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IN THIS ISSUE

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Cover
See Paula Gomes *et al.*, pp. 2657–2662.
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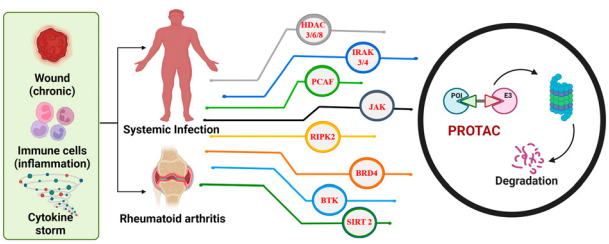
REVIEWS

2585

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

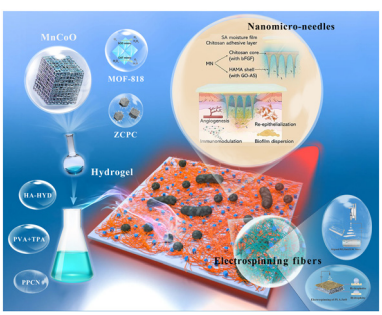
Mary Sravani Galla, Nitika Sharma, Priyanka Mishra and Nagula Shankaraiah*



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-Ejhieh, Jianqiang Liu and Xingyan Liu*



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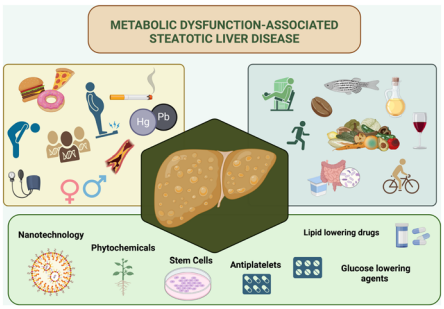
REVIEWS

2622

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

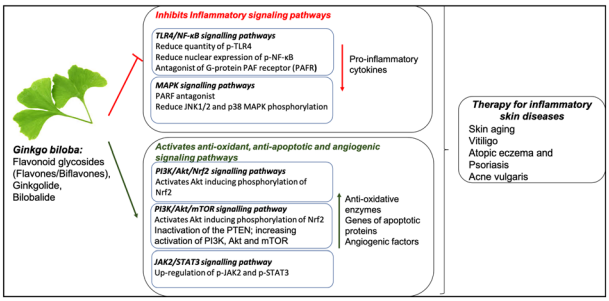
Lucia M. Chávez-López, Gabriela I. Carballo-López, Karina del Carmen Lugo-Ibarra* and Ana B. Castro-Ceseña*



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*

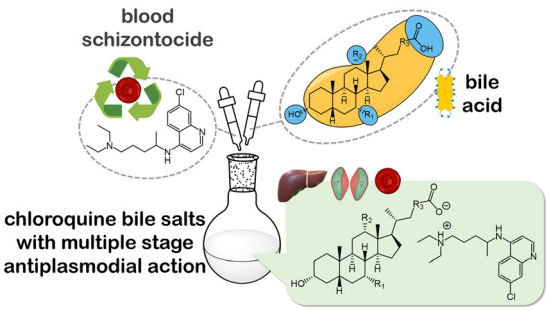


RESEARCH ARTICLES

2657

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

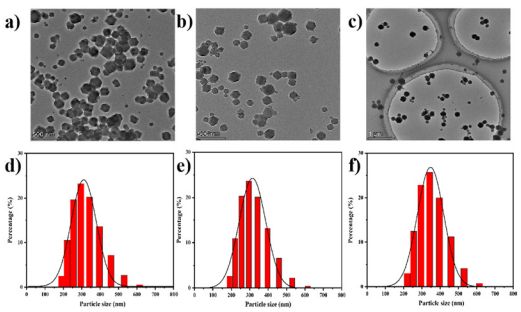
Ana Teresa Silva, Isabel Oliveira, Denise Duarte, Diana Moita, Miguel Prudêncio, Fátima Nogueira, Ricardo Ferraz, Eduardo Figueira Marques and Paula Gomes*



