and Physiology, Ontario

EVIN ADEMOGLU, Turkey

Istanbul University, Medical Faculty, Department of Medical
Biochemistry, Istanbul

HALIDE AKBAS, Turkey

Akdeniz University, Medical Faculty, Department of Medical
Biochemistry, Antalya

ANGELO AZZI, USA

Tufts University, Jean Mayer USDA Human Nutrition
Research Ctr. on Aging (HNRCA), Boston, Massachusetts

BANU ISBİLEN BASOK, Turkey

Health Sciences University, Tepecik Training and Research
Hospital, Medical Biochemistry Laboratory, Izmir

ETIENNE CAVALIER, Belgium

Centre Hospitalier Universitaire de Liège, Specialist in
Laboratory Medicine, EuSpLM, University of Liège

AMITAVA DASGUPTA, USA

University of Texas Health Sciences Center, Department of
Pathology and Laboratory Medicine, Huston

KAYA EMERK, Turkey

Istanbul Kent University, School of Dental Medicine,
Department of Biochemistry, Istanbul

KYM FRANCIS FAULL, USA

University of California Los Angeles, Pasarow Mass
Spectrometry Laboratory, Los Angeles, California

ASUMAN GEDIKBASI, Turkey

Istanbul University, Institute of Child Health, Pediatric Basic
Sciences, Medical Genetics, Istanbul

UZAY GORMUS DÉGRIGO, Turkey

Karolinska Institutet, Department of Medical Biochemistry
and Biophysics, Solna

NEVIN ILHAN, Turkey

Firat University, Medical Faculty, Department of Medical
Biochemistry, Elazig

FERRUH K. ISMAN, Turkey

Istanbul Medeniyet University, Goztepe Training and Research
Hospital, Clinical Chemistry Department, Istanbul

HUSEYİN KAYADIBI, Turkey

Hitit University, Medical Faculty, Biochemistry Department,
Corum

GABOR L. KOVACS, Hungary

University of Pécs, Medical School, Department of Laboratory
Medicine, Pécs

MINE KUCUR, Turkey

Istanbul University Cerrahpaşa, Cerrahpaşa Medical Faculty,
Department of Biochemistry, Istanbul

ISHAK OZEL TEKİN, Turkey

Bulent Ecevit University, School of Medicine, Department of
Immunology, Zonguldak

MAURO PANTEGHINI, Italy

Milan University, Medical School, Department of Clinical
Biochemistry and Clinical Molecular Biology, Milano

JORGE L. SEPULVEDA, Italy

Columbia University, Department of Patology and Cell Biology,
New York

MUHİTTİN SERDAR, Turkey

Acibadem University, Istanbul

ANA-MARIA SIMUNDIC, Croatia

Sveti Duh University, University hospital, Department of
Medical Laboratory Diagnostics, University Hospital "Sveti
Duh", Zagreb

DOUGLAS THOMPSON, UK

Leeds University, Leeds Teaching Hospitals, Department of
Blood Science, Leeds

TOMRIS OZBEN TOMASI, Turkey

Akdeniz University, Medical Faculty, Department of
Biochemistry, Antalya

TURAN TURHAN, Turkey

Health Sciences University, Ankara Numune Training and
Research Hospital, Medical Biochemistry Laboratory, Ankara

SUKRU ULUSOY, Turkey

Karadeniz Technical University, Medical Faculty, Department
of Internal Medicine, Trabzon

ALEXANDER ZOUGMAN, UK

St. James's University Hospital, Clinical and Biomedical
Proteomics Group, Cancer Research UK Centre, Leeds

VOLUME 2 ISSUE 1 YEAR 2019

The Owner and Publishing Manager on behalf of
the Association of Clinical Biochemistry Specialists
(Klinik Biyokimya Uzmanları Derneği)

PROF. DILDAR KONUKOGLU

Address: Maslak Mah. AOS 55. Sok. No: 2, 42 Maslak A

Phone: Blok Daire: 231 Sanyer, Istanbul-Turkey

Fax: +90 212 241 26 53

e-mail: +90 212 241 26 54

web: www.kbud.org.tr

info@kbud.org.tr



Publisher: KARE PUBLISHING

Address: Concord Istanbul Dumlupinar

Mah., Yumurtacı Abdi Bey Cad.

Cihan Sok. No: 15, B Blok

Da: 162 Kat: 21, Kadıköy, Istanbul,

Phone: +90 216 550 61 11

Fax: +90 212 550 61 12

e-mail: info@karepb.com

web: www.kareyayincilik.com

International Journal of Medical Biochemistry is a peer-reviewed journal published triannually.

Materials published in the Journal is covered by copyright 2018. All rights reserved.

This publication is printed on paper that meets the international standard ISO 9706:1994.

National Library of Medicine (USA) recommends the use of permanent, acid-free paper in the production of biomedical literature.

Yayın Türü: Uluslararası Sureli

Basım Tarihi: Ocak 2019

Basım: Filmevi Grafik Renk Ayrımı

Sistemleri San. Tic. LTD. ŞTİ.

Istanbul-Türkiye



CONTENTS VOLUME 2 ISSUE 1 YEAR 2019

ORIGINAL ARTICLES

- Plasma preptin levels in patients with type 2 diabetes mellitus**
Kalayci M, Halifeoglu I, Kalayci H, Ugur K, Yilmaz M. 1
- Visfatin: A potential biomarker for the early diagnosis and monitoring of acute coronary syndrome**
Guvenc Y, Cuhadar S, Bayturan O, Ulman C, Dinc Horasan G, Utuk O, Acar M. 6
- The impact of magnesium on glycemic regulation**
Aksit M, Zeytinli Aksit M, Isbilen Basok B. 13
- An approach to screening for macroprolactinemia in all hyperprolactinemic sera**
Nurlu Ayan N, Keskin Temeloglu E. 19
- Comparison of small-volume tubes and vacuum blood tubes for complete blood count**
Unal K. 24

REVIEW

- A promising novel biomarker for embryogenesis and carcinogenesis: S100P protein**
Gormus U. 30