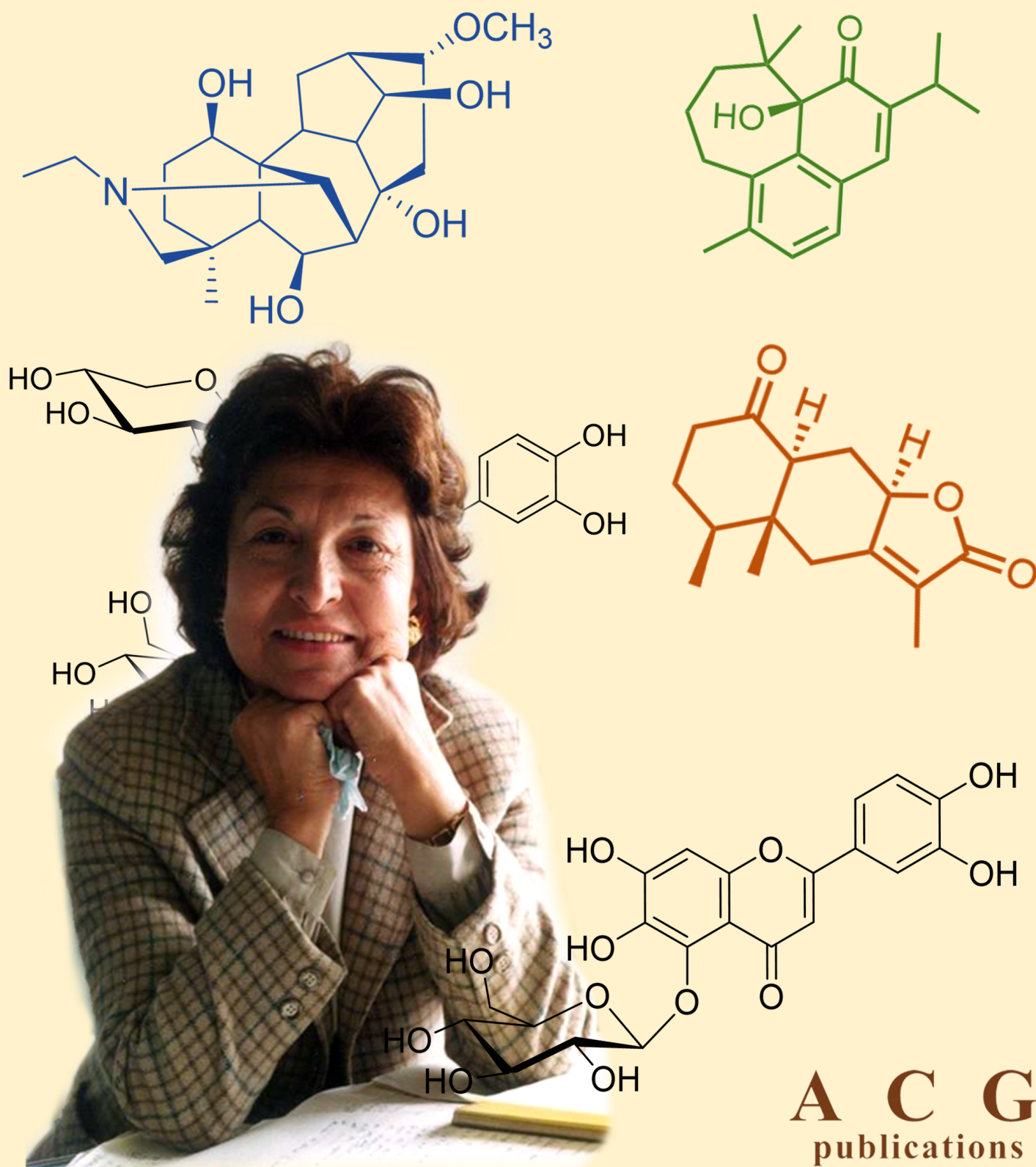


# Records of Natural Products

A scientific open access journal in the field of natural products.

