

# RSC Medicinal Chemistry

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## IN THIS ISSUE

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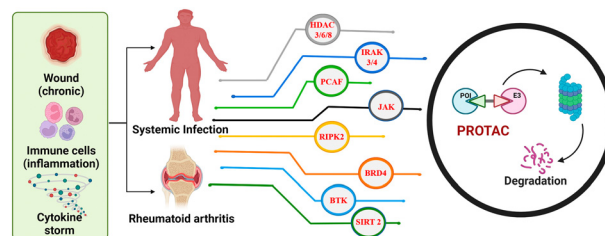
**Cover**  
See Paula Gomes *et al.*,  
pp. 2657-2662.  
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Dr Catarina Bessa from *RSC  
Med. Chem.*, 2024, 15, 2657.

## REVIEWS

2585

### Recent insights of PROTAC developments in inflammation-mediated and autoimmune targets: a critical review

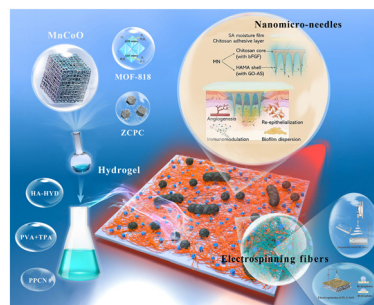
Mary Sravani Galla, Nitika Sharma, Priyanka Mishra and Nagula Shankaraiah\*



2601

### Current and promising applications of MOF composites in the healing of diabetes wounds

Li-Er Deng, Yuzhi Qiu, Yana Zeng, Jiafeng Zou, Abhinav Kumar,\* Ying Pan,\* Alireza Nezamzadeh-Ejhiéh, Jianqiang Liu and Xingyan Liu\*



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Elemental answers

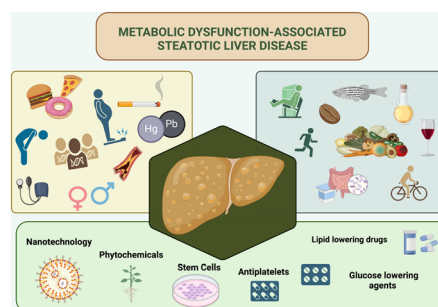


## REVIEWS

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### A comprehensive framework for managing metabolic dysfunction-associated steatotic liver disease: analyzing novel risk factors and advances in nanotechnology-based treatments and diagnosis

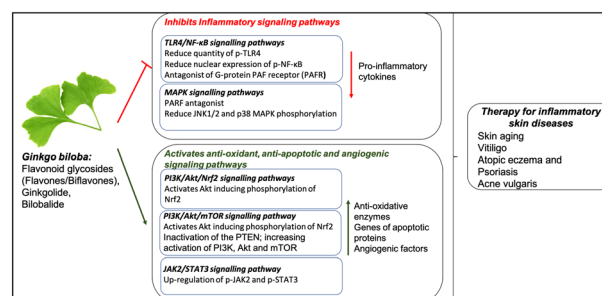
Lucia M. Chávez-López, Gabriela I. Carballo-López, Karina del Carmen Lugo-Ibarra\* and Ana B. Castro-Ceseña\*



2643

### From traditional medicine to nanomedicine: potential of *Ginkgo biloba* extracts in treating inflammatory skin diseases

Itisha Chummun Phul, Andrea Gómez-Llonín and Archana Bhaw-Luximon\*

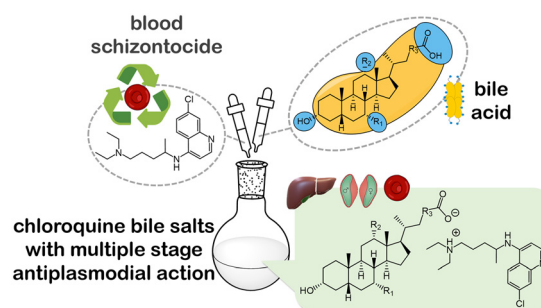


## RESEARCH ARTICLES

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### “Seasoning” antimalarial drugs' action: chloroquine bile salts as novel triple-stage antiplasmodial hits

