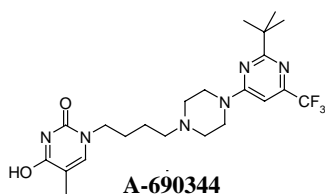


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Synthesis and SAR of highly potent and selective dopamine D₃-receptor antagonists: 1*H*-Pyrimidin-2-one derivatives pp 490–494

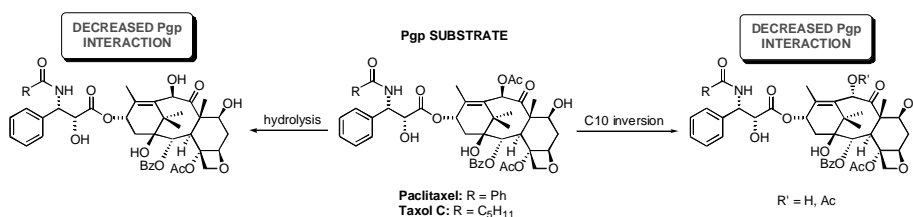
Hervé Geneste,* Gisela Backfisch, Wilfried Braje, Jürgen Delzer, Andreas Haupt, Charles W. Hutchins, Linda L. King, Andreas Kling, Hans-Jürgen Teschendorf, Liliane Unger and Wolfgang Wernet



The synthesis and SAR of novel highly potent and selective dopamine D₃-receptor antagonists based on a 1*H*-pyrimidin-2-one scaffold are described. **A-690344** antagonized PD 128907-induced huddling deficits in rat (ED₅₀ 6.1 mg/kg po), a social interaction paradigm.

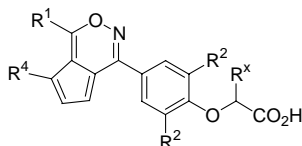
Single-site chemical modification at C10 of the baccatin III core of paclitaxel and Taxol C reduces P-glycoprotein interactions in bovine brain microvessel endothelial cells pp 495–498

Jared T. Spletstoser, Brandon J. Turunen, Kelly Desino, Antonie Rice, Apurba Datta, Dinah Dutta, Jacquelyn K. Huff, Richard H. Himes,* Kenneth L. Audus,* Anna Seelig* and Gunda I. Georg*



PTP-1B inhibitors: Cyclopenta[*d*][1,2]-oxazine derivatives pp 499–502

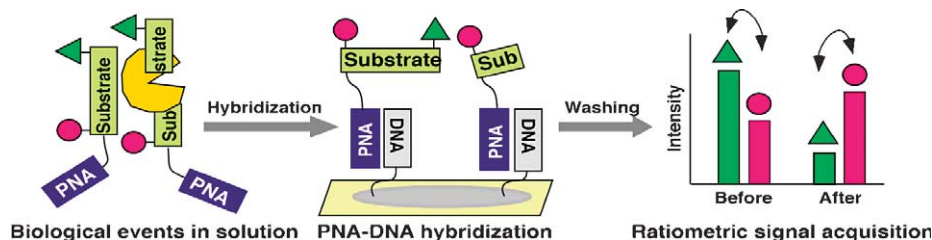
Sung Yun Cho, Ji Yoen Baek, Sang Sub Han, Seung Kyu Kang, Jae Du Ha, Jin Hee Ahn, Jae Don Lee, Kwang Rok Kim, Hyae Gyeong Cheon, Sang Dal Rhee, Sung Don Yang, Gyu Hwan Yon, Chwang Siek Pak and Joong-Kwon Choi*



A PNA–DNA hybridization chip approach for the detection of β -secretase activity

pp 503–506

Shusuke Sano, Kin-ya Tomizaki, Kenji Usui and Hisakazu Mihara*



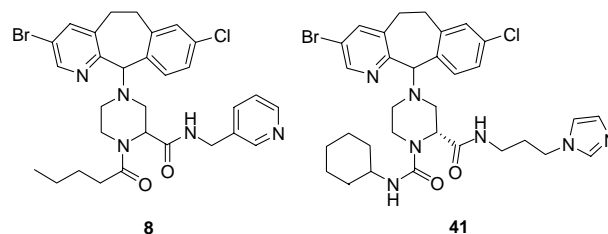
The PNA–DNA complementary hybridization chip technology utilizing a PNA-encoded peptide substrate allowed us to detect β -secretase activity 10 times more sensitively than assays in solution.

