

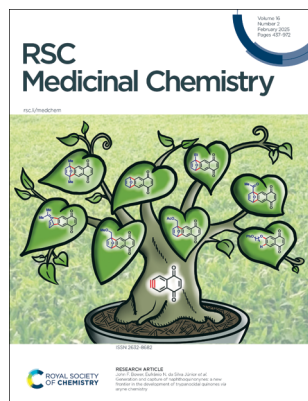
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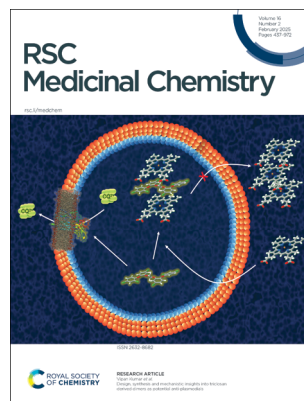
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IN THIS ISSUE

ISSN 2632-8682 CODEN RMCSCX 16(2) 437-972 (2025)



Cover
See John F. Bower, Eufirnio N. da Silva Júnior *et al.*, pp. 694–708.
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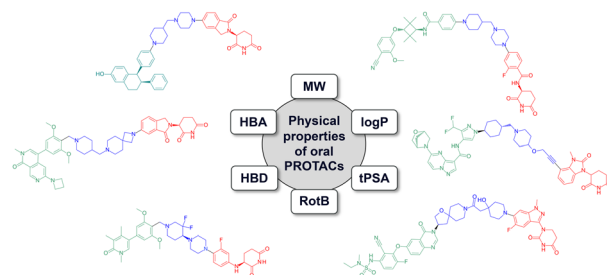
Inside cover
See Vipin Kumar *et al.*, pp. 709–720.
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OPINIONS

449

Property-based optimisation of PROTACs

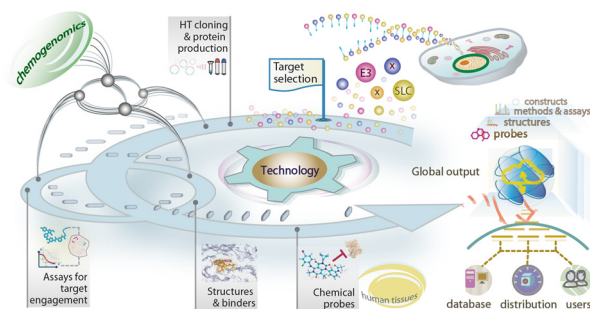
James S. Scott,* Iacovos N. Michaelides and Markus Schade



457

Toward target 2035: EUbOPEN - a public-private partnership to enable & unlock biology in the open

C. Tredup, S. Ackloo, H. Beck, P. J. Brown, A. N. Bullock, A. Ciulli, I. Dikic, K. Edfeldt, A. M. Edwards, J. M. Elkins, H. F. Farin, E. A. Fon, M. Gstaiger, J. Günther, A.-L. Gustavsson, S. Häberle, L. Isigkeit, K. V. M. Huber, A. Kotschy, O. Krämer, A. R. Leach, B. D. Marsden, H. Matsui, D. Merk, F. Montel, M. P. C. Mulder, S. Müller, D. R. Owen, E. Proschak, S. Röhm, A. Stolz, M. Sundström, F. von Delft, T. M. Willson, C. H. Arrowsmith* and S. Knapp*





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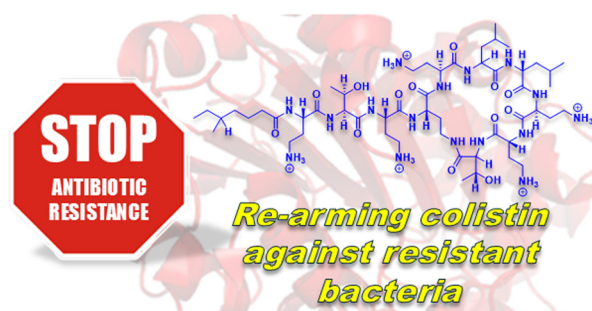
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465