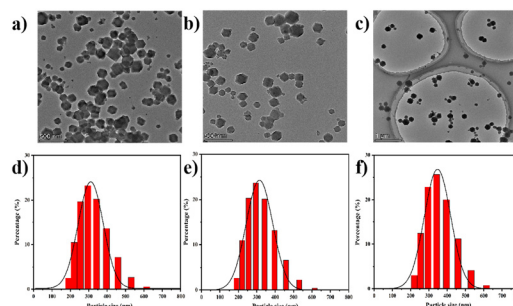
Ana Teresa Silva, Isabel Oliveira, Denise Duarte, Diana Moita, Miguel Prudêncio, Fátima Nogueira, Ricardo Ferraz, Eduardo Figueira Marques and Paula Gomes\*



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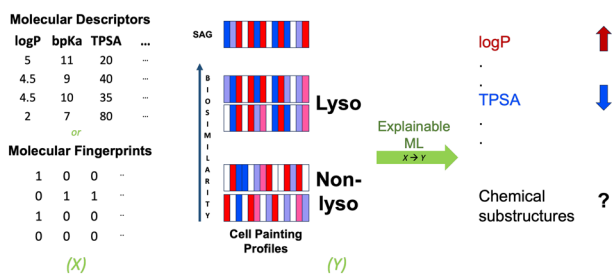
### Responsive ZIF-90 nanocomposite material: targeted delivery of 10-hydroxycamptothecine to enhance the therapeutic effect of colon cancer (HCT116) cells

Ji-Chao Guo, Shi-Hui Deng, Shu-Min Zhou, Xuan Zhou, Jiajia Du, Si-Han Zhou, Qi-Hua Zhao, Zhong-Yan Cai, Xiaoxia Ren\* and Ming-jin Xie\*



## RESEARCH ARTICLES

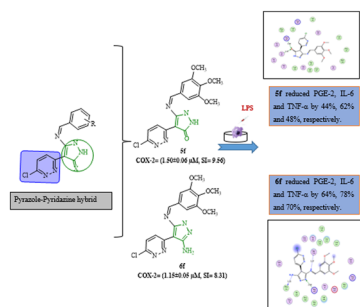
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### Identification of lysosomotropism using explainable machine learning and morphological profiling cell painting data

Aishvarya Tandon, Anna Santura, Herbert Waldmann,\* Axel Pahl\* and Paul Czodrowski\*

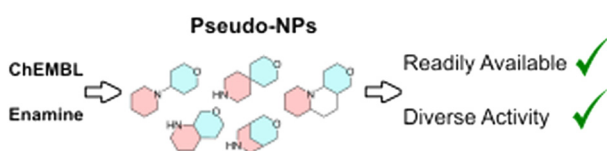
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### New pyrazole-pyridazine hybrids as selective COX-2 inhibitors: design, synthesis, molecular docking, *in silico* studies and investigation of their anti-inflammatory potential by evaluation of TNF- $\alpha$ , IL-6, PGE-2 and NO in LPS-induced RAW264.7 macrophages

Eman O. Osman,\* Nadia A. Khalil, Alaa Magdy and Yara El-Dash

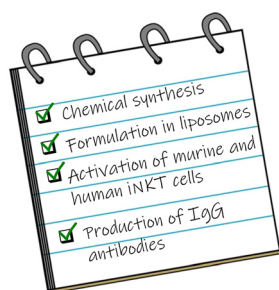
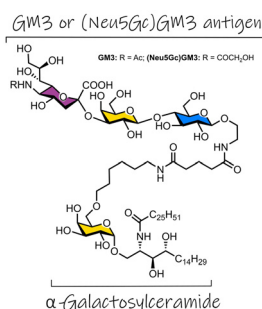
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### Identification of readily available pseudo-natural products

Axel Pahl, Oleksandr O. Grygorenko, Ivan S. Kondratov and Herbert Waldmann\*

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### Chemical synthesis and immunological evaluation of cancer vaccines based on ganglioside antigens and $\alpha$ -galactosylceramide

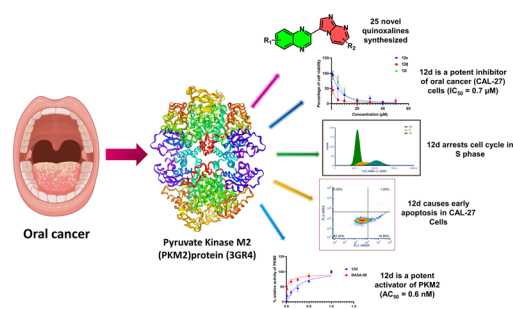
Cecilia Romanò,\* Hao Jiang, Sahar Tahvili, Peng Wei, Ulrik B. Keiding, Gael Clergeaud, Sarah Line Skovbakke, Anne Louise Blomberg, Lise Hafkenscheid, Jonas R. Henriksen, Thomas L. Andresen, Steffen Goletz, Anders E. Hansen, Dennis Christensen and Mads H. Clausen\*



