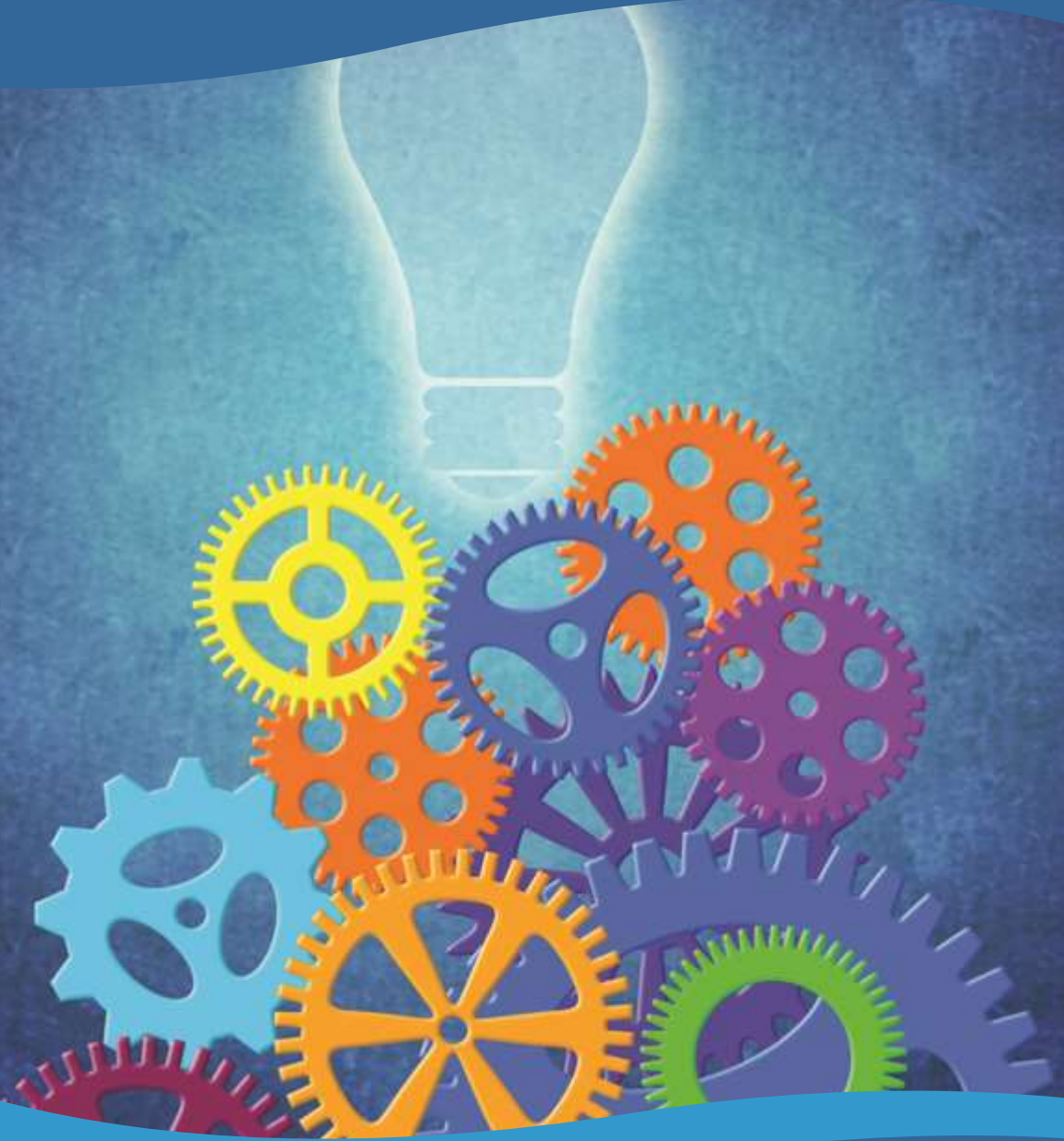


# ICPAR 2026



**3rd International Conference on Pioneer and Academic Research  
ICPAR 2026**

February 16-17, 2026: Konya, Turkey

**Abstract Book**

# ABSTRACT BOOK OF 3RD INTERNATIONAL CONFERENCE ON PIONEER AND ACADEMIC RESEARCH ICPAR 2026

## ABSTRACT BOOK OF 3RD ICPAR 2026:

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**16-17 February 2026**

**Konya, Turkey**

**Publication date: 25.02.2026**

**Publisher: All Sciences Academy**

Abstract Book of 3rd International Conference on Pioneer and Academic Research ICPAR 2026

<https://as-proceeding.com/index.php/icpar/home>

3rd International Conference on Pioneer and Academic Research ICPAR 2026: edited by All Sciences Academy.

ISBN: 978-625-8676-64-8

As this is a serial book published, it has ISBN. All abstracts were peer reviewed.

ISBN: 978-625-8676-64-8

Printed in the Turkey with ISBN 978-625-8676-64-8

International Conference Website

<https://as-proceeding.com/index.php/icpar/home>

## INTRODUCTION

We had the great honor of 3rd International Conference on Pioneer and Academic Research ICPAR 2026. It was truly a great pleasure for us to greet a lot of participants from many different countries to attend ICPAR 2026! We firmly believe that the conference will become an important international event in the field of cross-industry discussion about innovations in Academic Studies.

Three cooperating organizations supported the two-day conference. There were 107 papers accepted for presentation at ICPAR 2026, contributed from different countries. We had plenary speeches and several well-known scientists and experts, to give invited talks at different sessions.

The purpose of ICPAR 2026 was to provide a forum for the participants to report and review innovative ideas, with up-to-date progress and developments, and discuss novel approaches to the application in the field of their own research areas and discuss challenges of doing science.