Adjuvant strategies to tackle *mcr*-mediated polymyxin resistance

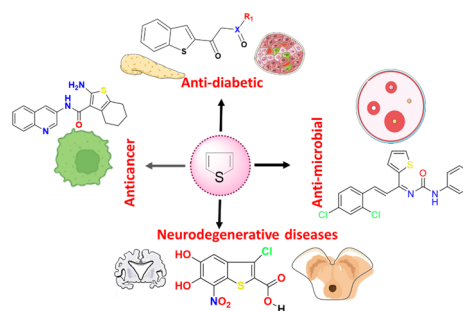
Madison R. Nuske, Junlang Zhong, Renjie Huang, Vijayalekshmi Sarojini, Jack L. Y. Chen, Christopher J. Squire, Mark A. T. Blaskovich and Ivanhoe K. H. Leung*



481

Medicinal chemistry-based perspectives on thiophene and its derivatives: exploring structural insights to discover plausible druggable leads

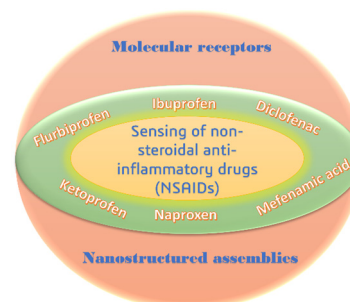
Shikha Thakur, Devendra Kumar, Shivani Jaiswal, Kapil Kumar Goel, Pramod Rawat, Vivek Srivastava, Sonia Dhiman, Hemant R. Jadhav* and Ashish Ranjan Dwivedi*



511

Advances in detecting non-steroidal anti-inflammatory drugs (NSAIDs) using molecular receptors and nanostructured assemblies

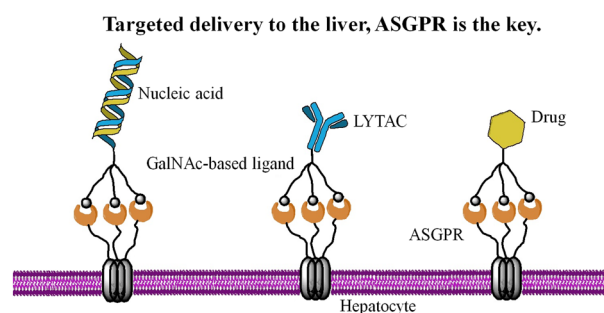
Avijit Kumar Das*



525

Hepatocyte targeting *via* the asialoglycoprotein receptor

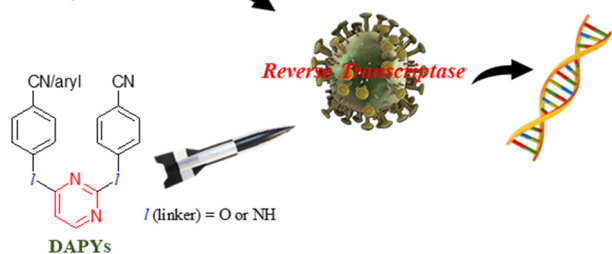
Fabricio Ramírez-Cortés and Petra Ménová*



REVIEWS

545

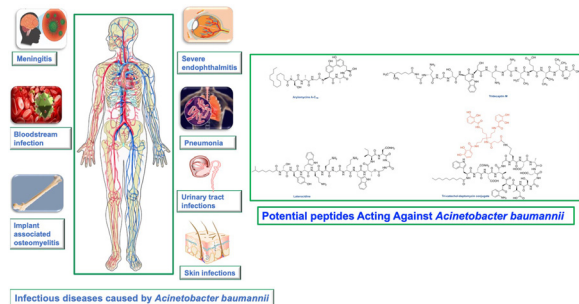
Diaryltriazines



Development of diarylpyrimidine derivatives (& other heterocycles) as HIV-1 and WT RT inhibitors