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## Targeted suppression of oral squamous cell carcinoma by pyrimidine-tethered quinoxaline derivatives

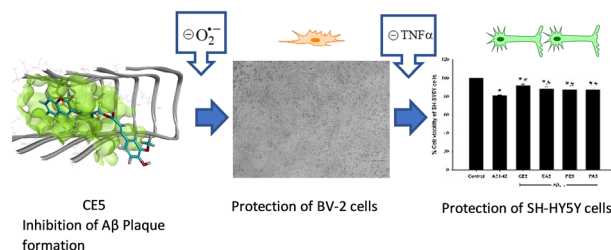
Asmita Choithramani, Rudradip Das, Gourav Bothra, Priyanka Patel Vatsa, Venkatesh Muthukumar, Bombothu Kavya Sai Bhuvana, Saumya Kapoor, Deepshika Moola, Moumita Ghosh Chowdhury, Amit Mandoli\* and Amit Shard\*



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## Discovery of novel coumarin triazolyl and phenoxyphenyl triazolyl derivatives targeting amyloid beta aggregation-mediated oxidative stress and neuroinflammation for enhanced neuroprotection

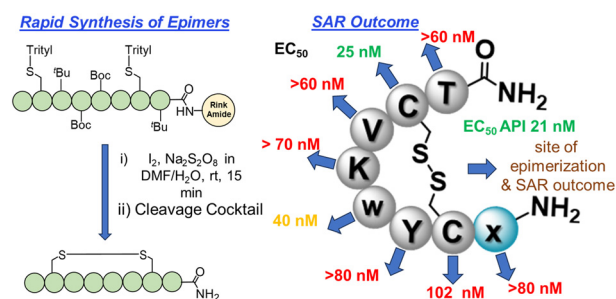
Satsawat Visansirikul, Suthira Yanaso, Yingrak Boondam, Kanjanawadee Prasittisa, Brompoj Prutthiwanasan, Sumet Chongruchiroj and Kittisak Sripha\*



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## On-resin synthesis of Lanreotide epimers and studies of their structure–activity relationships

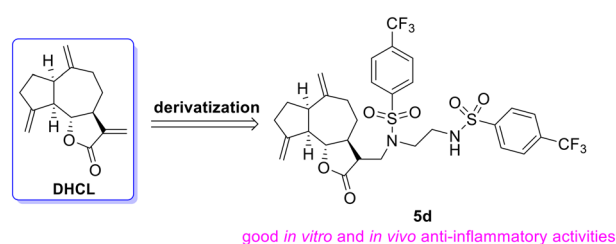
Arnab Chowdhury, Nitesh Mani Tripathi, Rohit Jadav, Vinod Gour, Parva Purohit and Anupam Bandyopadhyay\*



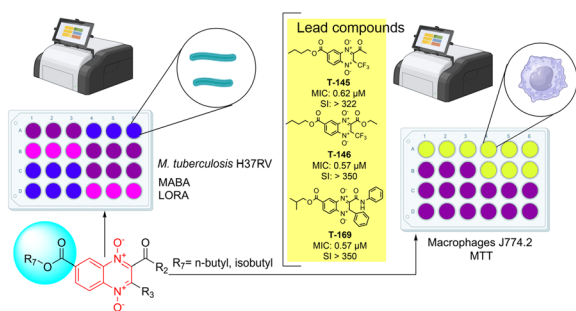
2773

## Development of new dehydrocostuslactone derivatives for treatment of atopic dermatitis via inhibition of the NF-κB signaling pathway

Xiaoyi Li, Cheng Lu, Wenxia Du, Qiuping Zou, Ruirui Wang, Chunyan Hu, Yanping Li,\* Yi Zhang\* and Zewei Mao\*