Volume: 15 Year: 2021 Issue: 6 November-December (Special Issue Dedicated to the Memory of Professor Ayhan Ulubelen)



Prof. Dr. Ayhan Ulubelen

**A C G**  
publications  
EISSN: 1307-6167

## Editor-in chief

Editor-in-Chief **Gülaçtı Topçu**

Editor-in-Chief **Ahmet C Goren**

## Editors

Erkan **Baloğlu**

Erdal **Bedir**

İhsan **Çalış**

David G.I. **Kingston**

Hasan **Kırmızıbekmez**

Ufuk **Kolak**

Temel **Özek**

Atta-ur **Rahman**

Hasan **Seçen**

William N. **Setzer**

Gülaçtı **Topçu**

Rob **Verpoorte**

Kemal H. C. **Baser**

Maurizio **Bruno**

İlhami **Gülçin**

Turgut **Kılıç**

Süheyla **Kırmızıgül**

Mahmut **Miski**

Franco **Piozzi**

Bernd **Schneider**

Bilge **Şener**

İpek **Suntar**

Olga **Tzakou**

Jenny M **Wilkinson**

## Language Editors

William N. **Setzer**

Zeynep **Sadak**

## Abstracting & Indexing

Records of Natural Products is abstracted and Indexed in: Chemical Abstracts Service, CAB Abstracts, EMBASE, EMBiology, Index Copernicus, ProQuest; EBSCOhost, SCOPUS, Crossref, ISI Alerting Service; Chemistry Citation Index (CCI) and Science Citation Index-Expanded (SCI-E), *i*-Journals; *i*-Focus.

## Publisher

### ACG Yayıncılık Basın Yayın Sanayi ve Ticaret Limited Şirketi

Yenikent Mahallesi, Fırat Caddesi, 1/3, Gebze, Kocaeli, İstanbul, Türkiye  
+90 850 305 05 72 - www.acgpubs.org - info@acgpubs.org

2021© ACG Publications. All Rights Reserved

## Instruction For Authors

### Preparation of Manuscripts

Manuscripts should be prepared in English using a word processor.

Authors **must** use double spaced text and Citations in the text by using APA style reference style. All graphics and Tables can be integrated into the manuscript where the author wishes to place them. Requested supporting information must be prepared as shown in the [template of supporting information:Please click to open template file.](#)

The essential oil, volatiles and fatty acids and related papers should be prepared according to requested rules which is described in the following link"[Guide for essential oils, fatty acids and related studies](#): please use the appropriate

---

template file which are given above for essential oils, fatty acids and related studies as well".

**Novelty statements** of submitted manuscript must be provided as MS word file item by item. The maximum item should be 6 for the novelty statement.

**A graphical abstract** must be provided during submission. The dimensions of the graphical abstract must be 6.5 cm (h) x 12.5 cm (l). Please do not use the portrait version of graphical abstract. The graphical abstract must briefly show the contents of the abstract. Only structure of compound or picture of species not allowed for the graphical abstract.

**For new compounds:** New compounds search report of SciFinder should also be uploaded via the supporting information document system in PAMS.

**Review Articles** are critically evaluated on the specific area in natural product chemistry. If you would like to contribute to the journal with a review article, the authors must initially contact the editorial office by email to [info@acgpubs.org](mailto:info@acgpubs.org), as such articles are normally invited.

**Original Articles** are manuscripts describing structure elucidation novel compounds, synthesis of naturally occurring compounds and biological activities of natural compounds, as well as new analytical methods (analytical methods must include method validation and uncertainty evaluation parts in the main text and the details must be given in the supporting information file), chemotaxonomic investigations, chemical ecology, and biotechnology. Articles that do not contain new compound(s) and that only reveal the structure analysis of known substances are not accepted as original articles. Articles that contain only one new substance and do not contain previous activity results for the species/or substances studied in the literature should be submitted as a short report article. These manuscripts should reflect completed investigations rather than fragmentary parts of a larger study. In order to reduce manuscript length, specific experimental details, NMR and HRMS (please check for the sample) spectra must be made available as supplementary material from the corresponding author for new compounds.