2663

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*



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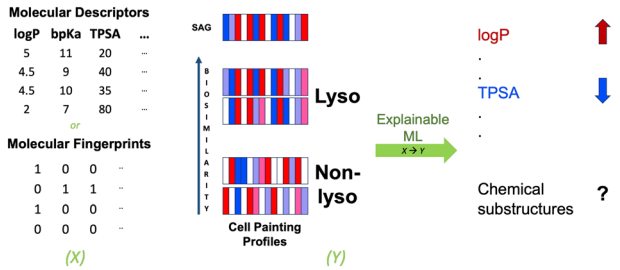
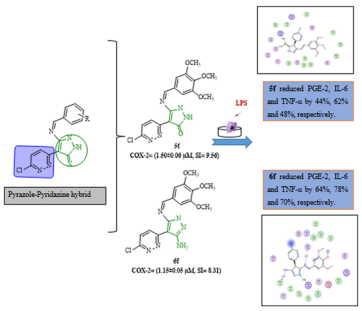


Identification of lysosomotropism using explainable machine learning and morphological profiling cell painting data

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

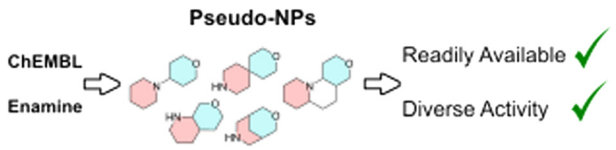
2692



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-α, IL-6, PGE-2 and NO in LPS-induced RAW264.7 macrophages

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

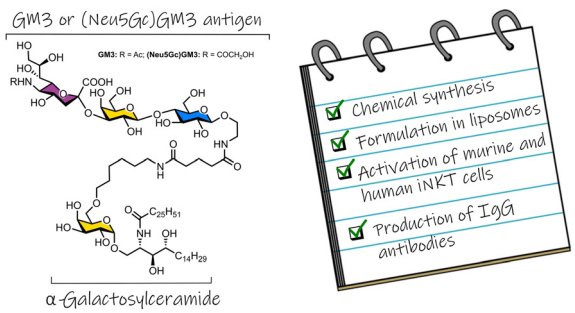
2709



Identification of readily available pseudo-natural products

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

2718



Chemical synthesis and immunological evaluation of cancer vaccines based on ganglioside antigens and α-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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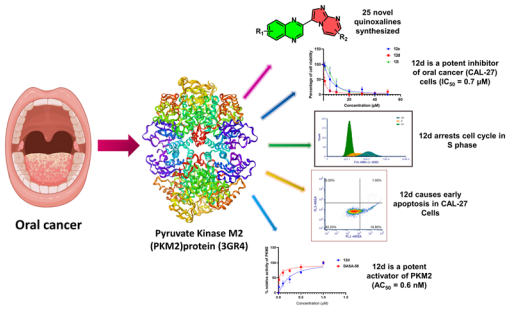
RESEARCH ARTICLES

2729

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

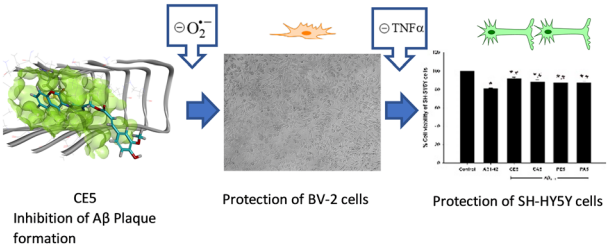
Asmita Choithramani, Rudradip Das, Gourav Bothra, Priyanka Patel Vatsa, Venkatesh Muthukumar, Bombothu Kavya Sai Bhuvana, Saumya Kapoor, Deepshika Moola, Moumita Ghosh Chowdhury, Amit Mandoli* and Amit Shard*