**Guiding farnesyltransferase inhibitors from an ECLiPS[®] library to the catalytic zinc**

pp 507–511

Chia-Yu Huang, Tara M. Stauffer, Corey L. Strickland, John C. Reader, He Huang, Ge Li, Alan B. Cooper, Ronald J. Doll, Ashit K. Ganguly, John J. Baldwin and Laura L. Rokosz*

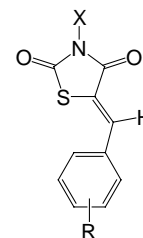
Compounds **8** and **41** are potent analogs of farnesyltransferase inhibitors that were identified from an ECLiPS[®] library screen. X-ray crystallographic analyses of inhibited complexes show that the side-chain pyridyl of **8** and the imidazolyl of **41** coordinate to the active site zinc.

**Quantitative structure–activity analysis of 5-arylidene-2,4-thiazolidinediones as aldose reductase inhibitors**

pp 512–520

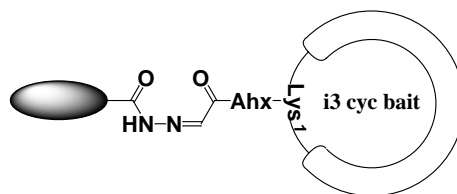
S. V. Sambasivarao, Love K. Soni,* Arun K. Gupta, P. Hanumantharao and S. G. Kaskhedikar

3D-QSAR analysis, Hansch analysis, and Fujita-Ban analysis were performed on a series of 5-arylidene-2,4-thiazolidinediones as aldose reductase inhibitors. The 2D & 3D-QSAR models were generated using 18 compounds and Fujita-Ban analysis models were obtained using 23 compounds. The predictive ability of the resulting 2D and 3D models was evaluated against a test set of 5 compounds. Analyses of results from the present QSAR study inferred that 3rd position of the phenyl ring and acetic acid substitution at *N*-position of thiazolidinediones play a key role in the aldose reductase inhibitory activity.

**Design and synthesis of cyclic and linear peptide-agarose tools for baiting interacting protein partners of GPCRs**

pp 521–524

Sébastien Granier, Frédéric Jean-Alphonse, Hélène Déméné, Gilles Guillon, Robert Pascal* and Christiane Mendre*



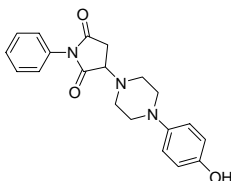
The synthesis of affinity supports designed to identify GPCR partners is reported.



In silico design and synthesis of piperazine-1-pyrrolidine-2,5-dione scaffold-based novel malic enzyme inhibitors

pp 525–528

Y. John Zhang,* Zhaolin Wang, Dennis Sprous and Roustem Nabioullin

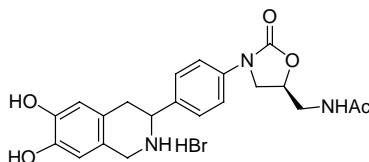


Fragment-based virtual library design and virtual screening have been conducted against malic enzyme (ME) homology model. Compounds from this library have shown submicromolar inhibitory activity against malic enzyme.

**New potential antibacterials: A synthetic route to *N*-aryloxazolidinone/3-aryltetrahydroisoquinoline hybrids**

pp 529–531

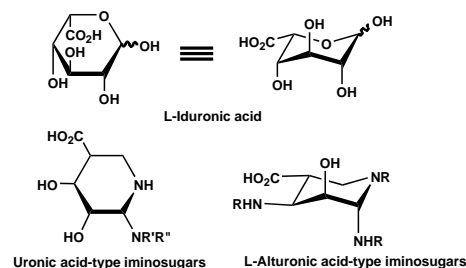
Rosa Griera, Carme Cantos-Llopart, Mercedes Amat, Joan Bosch,* Juan-C. del Castillo and Joan Huguet

**Synthesis and biological evaluation of *gem*-diamine 1-*N*-iminosugars related to L-iduronic acid as inhibitors of heparan sulfate 2-*O*-sulfotransferase**

pp 532–536

Jillian R. Brown, Yoshio Nishimura and Jeffrey D. Esko*

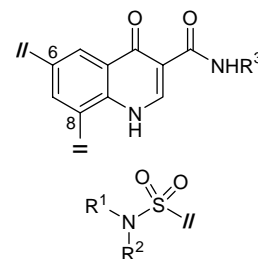
A variety of *gem*-diamine 1-*N*-iminosugars related to L-iduronic acid were synthesized and evaluated as inhibitors of heparan sulfate uronyl 2-*O*-sulfotransferase using an in vitro enzyme assay. Two iminosugars containing guanidino groups acted as potent in vitro inhibitors of the enzyme.