The subtitles must be uses as follows.

1. Introduction

2. Materials and Methods

3. Results and Discussion (Results and Discussion sections can be numbered separately as Results, Discussion, as well as under a single heading, depending on the authors' preference.)

4. Conclusion

Acknowledgement (Optional)

Funding Statement (If applicable should be written)

Author Contributions (Mandatory)

Availability of Data and Materials (Mandatory for research articles it is optional for Review Articles)

Ethics Approval (If applicable should be written)

Conflicts of Interest (Mandatory)

Supporting Information (Optional)

Short Reports are suitable for reporting known metabolites from new biological sources with discussion of biological activity and chemotaxonomic discussion, essential oil compositions, and new activities of known compounds. Manuscripts describing routine bioactivity screening (e.g., antimicrobial, antioxidant, antifeedant, etc.) of crude extracts or predictable and/or unexceptional bioactivity (e.g., antioxidant activity of polyphenolics, antimicrobial activity of essential oils), are generally not acceptable. Short Reports should be kept to a maximum of six (6) pages, including references. In order to reduce manuscript length, specific experimental details and NMR and HRMS spectra must be made available as supplementary material from the corresponding author or new compounds. The short report articles should not have more than 25 references.

The subtitles must be uses as follows.

1. Plant/Fungal/Micrororganism Source

2. Previous Studies

### 3. present Study

#### Acknowledgement (Optional)

#### Funding Statement

#### Author Contributions

#### Availability of Data and Materials

#### Ethics Approval


#### Conflicts of Interest

#### Supporting Information (Optional)

**Special Issues and Book reviews** are collections of articles on the specific topics in areas related to aims and scope of journals published in the journal. Offers for the special topics must be applied to the editorial office.

As the manuscript language is English, any author who is not fluent enough in English is encouraged to consult a fluent colleague or a paid editing service for the preparation of the manuscripts. Manuscripts having language deficiencies, i.e. grammar, fluency, etc., create heavy problems during the review process. Such manuscripts might be returned to the authors for correcting the language deficiencies.

**Manuscripts submitted to ACG publications are routinely screened by a software to check the originality of the submitted articles. It should be noted that ACG publications are committed to deterring plagiarism and self-plagiarism. Manuscripts submitted to ACG publications are routinely screened by a software to check the originality of the submitted articles. It should be noted that ACG publications are committed to deterring plagiarism and self-plagiarism. A plagiarism report must be uploaded during submission of manuscript.**

Title of the manuscript should be as brief as possible and typed to the template file with affiliation and addresses of all the authors, including corresponding author with an asterisk. **ORCID**  of all authors should be added as shown in the template of manuscripts. The e-mail address, phone and fax numbers of the corresponding author should be provided as a footnote on the title page. Abstracts of all kinds of submissions should be prepared with a maximum 200 words.

Manuscripts should be compiled in the following order: Manuscripts should be compiled in the following order: **Title page; Abstract; Graphical abstract (in PAMS only), Keywords; Introduction, Materials And Methods, Results and Discussion, Acknowledgments; Appendixes** (as appropriate); **References**; using a decimal system for subsections. Novelty statements of manuscript must be provided and authors must adhere to [SI units](#). When using a word which is or is asserted to be a proprietary term or trade mark authors must use the symbol ® or TM or alternatively a footnote can be inserted using the wording below: Please see the details of section to the following link "[Guide for manuscript preparation](#)".

#### References

The reference style has changed since the 2026 issues, and references should be written according to APA spelling rules. (Kytidou et al., 2020). Sample spellings are provided below. Unpublished results and personal communications should not be in the reference list, but may be mentioned in the text. If reference is made to papers submitted or in press, authors are requested to enclose a copy of manuscript or galley proof.