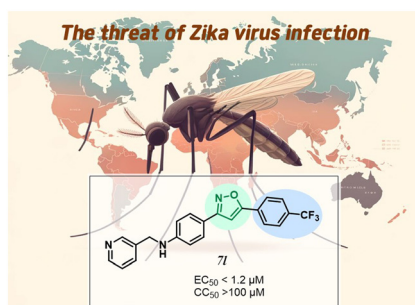
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## Expanding the chemical space of ester of quinoxaline-7-carboxylate 1,4-di-N-oxide derivatives as potential antitubercular agents

Alonzo González-González, Oscar Sánchez-Sánchez, Baojie Wan, Scott Franzblau, Isidro Palos, José C. Espinoza-Hicks, Adriana Moreno-Rodríguez, Ana Verónica Martínez-Vázquez, Edgar E. Lara-Ramírez, Eyra Ortiz-Pérez, Alma D. Paz-González and Gildardo Rivera\*

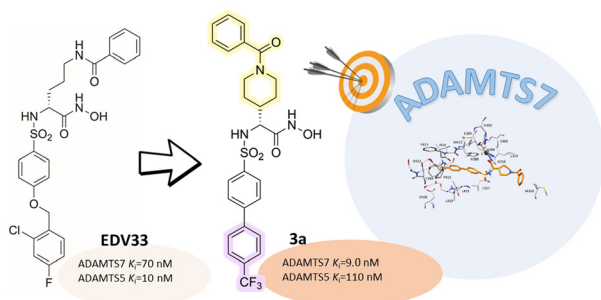
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## Discovery and structure-activity relationship study of novel isoxazole-based small molecules targeting Zika virus infections

Berehe Solomon Girmay, Sileshi Abera Ayele, Syed Azeem Abbas, Su San Jang, Eunhye Jung, Jin Soo Shin, Soo Bong Han\* and Hyejin Kim\*

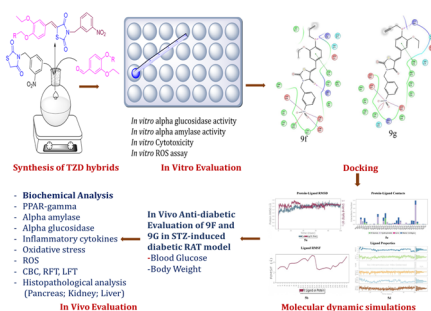
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## Design, synthesis and biological evaluation of arylsulfonamides as ADAMTS7 inhibitors

Doretta Cuffaro, Tina Burkhard, Bianca Laura Bernardoni, Riccardo Di Leo, Xiaohan Zhang, Salvatore Galati, Tiziano Tuccinardi, Marco Macchia, Armando Rossello, Salvatore Santamaria,\* Rens de Groot\* and Elisa Nuti\*

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## Thiazolidine-2,4-dione hybrids as dual alpha-amylase and alpha-glucosidase inhibitors: design, synthesis, *in vitro* and *in vivo* anti-diabetic evaluation

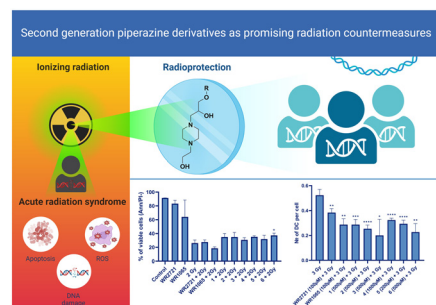
Gurpreet Singh, Rajveer Singh, Vikramdeep Monga\* and Sidharth Mehan\*



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## Second-generation piperazine derivatives as promising radiation countermeasures

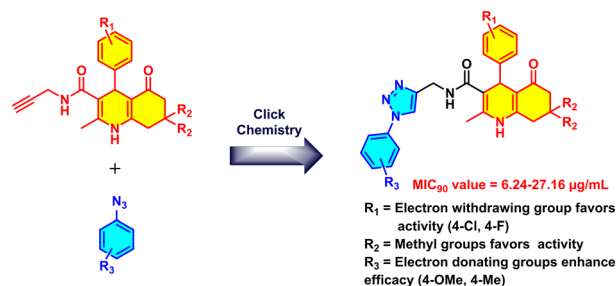
Vojtěch Chmil, Natálie Živná, Marcela Milanová, Alžběta Filipová, Jaroslav Pejchal, Lukáš Prchal, Darina Muthná, Vít Řeháček, Martina Řezáčová, Jan Marek, Aleš Tichý and Radim Havelek\*



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## Antitubercular evaluation of dihydropyridine-triazole conjugates: design, synthesis, *in vitro* screening, SAR and *in silico* ADME predictions