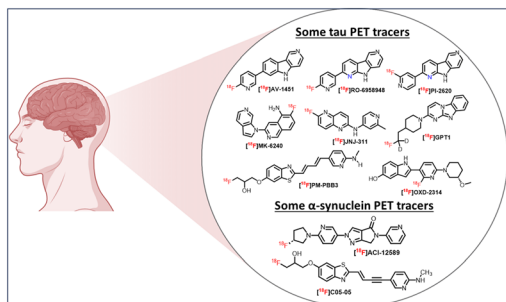
Atukuri Dorababu

561

Natural peptides and their synthetic congeners acting against *Acinetobacter baumannii* through the membrane and cell wall: latest progress

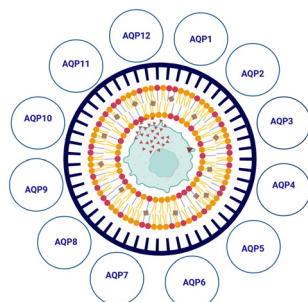
Gautam Kumar*

605

Strategies of positron emission tomography (PET) tracer development for imaging of tau and α -synuclein in neurodegenerative disorders

Shekar Mekala,* You Wu and Yue-Ming Li*

640



Distinctive roles of aquaporins and novel therapeutic opportunities against cancer

Dharmendra Kumar Yadav, Desh Deepak Singh and Dongyun Shin*

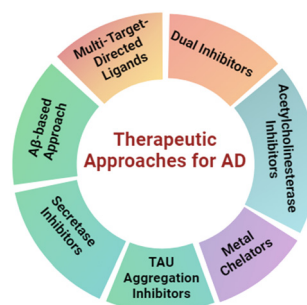


REVIEWS

652

Recent advancements in the therapeutic approaches for Alzheimer's disease treatment: current and future perspective

Amit Sharma, Santosh Rudrawar, Sandip B. Bharate and Hemant R. Jadhav*



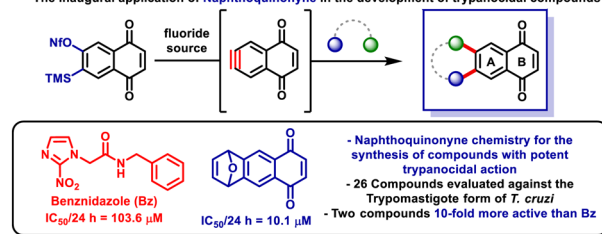
RESEARCH ARTICLES

694

Generation and capture of naphthoquinonyne: a new frontier in the development of trypanocidal quinones via aryne chemistry

Laura P. R. Figueroa, Renato L. de Carvalho, Renata G. Almeida, Esther R. S. Paz, Emilly B. T. Diogo, Maria H. Araujo, Warley S. Borges, Victor F. S. Ramos, Rubem F. S. Menna-Barreto, James M. Wood, John F. Bower* and Eufrânio N. da Silva Júnior*

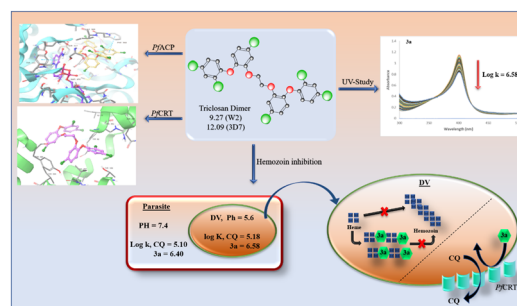
The inaugural application of Naphthoquinonyne in the development of trypanocidal compounds



709

Design, synthesis and mechanistic insights into triclosan derived dimers as potential anti-plasmodials

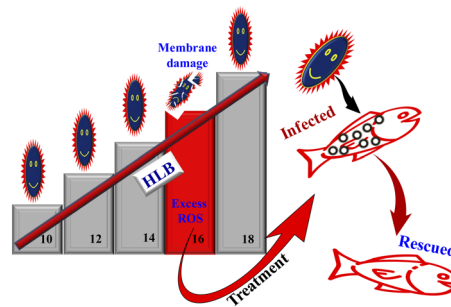
Shekhar, Shefali Chowdhary, Joel Mosnier, Isabelle Fonta, Bruno Pradines and Vipin Kumar*