The following examples illustrate the format for reference:

#### Journal citation

Kytidou, K., Artola, M., Overkleeft, H. S., & Aerts, J. M. F. G. (2020). Plant glycosides and glycosidases: A treasuretrove for therapeutics. *Frontiers in Plant Science*, 11, 357.  
DOI:10.3389/fpls.2020.00357

#### Chapter citation

Ulubelen, A. and Topcu, G. (1992). Diterpenoids from *Salvia* species and their pharmacological activities, In: *Studies in Natural Products*, ed: Atta-ur Rahman, Elsevier Science, Amsterdam, Netherlands, pp.363-381.

#### Book citation

Adams, R.P (1995). Identification of essential oil components by gas chromatography/mass spectroscopy. Alluredpublishing Co. Carol Stream, Illinois.

#### ATTENTION

The number of authors of the reference is more than 10, names should be written up to the 10th author, and et.al should be written thereafter. When there are 10 authors or less, all authors should be written as shown in the example. While the issue number is written in bold, the parentheses should not be written in bold.

**Warning: The most common mistakes for the References:** Writing format of author names, not writing the reference name in lowercase letters, placing a period instead of a comma after the reference title, Journal names should not be written in their abbreviated form and with a period after the abbreviation. If the journal name consists of a single word, please do not put a period at the end.

### Plagiarism Check and Ethics

Any manuscript submitted, soon to be submitted or in press at any other journal will not be considered by Records of Natural Products (RNP), and it is authors responsibility to inform the Editor of Records of Natural Products if such event exists. If the submitted manuscript is a revised version of a previously rejected by RNP, the authors must indicate previous submission in their cover letter and explain the reason/changes that they made in the revised one.

The *Ethical Guidelines for Publication in Journals and Reviews* issued by the [European Association of Chemical and Molecular Sciences](#) are applied by Records of Natural Products. Authors of all the manuscripts submitted to Records of Natural Products automatically accept the guidelines given in the [Ethical Guidelines for Publication in Journals and Reviews](#) and the authors have to provide the ethical board approved document informations ( the number and date and ethical board name of ethical approval) in the main text of manuscript and related data should be available in supporting information file of manuscript, if necessary or requested by the editorial office. The following studies strongly needs ethical board approval eg. any of in vivo studies on any animal and human body, studies of endangered species in nature, information about the people including any kind of survey data etc. For detail please see the COPE guidelines.

Authors are encouraged to attach an authenticated report during the submission to make sure that there is no plagiarism problem. Manuscripts submitted to Records of Natural Products publications are routinely screened by a software to check the originality of the submitted articles. It should be noted that RNP publications are committed to deterring plagiarism and self-plagiarism

ACG Publications journals use iThenticate® software to check the originality of submitted manuscripts for plagiarism. If a duplication is detected by the editorial office and reviewers, the manuscript will directly be rejected. If the authors use the same sentences of their or another author's previous work with citation without quotation mark, it will still be considered as self-plagiarism and plagiarism, respectively. Records of Natural Products has the right of removing any article published in RNP, and banning the authors submitting their studies in future if any ethical violation is identified.

### Copyright

It is a condition of publication that authors vest or license copyright in their articles, including abstracts, in ACG Publications. This enables us to ensure full copyright protection and to disseminate the article, and the Journal, to the widest possible readership in electronic formats as appropriate. Authors must accept the articles published in the journal for free all around the world. To read and download published papers is free for scientific purposes.

### Supplementary Material

Supplementary materials could be sent together with manuscript submission such as spectra, video, Picture etc.

### Publication Fee

Current publication fees for the different kinds of articles are given below\*\*\*.

Current publication fees for the different kinds of articles are given below

Current publication fees for the different kinds of articles are given below.

Article Type	Number of Pages	Publication fee
Review Article	1-20	1500 USD
Book Reviews	1-2	300 USD
Original Articles	1-15	1200 USD
Short Reports	1-6	1000 USD

\*% VAT is included for foreing authors, bank commission should be applied to payments. No per-page publication fee

---

will be charged in 2026 year submissions.

No per page publications for articles up to six (6) pages in the final edition for submission of 2025. However, for articles exceeding six pages, a per-page fee of \$10 must be paid separately by the authors for 2025 submissions.