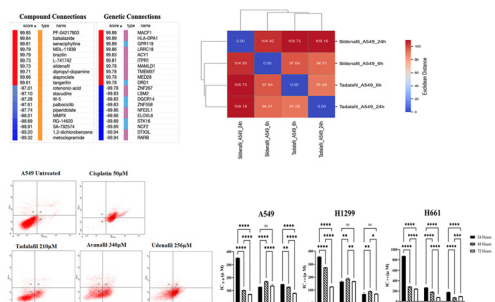
Ajay Kishor Kushawaha, Arvind Kumar Jaiswal, Jay Gupta, Sarita Katiyar, Alisha Ansari, Hemlata Bhatt, Sandeep K. Sharma, Abhijit Deb Choudhury, Rabi Sankar Bhatta, Bhupendra N. Singh\* and Koneni V. Sashidhara\*



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## Integrating computational and experimental chemical biology revealed variable anticancer activities of phosphodiesterase 5 inhibitors (PDE5i) in lung cancer

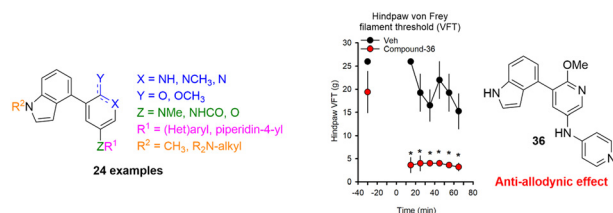
Sanaa K. Bardaweel,\* Rola AlOmari and Rima Hajjo



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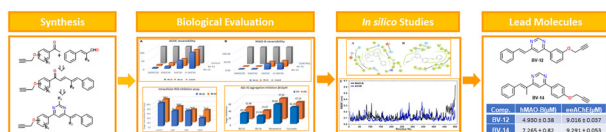
## Synthesis of diversely substituted pyridin-2(1H)-ones and *in vivo* evaluation of their anti-allodynic effect on cutaneous inflammatory mechanical allodynia

Théo Frazier, Pauline Murail, Arthur Boulangé, Nazim Chalane, Francis Giraud, Alain Artola,\* Radhouane Dallel,\* Fabrice Anizon\* and Pascale Moreau\*



## RESEARCH ARTICLES

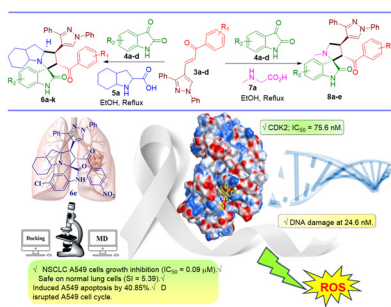
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### Phenylstyrylpyrimidine derivatives as potential multipotent therapeutics for Alzheimer's disease

Bharti Devi, Kailash Jangid, Vijay Kumar, Tania Arora, Naveen Kumar, Ashish Ranjan Dwivedi, Jyoti Parkash and Vinod Kumar\*

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### Exploiting spirooxindoles for dual DNA targeting/ CDK2 inhibition and simultaneous mitigation of oxidative stress towards selective NSCLC therapy; synthesis, evaluation, and molecular modelling studies

Mohammad Shahidul Islam, Refaah M. Al-Jassas, Abdullah Mohammed Al-Majid,\* Matti Haukka, Mohamed S. Nafie, Marwa M. Abu-Serie, Mohamed Teleb,\* Amira El-Yazbi, Abdul Majeed Abdullah Alayyaf, Assem Barakat\* and Marwa M. Shaaban

## CORRECTION

2959

### Correction: Rosavin improves insulin resistance and alleviates hepatic and kidney damage *via* modulating the cGAS-STING pathway and autophagy signaling in HFD/STZ-induced T2DM animals

Hebatallah S. Ali,\* Hiba S. Al-Amodi, Shaimaa Hamady, Marian M. S. Roushdy, Amany Helmy Hasanin, Ghada Ellithy, Rasha A. Elmansy, Hagir H. T. Ahmed, Enshrah M. E. Ahmed, Doaa M. A. Elzoghby, Hala F. M. Kamel, Ghida Hassan, Hind A. ElSawi, Laila M. Farid, Mariam B. Abouelkhair, Eman K. Habib, Mohamed Esawie, Heba Fikry, Lobna A. Saleh and Marwa Matboli