2745

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

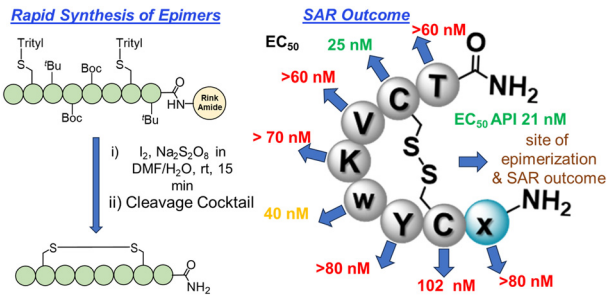
Satsawat Visansirikul, Suthira Yanaso, Yingrak Boondam, Kanjanawadee Prasittisa, Brompoj Prutthiwanasan, Sumet Chongruchiroj and Kittisak Sripha*



2766

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

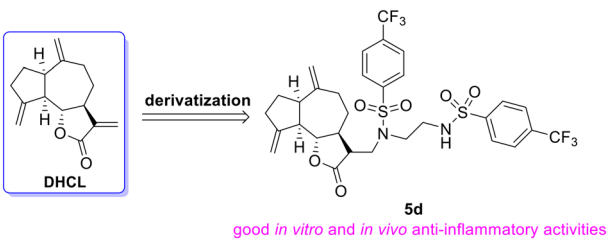
Arnab Chowdhury, Nitesh Mani Tripathi, Rohit Jadav, Vinod Gour, Parva Purohit and Anupam Bandyopadhyay*



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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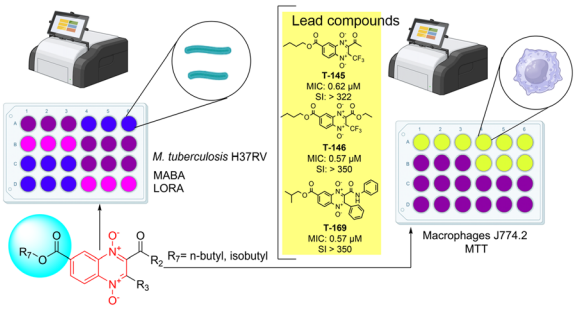
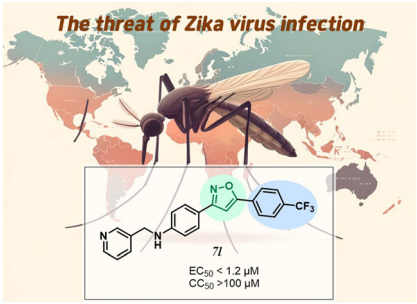


Expanding the chemical space of ester of quinoxaline-7-carboxylate 1,4-di-*N*-oxide derivatives as potential antitubercular agents

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*

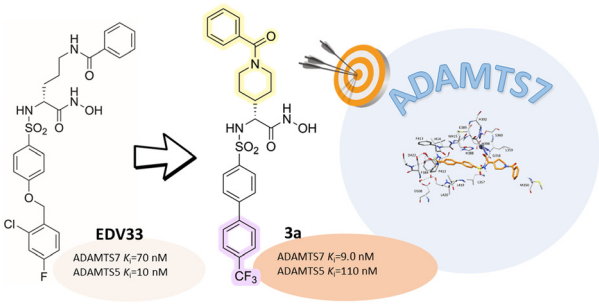
2792



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*

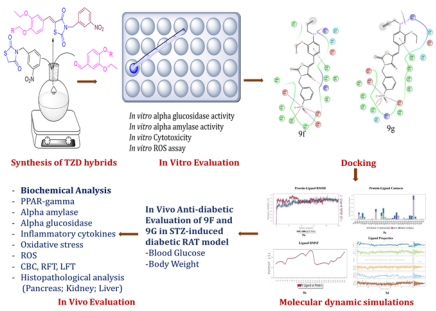
2806



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*

2826



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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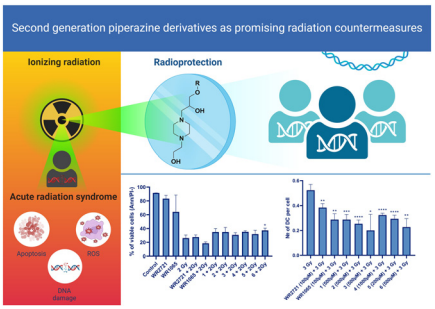
2855