**\*\*No submission fee applied by ACG Publications journal. APC is only applicable for the accepted articles.**

\*% VAT is included for foreign authors, bank commission should be applied to payments. No per-page publication fee will be charged for articles up to six (6) pages in the final edition. However, for articles exceeding six pages, a per-page fee of \$10 must be paid separately by the authors.

**\*\*No submission fee applied by ACG Publications journal. APC is only applicable for the accepted articles.**

**\*\*\*While the fees given in the table above are valid for articles up to 6 pages, a fee of 10 USD is requested from authors for each page after 6 pages**

*Withdrawal of a Manuscript* : If you intend to withdraw your manuscript after it has been peer reviewed, or after it has been typeset, but not yet published, you will be asked to pay according to the following:

For peer review: 450 USD per article

For Accepted and typesetting: Editorial service fee of the article type must be paid by the authors. See above Table.

Considering the primary aim of RNP, waivers are available for the authors who are the least developed countries. To apply to those options, the corresponding author and 80 % of the authors of the concerned manuscript must be from those countries and the study must be conducted in the least developed countries. Please visit the page concerning the list of these countries; <https://www.un.org/development/desa/dpad/least-developed-country-category/ldcs-at-a-glance.html> . If you have any difficulties about this issue please contact the editorial office. APC only available for accepted articles in ACG Journals and no fee required during the submission of manuscript.

The authors are charged a fee for English language corrections and/or journal format corrections requested by the authors or editorial team. These services are not considered within the free publication criteria of related journals of ACG PUBLICATIONS.

### Proof Corrections

**The proof corrections must be done carefully by the authors. When proof corrections are returned to Journal further corrections are not allowed, after the peer review process.**

**Erratum or Publisher Correction.** Notification of an important error made by the journal that affects the publication record or the scientific integrity of the paper, or the reputation of the authors or of the journal.

**Corrigendum or Author Correction.** Notification of an important error made by the author(s) that affects the publication record or the scientific integrity of the paper, or the reputation of the authors or the journal.

**Retraction.** Notification of invalid results that affect the reliability of a previously published article. The original article is marked as retracted but remains available to readers, and the retraction statement notifying readers of the invalidity of the published paper is bi-directionally linked to the original published paper.

**Addendum.** Notification of additional information about a paper. Addenda are published when the editors decide that the addendum is crucial to the reader's understanding of a significant part of the published contribution. Addenda include Editorial Expression of Concern, which is an editorial statement alerting our readership to serious concerns with the published paper. Editorial Expressions of Concern are typically updated with another amendment once further information is available. The editors may request additional information after publication of the article from the authors and it can be available on the page of the article.

### Peer Review Policy

---

All published research articles in Records of Natural Products have undergone rigorous single blind peer review, based on initial editor screening and anonymized refereeing by expert referees.



### Contents

#### Original Article

Gülaçtı Topçu

[Special Issue Dedicated to the Memory of Professor Ayhan Ulubelen \(1931-2020\)](#) - p.0-0

#### Review Article

Geoffrey A. Cordell and Sharna-kay Daley

[Biosynthesis of the Ommochromes and Papiliochromes](#) - p.420-432

#### Review Article

Muhammad Torequl Islam, Cristina Quispe, Mohammad S. Mubarak, Bahare Salehi, Željko Reiner, Miquel Martorell, Javad Sharifi-rad and William N. Setzer

[Protective Effects of Natural Products and Their Derivatives on Genetic Material: A Critical Review](#) - p.433-462

#### Original Article

Sibel Kıran Aydın, Abdulselam Ertaş , Mehmet Boğa, Ebru Erol, Gülbahar Özge Alim Toraman, Tuba Kuşman Saygı, Belkıs Halfon and Gülaçtı Topçu

[Di- and Triterpenoids Isolation and LC-MS Analysis of Salvia marashica Extracts with Bioactivity Studies](#) - p.463-475

#### Original Article

Atia Tul Wahab, Muniza Shaikh, Uzma Naqeeb, Shakil Ahmed, M. Iqbal Choudhary and Atta-ur Rahman

