

## Special Issue for *Anti-Cancer Agents in Medicinal Chemistry*

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**Title: 'Role of the heterocycles to design anti-cancer agents'**

### **Aim & Scope:**

Cancer is a worldwide crucial public health problem. Abnormal cell division and uncontrolled growth is the main reason behind this deadly disease. According to WHO (World Health Organization), it is the second leading cause of global deaths. Over 9 million deaths were recorded in 2018 just because of cancer. Among the anticancer drugs available in the market, heterocyclic skeletons are very common in those e.g. methotrexate, vinblastine, vincristine, daunorubicin, 5-fluorouracil, doxorubicin, etc. As a result, heterocycles are gaining special attention to design anticancer drugs. A larger number of heterocycles are under screening as they showed potent anticancer activities. Moreover, constant efforts have been made towards the mechanism of action of selected heterocyclic anticancer compounds. This thematic issue intends to highlight the anti-cancer activities of various heterocyclic scaffolds. Therefore, all the submitted Review Articles/Mini-reviews should focus on anti-cancer activities of different heterocyclic skeletons. Topics related to the synthesis of heterocycles having potent anti-cancer activities are also welcome.

**Keywords:** Anti-cancer drugs, anti-cancer activity, anti-tumor activity, bioactivity, *N*-heterocycles, *O*-heterocycles, *S*-heterocycles, fused-heterocycles,

### **Topics of interest include, but are not limited to:**

- Design and development of triazole derivatives as prospective anticancer agents : A Review
- Fused quinazolinone: Recent development in synthetic strategy and its anticancer effect
- Potential of Biginelli's adducts as potential anticancer agents.
- Naturally occurring *O*-heterocycles as anti-cancer agents
- Naturally occurring *N*-heterocycles as anti-cancer agents
- Naturally occurring *S*-heterocycles as anti-cancer agents
- Heterocyclic compounds: Importance in anticancer drug discovery
- Benzimidazole derivatives as anticancer agents
- Discovery, development and design of anthocyanins-inspired anticancer agents - A comprehensive review

### **Notes for Prospective Authors:**

The full manuscript has to be submitted online via <https://bentham.manuscriptpoint.com/journals/acame>

Please ensure the following before submitting the issue for smooth processing of your paper for publication:

- ❖ Financial contributions to the work being reported should be clearly acknowledged, as should any potential conflict of interest.
- ❖ References should be provided exactly in the journals specific format.
- ❖ Authors must supply a GRAPHICAL ABSTRACT. Please note that graphical abstract must not exceed 30 words, summarizing the contents of the paper in a concise, pictorial form meant for rapid scanning of the journal and capturing readers' attention. It may feature a key structure, reaction, equation, etc. that the manuscript elucidates upon. It will be listed along with the manuscript title, authors' names and affiliations in the contents page, typeset within an area of 5 cm by 17 cm.
- ❖ Paper's electronic file should be provided in MS-Word format.
- ❖ Provide complete names of the contributing authors.
- ❖ Provide complete mailing address of the two corresponding authors (if any) including telephone and fax nos.
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- ❖ The abstract of an article should be its clear, concise and accurate summary, having no more than 250 words, and including the explicit sub-headings (as in-line or run-in headings in bold). Use of abbreviations should be avoided and the references should not be cited in the abstract. Ideally, each abstract should include the following sub-headings, but these may vary according to requirements of the article.
  - Background
  - Objectives
  - Method
  - Results
  - Conclusion

**Please feel free to contact me at [banerjeebun@gmail.com](mailto:banerjeebun@gmail.com) for any further query.**

### **Schedule:**

Manuscript Submission deadline:	June 30, 2021
Peer Review Due:	July 30, 2021
Revision Due:	August 10, 2021
Notification of acceptance by the Guest Editor:	August 25, 2021
Final manuscripts due:	August 30, 2021

**Confirmed author list till date**

Sl. No.	Confirmed authors	h index	Proposed review title
1	Dr. Harshita Sachdeva; Associate Professor, University of Rajasthan, Jaipur, India. Email: drhmsachdevaster@gmail.com	9	Design and development of triazole derivatives as prospective anticancer agents : A Review
2	Dr. S. Mohana Roopan Assistant Professor (Senior), Chemistry of Heterocycles & Natural Product Research Laboratory, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Vellore, India Email: mohanaroopan.s@gmail.com	38	Fused quinazolinone: Recent development in synthetic strategy and its anticancer effect
3	Prof. Dr. Alireza Heidari, Full Distinguished Professor and Academic Tenure of Chemistry & Director of the BioSpectroscopy Core Research Laboratory at Faculty of Chemistry, California South University (CSU), Irvine, California, USA & President of the American International Standards Institute (AISII) Irvine, California, USA Email:scholar.researcher.scientist@gmail.com	67	Will be finalized soon
4	Prof. Ângelo de Fátima, Departamento de Química, Instituto de Ciências Exatas (ICEX) Universidade Federal de Minas Gerais Av. Pres. Antônio Carlos, 6627, Campus Pampulha Belo Horizonte, MG, Brazil, Email: <a href="mailto:adefatima.geqob@gmail.com">adefatima.geqob@gmail.com</a>	25	Potential of Biginelli's adducts as potential anticancer agents.
5	Prof. Biswanath Das Professor, Nizwa University, Onam. Email: biswanathdas@yahoo.com	45	Naturally occurring <i>O</i> - heterocycles as anti- cancer agents
6	Dr. Nidhi Goel Assistant Professor Banaras Hindu University, Varanasi, India Email: nidhigoel.chem@bhu.ac.in	14	Heterocyclic compounds: Importance in anticancer drug discovery
7	Dr. Ram Singh Associate Professor; Department of Applied Chemistry, Delhi Technological University (www.dtu.ac.in), Bawana Road, Delhi-42, INDIA. Email: ramsingh@dtu.ac.in	11	Benzimidazole derivatives as anticancer agents

8	Dr. Sasadhar Majhi Assistant Professor, Department of Chemistry, Triveni Devi Bhalotia College, Raniganj, West Bengal-713347, India. E-mail: sasadharmajhi@gmail.com	3	Discovery, development and design of anthocyanins-inspired anticancer agents - A comprehensive review
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