

Unraveling the Heterogeneity of Tumor Immune Microenvironment in Hepatocellular Carcinoma by Single-Cell RNA Sequencing and its Implications for Prognosis and Therapeutic Response

See page 876

900 Diagnostic Value of Plasma Long Non-coding SLC26A4 Antisense RNA 1 Combined with Magnetic Resonance Imaging in Rectal Cancer

922 hsa_circ_0000520 Serves as a Prognostic Biomarker for Colorectal Cancer and Promotes in the Disease Progression





Editor in Chief

Aydın Şeref Köksal🗅

Department of Gastroenterology, Umut Hospital, Ankara, Türkiye

Section Editors

Engin Altıntaş🕩

Department of Gastroenterology, Mersin University Faculty of Medicine, Mersin, Türkiye

Yasemin Balaban[®]

Department of Gastroenterology, Hacettepe University Faculty of Medicine, Ankara, Türkiye

Ülkü Dağlı

Department of Gastroenterology, Başkent University Faculty of Medicine, Ankara, Türkiye Gökhan Kabaçam®

Department of Gastroenterology, Ankara Güven Hospital, Ankara, Türkiye Department of Internal Medicine, Yuksek İhtisas University Faculty of Medicine, Ankara, Türkiye

İsmail Hakkı Kalkan 🕩

Department of Gastroenterology, TOBB University of Economics and Technology Faculty of Medicine, Ankara, Türkiye Dilek Oğuz®

Department of Gastroenterology, Çanakkale Onsekiz Mart University Faculty of Medicine, Çanakkale, Türkiye

Fatih Tekin

Department of Gastroenterology, Ege University Faculty of Medicine, İzmir, Türkiye

Associate Editors

Nejat Akar🕩

Department of Pediatrics and Molecular Genetics, TOBB University of Economics & Technology Faculty of Medicine, Ankara, Türkive

Hüseyin Alkım🕩

Department of Gastroenterology, Şişli Etfal Education and Research Hospital, İstanbul, Türkiye

Mehmet Asıl

Division of Internal Medicine, Department of Gastroenterology, Necmettin Erbakan University Meram Faculty of Medicine, Konya, Türkiye

Göksel Bengi

Department of Gastroenterology, Dokuz Eylül University Faculty of Medicine, İzmir, Türkiye

Nilay Danıs₀

Department of Gastroenterology, Dokuz Eylül University, İzmir, Türkiye

Çiğdem Ömür Ecevit몓

Department of Pediatric Gastroenterology, Health Science University, Dr. Behçet Uz Children Hospital, İzmir, Türkiye

Cumali Efe

Department of Gastroenterology, Gazi Yaşargil Education and Research Hospital, Diyarbakır, Türkiye Ahmet Tarık Eminler

Department of Gastroenterology, Sakarya University Faculty of Medicine, Sakarya, Türkiye

İlkay Ergenç🗅

Department of Gastroenterology, Marmara University School of Medicine, İstanbul, Türkiye

Institute of Liver Studies, King's Collage Hospital, London, UK

Ödül Eğritaş Gürkan

Department of Pediatric Gastroenterology, Gazi University Faculty of Medicine, Ankara, Türkiye

Hüseyin Savas Göktürk®

Department of Gastroenterology, Başkent University Faculty of Medicine, Ankara, Türkiye

Özlem Gül

Department of Gastroenterology, Kırıkkale University Faculty of Medicine, Kırıkkale, Türkiye

Gülsah Gündoğdu

Department of Physiology, Pamukkale University Faculty of Medicine, Denizli, Türkiye

Deniz Cansen Kahraman

Graduate School of Informatics, Middle East Technical University, Ankara, Türkiye Haluk Tarık Kani

Department of Gastroenterology, Marmara University Faculty of Medicine, İstanbul, Türkiye

Dilara Turan Gökçe

Ankara Sincan Education and Research Hospital, Ankara, Türkiye

Tarkan Karakan

Department of Gastroenterology, Gazi University Faculty of Medicine, Beşevler, Ankara, Türkiye

Serkan Öcal

Department of Gastroenterology, Antalya Training and Research Hospital, University of Health Sciences, Antalya, Türkiye

Volkan Öter

Department of Gastrointestinal Surgery, Ankara City Hospital, Ankara, Türkiye

Erkin Öztas®

Department of Gastroenterology, Acıbadem Maslak Hospital, İstanbul, Türkiye



Cem Şimşek

Department of Gastroenterology, Hacettepe University Faculty of Medicine, Ankara, Türkiye