[Study of Anacyclus pyrethrum Lag. Root Extract against Aedes aegypti Linn. Larvae: Potential Vector Control for Dengue Viral Fever](#) - p.476-486

#### Original Article

Azmi Hanoğlu, Duygu Yiğit Hanoğlu, Nilay Demirel, Hasan Soliman Yusufoglu and İhsan Çalış

[Secondary Metabolites from Teucrium creticum L.](#) - p.487-502

#### Original Article

Secil Yazıcı-Tütüniş, Fatma Memnune Erucar, Ezgi Öztaş, Emine Akalin, Gül Özhan, Mahmut Miski and Nur Tan

[Chemical Composition and Cytotoxic Effect of Prangos turcica A. Duran, M. Sagioglu & H. Duman](#) - p.503-512

#### Original Article

Hatice Kızıldaş, Zeynebe Bingöl, Ahmet C. Gören, Saleh H. Alwasel and İlhami Gülçin

[Anticholinergic, Antidiabetic and Antioxidant Activities of Ferula orientalis L. Determination of Its Polyphenol Contents by LC-HRMS](#) - p.513-528

#### Original Article

Fatma Tosun, Erdi C. Aytar, John A. Beutler, Jennifer A. Wilson and Mahmut Miski

[Cytotoxic Sesquiterpene Coumarins from the Roots of Heptaptera cilicica](#) - p.529-536

#### Original Article

Nazlı Boke Sarikahya, Ahmet C. Goren, Gaye Sumer Okkali and Süheyla Kırmızıgül

[Saponins from Twenty-Two Cephalaria Species](#) - p.537-546

#### Original Article

Gözde Kılıç, Gonca Tosun, Arif Bozdeveci, İshak Erik, Elif Öztürk, Rengin Reis, Hande Sipahi, Merve Cora, Sengul Alpay Karaoglu and Nurettin Yaylı



---

[Antimicrobial, Cytotoxic, Antiviral Effects, and Spectroscopic Characterization of Metabolites Produced by \*Fusarium oxysporum\* YP9B](#) - **p.547-567**

Original Article

Mehmet Akdeniz, Ismail Yener, Abdulsalam Ertaş , Mehmet Firat, Baris Resitoglu, Nesrin Hasimi, Sevgi Irtegun Kandemir, Mustafa Abdullah Yılmaz, Aslı Barla Demirköz, Ufuk Kolak and Sevil Öksüz

[Biological and Chemical Comparison of Natural and Cultivated Samples of \*Satureja macrantha\* C.A.Mey.](#) - **p.568-584**

Original Article

Ufuk Kolak, Abdulsalam Ertaş , Hatice Cakirca, Ismail Yener, Mehmet Akdeniz, Mehmet Firat and Gulactı Topcu

[Bioguided Isolation of Secondary Metabolites from \*Salvia cerino-pruinosa\* Rech. f. var. \*cerino-pruinosa\*](#) - **p.585-592**

Original Article

Zeynep Firat, Fatih Demirci, Betül Demirci, Hasan Kırmızıbekmez and Kemal H. C. Baser

[Microbial Transformation of \(-\)- \$\alpha\$ -Bisabolol Towards Bioactive Metabolites](#) - **p.593-601**

Short Report

Semiha Çetinel Aksoy, Melis Küçüksolak, Ataç Uzel and Erdal Bedir

[Benzodiazepine Derivatives from Marine-Derived \*Streptomyces cacaoi\* 14CM034](#) - **p.602-607**

Short Report

Talea Sana, Bina Siddiqui, Majid Khan, Saleem Shahzad, Samia Sattar and Sabira Begum

[Bioactive Natural Products from Endophytic Fungus \*Aspergillus nidulans\* Associated with \*Nyctanthes arbor-tristis\* Linn.](#) - **p.608-612**

Short Report

Ying Lu and Yifang Chen

[Eudesmane Sesquiterpenoids from \*Salvia plebeia\*](#) - **p.613-616**