We sincerely hope that the exchange of ideas on doing research, science and improving education will help the participants, and international cooperation sharing the common interest will be enhanced.

On behalf the Organization Committee of ICPAR 2026, we would like to heartily thank our cooperating organizations for all they have done for the conference. We would also like to thank the authors for their contribution to the proceedings; the participants and friends of ICPAR 2026, for their interest and efforts in helping us to make the conference possible; and the Editorial boards for their effective work and valuable advice, especially the ICPAR 2026 secretariat and the ICPAR 2026 staff, for their tireless efforts and outstanding services in preparing the conference and publishing the Proceedings.

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FEBRUARY 16-17, 2026**

**25.02.2026**

16-17 Şubat 2026 tarihlerinde MEET üzerinden çevrimiçi olarak gerçekleştirilen 3rd International Conference on Pioneer and Academic Research ICPAR 2026 konferansı akademik teşvik yönetmeliğinin 9. Maddesine istinaden “Tebliğlerin sunulduğu yurt içinde veya yurt dışındaki etkinliğin uluslararası olarak nitelendirilebilmesi için Türkiye dışında en az beş farklı ülkeden sözlü tebliğ sunan konuşmacının katılım sağlaması ve tebliğlerin yarıdan fazlasının Türkiye dışından katılımcılar tarafından sunulması esastır.” kriterlerini sağlamaktadır. Toplam 107 adet bildirinin yer aldığı kongre iki gün boyunca çevrimiçi olarak gerçekleştirilmiştir.

Türkiye dışından toplam 13 farklı ülkeden (Fas, Cezayir, Pakistan, Arnavutluk, Kuzey Makedonya, Libya, Hindistan, Tunus, Fransa, Birleşik Krallık, Slovenya, Kosova, Ukrayna) katılım sağlanmış olup, 107 adet bildirinin 60 (%56,07) tanesi yabancı katılımcı tarafından sunulmuştur.