Salih Tokmak®

Department of Gastroenterology, Düzce University Faculty of Medicine, Düzce, Türkiye

İlker Turan®

Department of Gastroenterology, Ege University Faculty of Medicine, İzmir, Türkiye Yiğit Uyanıkgil[©]

Department of Histology and Embryology, Ege University Faculty of Medicine, İzmir, Türkiye

Nalan Gülşen Ünal🕩

Department of Gastroenterology, Ege University Faculty of Medicine, İzmir, Türkiye

Suna Yapalı

Department of Gastroenterology, Acibadem University, Altunizade Acibadem Hospital, İstanbul, Türkiye Öykü Tayfur Yürekli

Department of Gastroenterology, Ankara Yıldırım Beyazıt University Faculty of Medicine, Ankara, Türkiye

Statistical Editor

Gülşah Şeydaoğlu Department of Biostatistics, Çukurova University Faculty of Medicine, Adana, Türkiye

International Associate Editor

Ahmet Gürakar

Department of Gastroenterology and Hepatology, Johns Hopkins University School of Medicine, Baltimore, USA



General Manager

Ali Şahin

Finance Coordinator

Sinem Fehime İlhan

Journal Managers

Deniz Kaya Irmak Berberoğlu **Publication Coordinators**

Derya Azer Nisanur Atıcı Lütfiye Çetin Şeref Mert Gücün

Publications Technologies Coordinator

Ayça Nur Sezen

Project Assistant

Ozan Şahin

Editor in Chief: Aydın Şeref Koksal

Address: Mustafá Kemal Mahallesi, 2126 Sokak, Kolbay İş Merkezi, C blok, No.: 6-9, Cankaya, Ankara, Türkiye

Phone: +90 312 284 15 11 **Fax:** +90 312 284 80 75 **E-mail:** dernek@tgd.org.tr

Publishing Service: AVES

Address: Buyukdere Cad., 105/9 34394 Mecidiyekoy, Şişli,

İstanbul, Türkiye

Phone: +90 212 217 17 00
Fax: +90 212 217 22 92
E-mail: info@avesyayincilik.com
Web page: avesyayincilik.com



About the Turkish Journal of Gastroenterology

Turkish Journal of Gastroenterology is a peer reviewed, open access, online-only journal published by the Turkish Society of Gastroenterology.

Turkish Journal of Gastroenterology is a monthly publication that is published in English.

Abstracting and Indexing

Turkish Journal of Gastroenterology is covered in the following abstracting and indexing databases; Web of Science-Science Citation Index Expanded, PubMed/MEDLINE, EMBASE, Scopus, DOAJ, China National Knowledge Infrastructure (CNKI), TUBITAK ULAKBIM TR Index, EBSCO, Gale.

All content published in the journal is permanently archived in Portico.

Aims, Scope, and Audience

Turkish Journal of Gastroenterology aims to publish studies of the highest scientific and clinical value, and encourages the submission of high-quality research that advances the understanding and treatment of gastroenterology and hepatology issues.

Turkish Journal of Gastroenterology covers a wide range of topics related to gastroenterology and hepatology, including diagnostic methods, treatment techniques, and prevention strategies. The journal is interested in publishing original research that addresses important clinical questions and advances the understanding and treatment of these conditions. This may include studies on the effectiveness of different treatments, new diagnostic tools or techniques, and novel approaches to preventing or managing gastrointestinal, hepatic, and related conditions.

Turkish Journal of Gastroenterology publishes clinical and basic research articles, reviews, systematic reviews and metaanalyses, video articles and letters to the editor. Conference proceedings may also be considered for publication.

The target audience of the journal includes healthcare professionals, physicians, and researchers who are interested in or working in the gastroenterology and hepatology field, and related disciplines.

Open Access Policy

Turkish Journal of Gastroenterology is an open access publication.

Starting on August 2022, all content published in the journal is licensed under the Creative Commons Attribution (CC BY) 4.0 International License which allows third parties to read, copy and redistribute the material in any format and adapt the material for any purpose immediately upon publication by giving the appropriate credit to the original work.

The content published before August 2022, was licensed under a traditional copyright, but the archive is still available for free access.

All published content is available online, free of charge at turkjgastroenterol.org.