**Sulfamoyl-4-oxoquinoline-3-carboxamides: Novel potentiators of defective ΔF508-cystic fibrosis transmembrane conductance regulator chloride channel gating**

pp 537–540

Yat Fan Suen, Lori Robins, Baoxue Yang, A. S. Verkman, Michael H. Nantz and Mark J. Kurth*

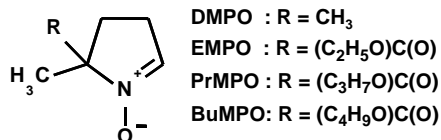
Evaluation and synthesis of sulfamoyl-4-oxoquinoline-3-carboxamide correctors of defective gating of the ΔF508-cystic fibrosis transmembrane conductance regulator chloride channel are reported.



Cytotoxicity of novel derivatives of the spin trap EMPO

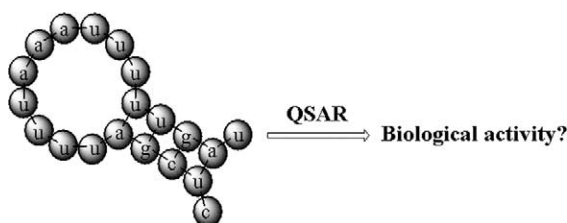
pp 541–546

Nataliya Rohr-Udilova, Klaus Stolze, Brigitte Marian and Hans Nohl*

**QSAR study for mycobacterial promoters with low sequence homology**

pp 547–553

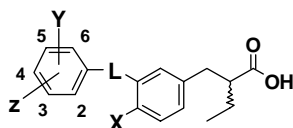
Humberto González-Díaz,* Alcides Pérez-Bello, Eugenio Uriarte and Yenny González-Díaz

**Design and synthesis of substituted phenylpropanoic acid**

pp 554–558

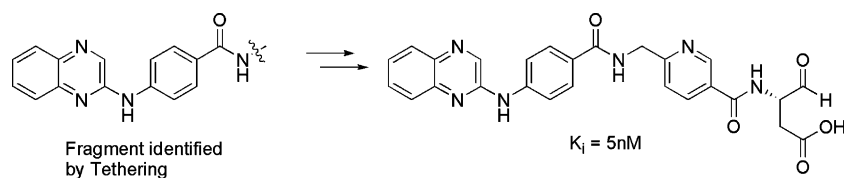
derivatives as human peroxisome proliferator-activated receptor α/δ dual agonists

Jun-ichi Kasuga, Makoto Makishima, Yuichi Hashimoto and Hiroyuki Miyachi*

The PPAR agonist with dual PPAR α/δ activity is reported.**Tethering identifies fragment that yields potent inhibitors of human caspase-1**

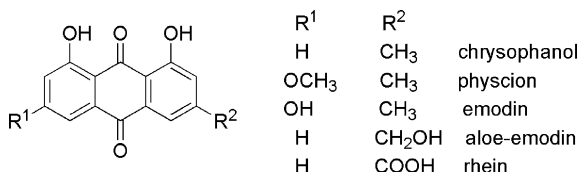
pp 559–562

Bruce T. Fahr,* Tom O'Brien, Phuongly Pham, Nathan D. Waal, Subramanian Baskaran,
 Brian C. Raimundo, Joni W. Lam, Michelle M. Sopko, Hans E. Purkey and
 Michael J. Romanowski



Isolation and inhibitory activity against ERK Phosphorylation of hydroxyanthraquinones from rhubarb pp 563–568

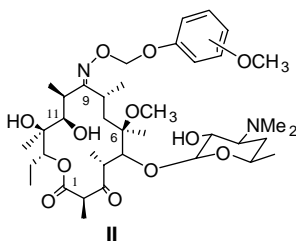
Xia Zhou, Baoan Song,* Linhong Jin, Deyu Hu, Chunling Diao, Guangfang Xu, Zhihui Zou and Song Yang



The extraction and isolation of five hydroxyanthraquinones, chrysophanol, physcion, emodin, aloe-emodin, and rhein from Chinese medicinal herb rhubarb, is developed. And their inhibitory activity against ERK phosphorylation and antifungal activity are performed.

Design, synthesis, and anti-*Helicobacter pylori* activity of erythromycin A (E)-9-oxime ether derivatives pp 569–572

Ghilsoo Nam, Tae Won Kang, Jung Hyu Shin and Kyung Il Choi*

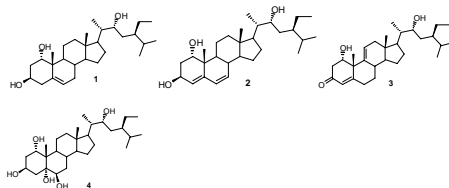


Oxime ether formation at C-9 carbonyl and methylation at C-6 hydroxy group of erythromycin A followed by transformation to ketolides gave the derivative II, which exhibited comparable in vitro anti-*H. pylori* activity and improved acid stability compared to the reference compound clarithromycin.