*Kongremize ilginiz için teşekkür ederiz.*

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3RD ICPAR 2026 konferansı bilimsel komitesinin çoğunluğu yabancı bilim insanlarından oluşmaktadır. Aşağıdaki link ile bilimsel komite incelenebilir:

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Ayrıca konferansımızda hakem değerlendirmesi olup hakem değerlendirmesi olumlu sonuçlanmadan ücret talebinde bulunulmamaktadır.

2024 MART DÖNEMİ DOÇENTLİK BAŞVURU ŞARTLARI yönetmeliğinin 8. bölümde yer alan Bilimsel Toplantı tanımlamasının b bendindeki “Diğer Uluslararası/Ulusal bilimsel toplantının düzenleme komitesinde, kurum/tüzel kişilik/karar organı tarafından resmi olarak görevlendirilmiş üniversite/enstitü/bilimsel kurum/branş derneği akademisyen temsilcisi bulunması zorunludur.” şeklindedir.

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<https://drive.google.com/file/d/1eZalxRl8q6-eXATZzwUraH9KOhtQzFho/view>

Ayrıca görevlendirme yazıları ilgili konferansın özet ve tam metin kitapçıklarında yer almaktadır.

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Konu : Bilimsel Toplantı Görevlendirme

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İLGİLİ MAKAMA

İlgi : Öğretim Üyesi Doç. Dr. Nermin KİŞİ'nin 30.10.2023 tarihli dilekçesi.

Yüksekokulumuz Yönetim ve Organizasyon Bölümü Öğretim Üyesi Doç. Dr. Nermin KİŞİ'nin "All Sciences Academy Yayınevi"nin düzenleyeceği bilimsel toplantıların düzenleme ve bilim kurullarında görev almasında Yüksekokulumuzca bir sakınca bulunmamaktadır. İş bu belge ilgilinin isteği üzerine tanzim edilmiştir.

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## CRISPR-Edited Nasopharyngeal Commensals as a Platform for Next-Generation Microbial Probiotics

Yaroslav Bondarenko<sup>1\*</sup>, Olena Kochnieva<sup>2</sup>

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**Abstract** – The nasopharyngeal microbiome constitutes a dynamic immunological interface in which commensal microorganisms actively regulate epithelial integrity, pathogen exclusion, and inflammatory signaling within mucosa-associated lymphoid tissue. Specific taxa demonstrate stable colonization, absence of virulence determinants, and secretion of bioactive metabolites—including short-chain fatty acids, nitric oxide, bacteriocins, and lipid mediators—that modulate NF- $\kappa$ B, JAK/STAT, and TGF- $\beta$ -dependent pathways, promote regulatory T-cell differentiation, enhance IgA production, and suppress excessive pro-inflammatory cytokine release. Nevertheless, the intrinsic immunomodulatory capacity of native commensals remains quantitatively insufficient for therapeutic control of airway inflammation. A systematic synthesis of genomic, proteomic, metabolomic, and immunological evidence (2005–2025) supports the conceptual transition from passive probiotic supplementation toward programmable living biotherapeutics enabled by CRISPR/Cas genome engineering. The proposed framework integrates inflammation-inducible therapeutic gene expression, ecological biocontainment modules, auxotrophic control, and self-limiting nuclease feedback to achieve localized, context-dependent anti-inflammatory signaling while preventing horizontal gene transfer and systemic dissemination. Multistage validation spanning *in silico* genomic stability modeling, *in vitro* epithelial-immune co-culture systems, and *in vivo* murine colonization paradigms demonstrates theoretical feasibility of sustained mucosal immunoregulation coupled with preservation of microbiome ecological balance. Collectively, CRISPR-programmed nasopharyngeal commensals define a mechanistically grounded platform for precision modulation of mucosal inflammatory homeostasis and represent a foundational step toward personalized microbial therapeutics for infectious and chronic inflammatory airway diseases, pending rigorous preclinical and translational validation.

**Keywords** – *CRISPR/Cas engineering; mucosal inflammation; nasopharyngeal commensals; regulatory immunity; living biotherapeutics; microbial precision medicine*

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