Second-generation piperazine derivatives as promising radiation countermeasures

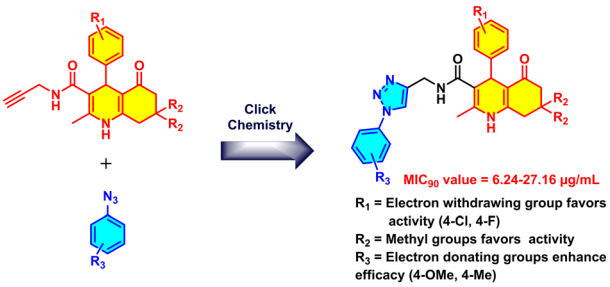
Vojtěch Chmil, Natálie Živná, Marcela Milanová, Alžběta Filipová, Jaroslav Pejchal, Lukáš Prchal, Darina Muthná, Vít Řeháček, Martina Řezáčová, Jan Marek, Aleš Tichý and Radim Havelek*



2867

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

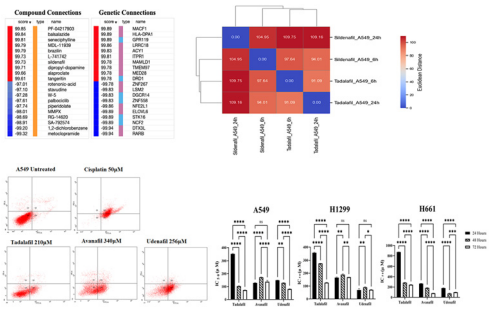
Ajay Kishor Kushawaha, Arvind Kumar Jaiswal, Jay Gupta, Sarita Katiyar, Alisha Ansari, Hemlata Bhatt, Sandeep K. Sharma, Abhijit Deb Choudhury, Rabi Sankar Bhatta, Bhupendra N. Singh* and Koneni V. Sashidhara*



2882

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

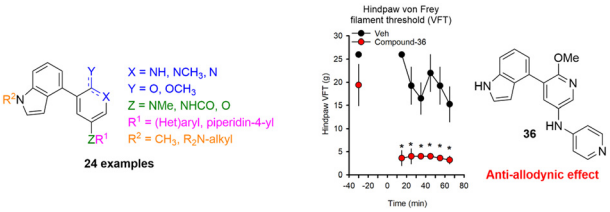
Sanaa K. Bardaweel,* Rola AlOmari and Rima Hajjo



2900

Synthesis of diversely substituted pyridin-2(1*H*)-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*



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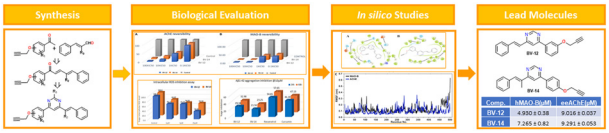
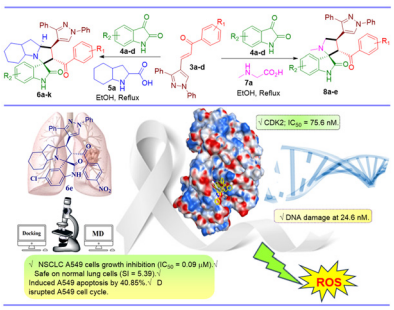


Phenylstyrylpyrimidine derivatives as potential multipotent therapeutics for Alzheimer's disease

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

2937



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

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