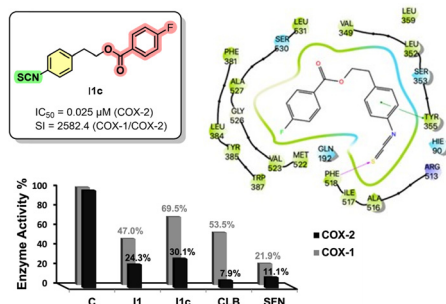
721

Synthesis of cationic *N*-acylated thiazolidine for selective activity against Gram-positive bacteria and evaluation of *N*-acylation's role in membrane-disrupting activity

Aleena Pious, Vignesh Venkatasubramanian, Dharshini Karnan Singaravelu, Subburethinam Ramesh, Fuad Ameen and Anbazhagan Veerappan*



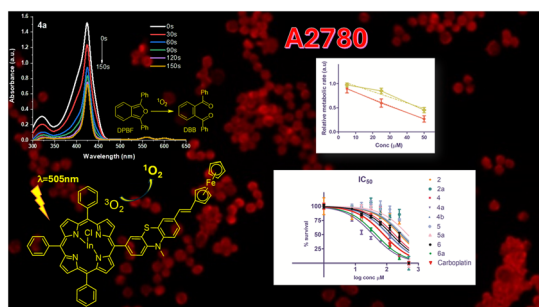
732



Synthesis, *in silico* and bio-evaluation studies of new isothiocyanate derivatives with respect to COX inhibition and H₂S release profiles

Yakup Berkay Yilmaz, Tuğba Güngör,* Serhat Dönmez, Hazal Nazlıcan Atalay, Pınar Siyah, Serdar Durdağlı, Mehmet Ay* and Tugba Boyunegmez Tumer*

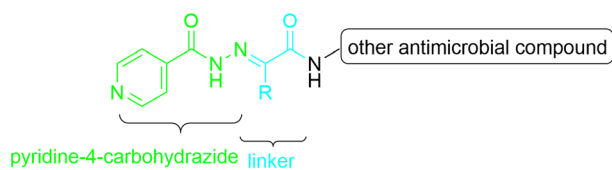
747



meso-Substituted AB₃-type phenothiazinyl porphyrins and their indium and zinc complexes photosensitising properties, cytotoxicity and phototoxicity on ovarian cancer cells

Brém Balázs, Bianca Stoean (Vasile), Éva Molnár, Eva Fischer-Fodor, Ovidiu Bălăcescu, Raluca Borlan, Monica Focsan, Adriana Grozav, Patriciu Achimaş-Cadariu, Emese Gál* and Luiza Gaina*

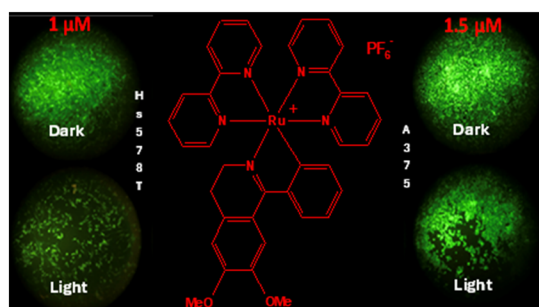
767



Enhancing the antimycobacterial efficacy of pyridine-4-carbohydrazide: linkage to additional antimicrobial agents *via* oxocarboxylic acids

Václav Pflégr, Klára Konečná, Jiřina Stolaříková, Jan Ůsterreicher, Ondřej Jandourek and Martin Krátký*

779



Light enhanced cytotoxicity and antitumoral effect of a ruthenium-based photosensitizer inspired from natural alkaloids