Isolation and cholinesterase-inhibition studies of sterols from *Haloxylon recurvum*

pp 573–580

Ejaz Ahmed, Sarfraz A. Nawaz, Abdul Malik* and M. Iqbal Choudhary

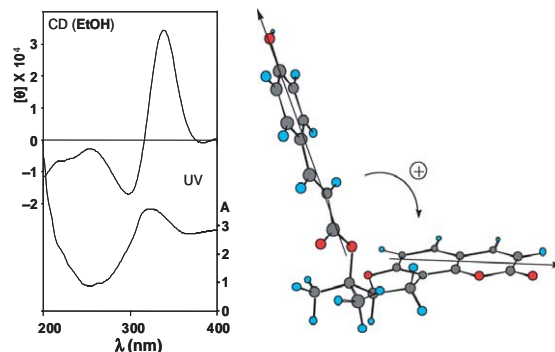


Haloxysterols A–D (1–4), together with 5 known sterols (5–9), were isolated from the whole plant of *Haloxylon recurvum*. The structures were elucidated on the basis of spectral methods, especially 2D-NMR spectra (HMQC, HMBC, and NOESY). All the compounds showed potent inhibitory activity against cholinesterase enzyme.

Angelmarin, a novel anti-cancer agent able to eliminate the tolerance of cancer cells to nutrient starvation

pp 581–583

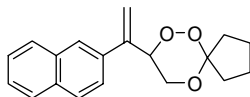
Suresh Awale, Eduardo M. N. Nakashima, Surya K. Kalauni, Yasuhiro Tezuka, Yukiko Kurashima, Jie Lu, Hiroyasu Esumi and Shigetoshi Kadota*



8-(1-Naphthalen-2-yl-vinyl)-6,7,10-trioxaspiro (4.5) decane, a new 1,2,4-trioxane effective against rodent and simian malaria

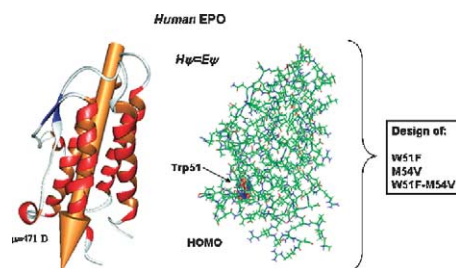
pp 584–586

Chandan Singh,* Rani Kanchan, Divya Srivastava and Sunil K. Puri


The electronic structure of human erythropoietin as an aid in the design of oxidation-resistant therapeutic proteins

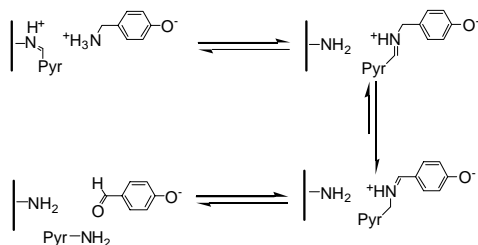
pp 587–591

Fabio Pichierri*


Inhibition of GABA shunt enzymes' activity by 4-hydroxybenzaldehyde derivatives

pp 592–595

Yun-Hai Tao, Zheng Yuan, Xiao-Qiao Tang, Hui-Bi Xu and Xiang-Liang Yang*

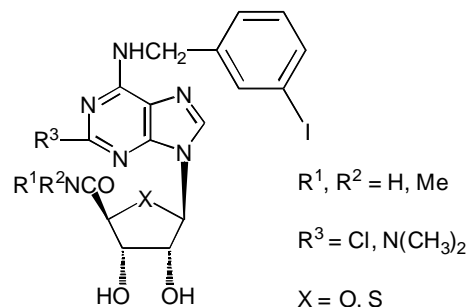


Possible mechanism of the inhibition of GABA-T by HBA and HBM.