When using previously published content, including figures, tables, or any other material in both print and electronic formats, authors must obtain permission from the copyright holder. Legal, financial and criminal liabilities in this regard belong to the author(s).

Authors retain the copyright of their published work in the Turkish Journal of Gastroenterology.



Copyright Policy

A Copyright Agreement and Acknowledgement of Authorship form should be submitted with all manuscripts. Authors should submit the Copyright Agreement and Acknowledgement of Authorship form to the online submission system during the first revision. By signing this form, authors transfer the copyright of their work to the Turkish Society of Gastroenterology and agree that the article, if accepted for publication by the Turkish Journal of Gastroenterology be licensed under a Creative Commons Attribution (CC BY) 4.0 International License which allows third parties to read, copy and redistribute the material in any format and adapt the material for any purpose immediately upon publication by giving the appropriate credit to the original work.

Publication Fee Policy

Starting on February 1, 2023, the Turkish Journal of Gastroentereology will collect an article processing charge (APC) for all articles.

Upon acceptance of the manuscript, authors should transfer the payment to the account stated in the acceptance letter. Following the transfer, please send your receipt of payment to info@turkjgastroenterol.org. Below is a list of APC amounts based on the type of manuscript.

- Original Article/Review 1200 USD (VAT included) + 3% Transaction Fee (36 USD)
- Letter to the Editor 720 USD (VAT included) + 3% Transaction Fee (22 USD)
- Research Letter 720 USD (VAT included) + 3% Transaction Fee (22 USD)
- Video Article 480 USD (VAT included) + 3% Transaction Fee (14 USD)

Please note that all submissions are evaluated by the Editorial Board and the external reviewers in terms of scientific quality and ethical standards. APC payments do not affect the outcome of the article's evaluation or its publication priority.

There are no surcharges based on the length of an article, figures, or supplementary data.

Any financial contribution or support received from third parties for a manuscript should be disclosed at the time of initial submission. Should APC be paid by a third party other than the author or the author's institution, authors must provide this information on the title page and ICMJE Disclosure Form.

APCs cover the expenses for publishing services the journal provides, including costs of peer review administration and management, professional production of articles in PDF and other formats, and dissemination of published papers in various venues and other publishing functions.







Table of Contents

Review

876 Unraveling the Heterogeneity of Tumor Immune Microenvironment in Hepatocellular Carcinoma by Single-Cell RNA Sequencing and its Implications for Prognosis and Therapeutic Response Ying Han, Lele Song, Lingna Ly, Chunlei Fan, Huiguo Ding

Original Articles

Gastrointestinal Surgery

889 MIR210HG Accelerates the Progression of Colorectal Cancer and Affects the Function of Colorectal Cancer Cells by Downregulating miR-1226-3p Chunyan Jiang, Xiaofeng Zhao

Gastrointestinal Tract

900 Diagnostic Value of Plasma Long Non-coding SLC26A4 Antisense RNA 1 Combined with Magnetic Resonance Imaging in Rectal Cancer Zhiqian Li, Mei Pu, Peng Zhou, Tao Zhang, Yang Xu, Yusui Zhang

909 Prevotellaceae Modulates Colorectal Cancer Immune Microenvironment to Assist Anti-PD-L1 Immunotherapy Song Xu, Jianqiao Kong, Yang Dai, Hengping Li **922** hsa_circ_0000520 Serves as a Prognostic Biomarker for Colorectal Cancer and Promotes in the Disease Progression

Bingzhe Shi, Xiufen Lu, Wanli Ma, Chao Huang, Junyue Huo

Basic and Translational

933 Long Non-Coding RNA SNHG3 Promotes the Progression of Cholangiocarcinoma by Regulating the miR-151a-3p/STAT5a Axis
Xiaoping Wei, Dongyun Cun, Danping Yang, Qianyao Yi, Daguang TianPancreatobiliary

Pancreatobiliary

945 The Effectiveness of Endoscopic Ultrasonography and Computed Tomography in the Differentiation of Pancreatic Cystic Neoplasms: A Single-Center Experience Bengi Öztürk, Koray Ceyhan, Mehmet Bektaş

Letter to the Editor

Gastrointestinal Tract

954 A Rare Cause of Mechanical Icterus: Prostate Cancer Metastasis Adnan Ozkahraman, Ozan Durmaz, Yusuf Kayar