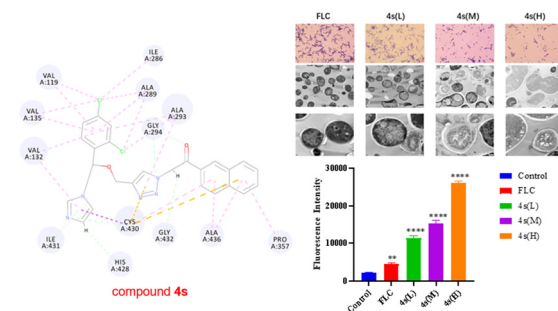
Gennaro Sanità, Maria Laura Alfieri, Barbara Carrese, Serena Damian, Vincenza Mele, Gaetano Cali, Brigida Silvestri, Sebastiano Marra, Susan Mohammadi, Giuseppina Luciani, Paola Manini* and Annalisa Lamberti*



791

Synthesis and antifungal evaluation of new azole derivatives containing 1,2,3-triazole

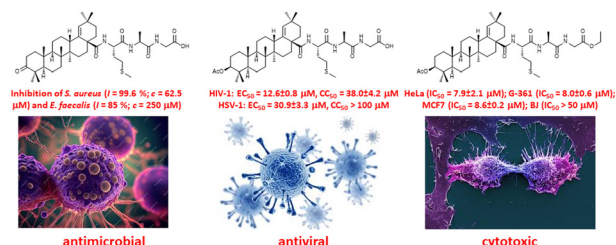
Zhengxiao Huang, Hongjie Chen, Xiao Zhang, Ruirui Wang,* Chunyan Hu* and Zewei Mao*



801

Amides of moronic acid and morolic acid with the tripeptides MAG and GAM targeting antimicrobial, antiviral and cytotoxic effects

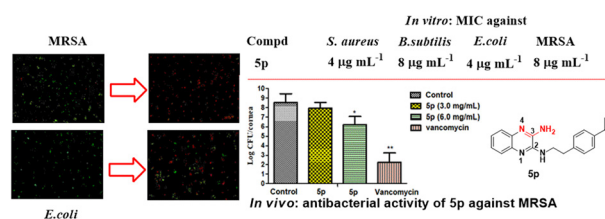
Uladzimir Bildziukevich, Lucie Černá, Jana Trylčová, Marie Kvasnicová, Lucie Rárová, David Šaman, Petra Lovecká, Jan Weber and Zdeněk Wimmer*



812

Antibacterial activity of the structurally novel C-2 amine-substituted analogues based on quinoxaline

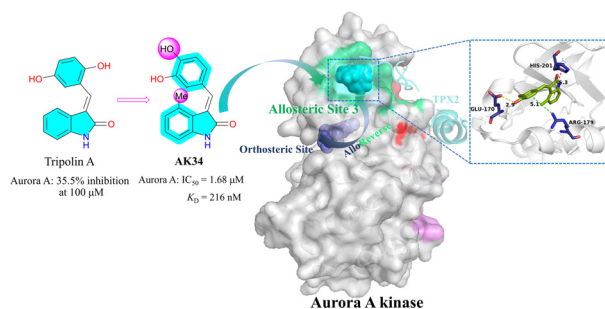
Yuting Liu, Pengju Yang, Yunyun Zhou and Zhiwen Zhou*



826

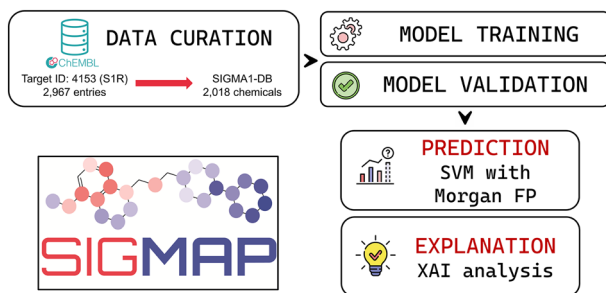
Design and synthesis of (E)-3-benzylideneindolin-2-one derivatives as potential allosteric inhibitors of Aurora A kinase

YongLai Jiao, Jie Zhong, JinFang Xu, ShaoBo Ning, TaiGang Liang,* MingZhu Zhao* and Jian Zhang*



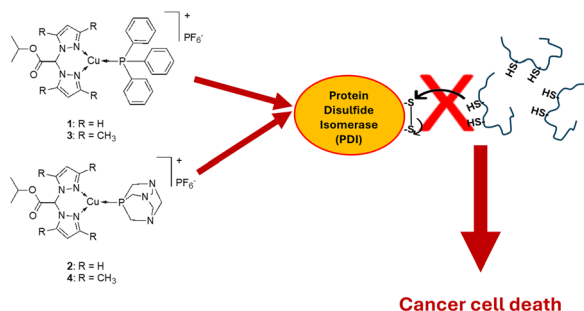
RESEARCH ARTICLES

835

**SIGMAP: an explainable artificial intelligence tool for SIGMA-1 receptor affinity prediction**

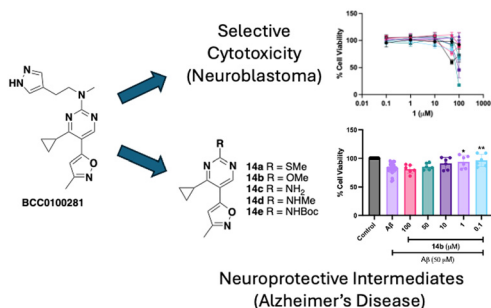
Maria Cristina Lomuscio, Nicola Corriero, Vittoria Nanna, Antonio Piccinno, Michele Saviano, Rosa Lanzilotti, Carmen Abate, Domenico Alberga* and Giuseppe Felice Mangiatordi*

849

**Anticancer potential of copper(I) complexes based on isopropyl ester derivatives of bis(pyrazol-1-yl) acetate ligands**

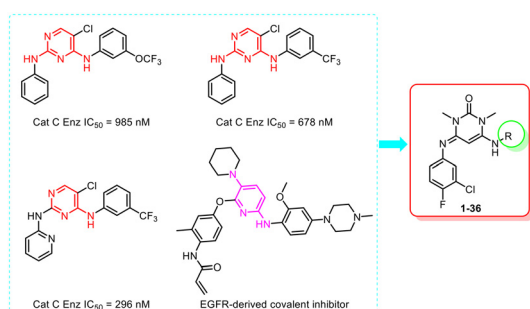
Maura Pellei, Carlo Santini,* Miriam Caviglia, Jo' Del Gobbo, Chiara Battocchio, Carlo Meneghini, Simone Amatori, Chiara Donati, Eleonora Zampieri, Valentina Gandin* and Cristina Marzano

862

**Synthesis and biological characterization of a 17β hydroxysteroid dehydrogenase type 10 (17β-HSD10) inhibitor**

Louise F. Dow, Rasangi Pathirage, Helen E. Erickson, Edrees Amani, Donald R. Ronning and Paul C. Trippier*

876

**Design and synthesis of novel cathepsin C inhibitors with anti-inflammatory activity**

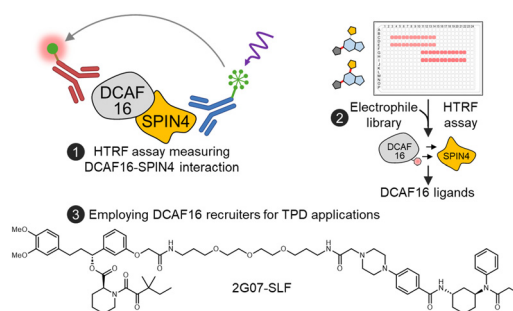
Xiaobao Shen, Nan Li, Miao Liu, Xuanzheng Han, Yazhi Wang, Jingwen Jia, Fufang Wu,* Hongwei Chen* and Xinhua Liu*



892

Exploiting the DCAF16–SPIN4 interaction to identify DCAF16 ligands for PROTAC development

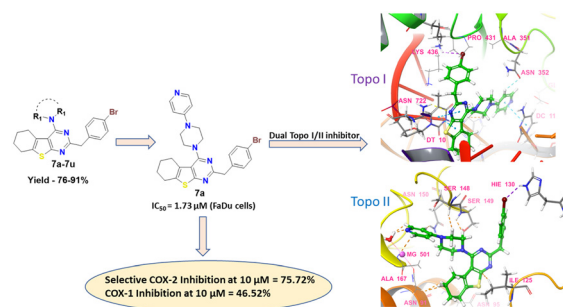
Isabella A. Riha, Miguel A. Campos, Xiaokang Jin, Fiona Y. Wang, Chenlu Zhang, Sara F. Dunne, Benjamin F. Cravatt and Xiaoyu Zhang*



907

2-(4-Bromobenzyl) tethered 4-amino aryl/alkyl-5,6,7,8-tetrahydrobenzo[4,5]thieno[2,3-d]pyrimidines: design, synthesis, anticancer assessment *via* dual topoisomerase-I/II inhibition, and *in silico* studies

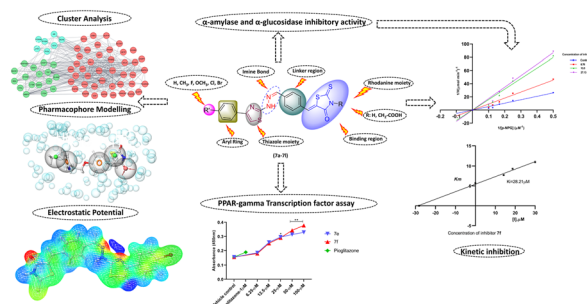
Sahil Arora, Bhagyshree Patra, Isha Dhamija, Santosh Kumar Guru and Raj Kumar*



927

Novel rhodanine–thiazole hybrids as potential antidiabetic agents: a structure-based drug design approach

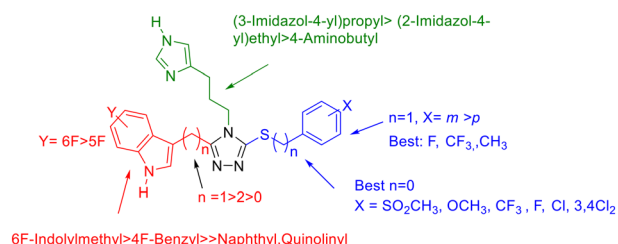
Shankar Gharge, Shankar G. Alegaon,* Shriram D. Ranade, Rohini S. Kavalapure and B. R. Prashantha Kumar



945

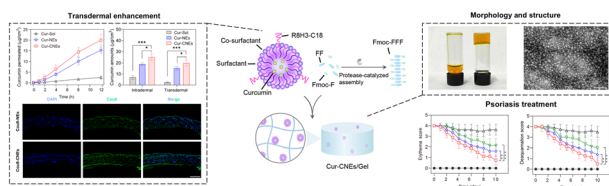
3-Thio-3,4,5-trisubstituted-1,2,4-triazoles: high affinity somatostatin receptor-4 agonist synthesis and structure–activity relationships

A. Michael Crider,* Audrey Hospital, Karin E. Sandoval, William L. Neumann, Stephen Kukielski, Lejla Garic, Kristen Ingold, Matthew Dunahoo, Khush N. Srabony, Rafael Frare, Olivia Slater, Nathan Peel, Maria Kontoyianni and Ken A. Witt



RESEARCH ARTICLES

961



Enhanced skin penetration of curcumin by a nanoemulsion-embedded oligopeptide hydrogel for psoriasis topical therapy

Kehan Chen, Hui Yang, Guo Xu, Yunhan Hu, Xue Tian, Song Qin* and Tianyue Jiang*

CORRECTION

970

Correction: Chiral hydroxymethyl-1*H*,3*H*-pyrrolo[1,2-*c*]thiazoles: the search for selective p53-activating agents for colorectal cancer therapy

Mees M. Hendrixx, Adelino M. Pereira, Ana B. Pereira, Carla S. C. Carvalho, João L. P. Ribeiro, Maria I. L. Soares, Lucília Saraiva* and Teresa M. V. D. Pinho e Melo*