Conversion of A₃ adenosine receptor agonists into selective antagonists by modification of the 5'-ribofuran-uronamide moiety

pp 596–601

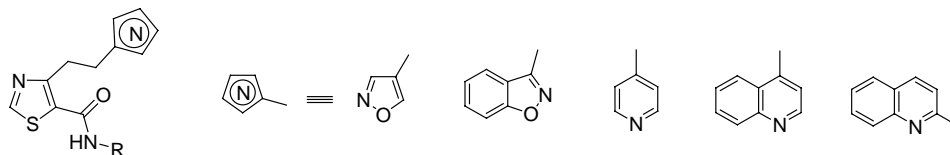
Zhan-Guo Gao, Bhalchandra V. Joshi, Athena M. Klutz, Soo-Kyung Kim, Hyuk Woo Lee, Hea Ok Kim, Lak Shin Jeong and Kenneth A. Jacobson*



N-(Aryl)-4-(azolylethyl)thiazole-5-carboxamides: Novel potent inhibitors of VEGF receptors I and II

pp 602–606

Alexander S. Kiselyov,* Evgueni Piatnitski, Marina Semenova and Victor V. Semenov

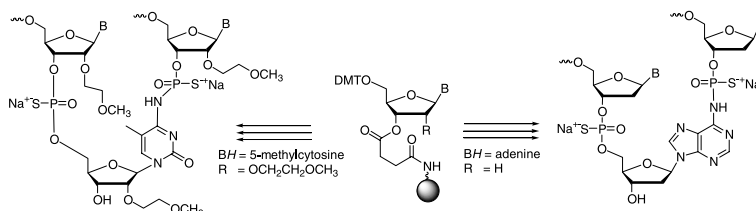


Novel potent derivatives of 4-(azolylethyl)thiazole-5-carboxamides are described as inhibitors of vascular endothelial growth factor receptor II (VEGFR-2). Many compounds display VEGFR-2 inhibitory activity reaching $IC_{50} < 100$ nM in both enzymatic and cell-based phosphorylation assays. The compounds also inhibit the related tyrosine kinase, VEGFR-1, with similar potencies.

Characterization of high molecular weight impurities in synthetic phosphorothioate oligonucleotides

pp 607–614

Christine Kurata, Kym Bradley, Hans Gaus, Nhuy Luu, Isaiah Cedillo, Vasulinga T. Ravikumar, Kent Van Sooy, James V. McArdle and Daniel C. Capaldi*

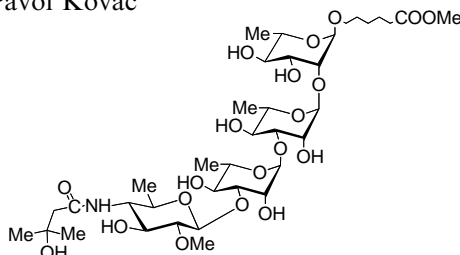


Phosphorothioate oligonucleotides manufactured by standard phosphoramidite techniques using nucleoside-loaded supports contain high molecular weight impurities of the type shown. These impurities are avoided if a novel universal solid support is used.

**Synthesis of the tetrasaccharide side chain of the major glycoprotein of the *Bacillus anthracis* exosporium**

pp 615–617

Rina Saksena, Roberto Adamo and Pavol Kováč*

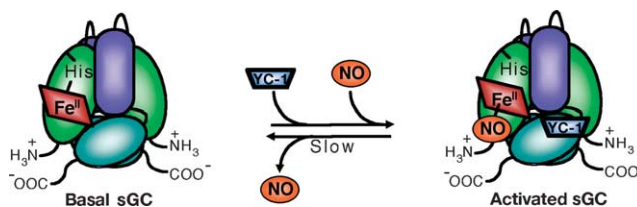


Chemical synthesis of tetrasaccharide **20** is described. The NMR data recorded for **20** confirm structure assigned to the corresponding reducing tetrasaccharide isolated from the major glycoprotein of *Bacillus anthracis* exosporium.

**The design and synthesis of YC-1 analogues as probes for soluble guanylate cyclase**

pp 618–621

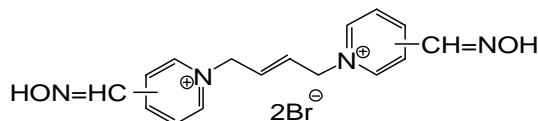
Kirk W. Hering, Jennifer D. Artz, William H. Pearson and Michael A. Marletta*



Synthesis of the novel series of bispyridinium compounds bearing (*E*)-but-2-ene linker and evaluation of their reactivation activity against chlorpyrifos-inhibited acetylcholinesterase

pp 622–627

Kamil Musilek, Kamil Kuca,* Daniel Jun, Vlastimil Dohnal and Martin Dolezal

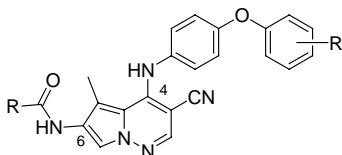


A series of novel bisquaternary reactivators of acetylcholinesterase (AChE) with (*E*)-but-2-ene connecting chain was synthesized and evaluated on chlorpyrifos-inhibited AChE with promising results.

Pyrrolopyridazine MEK inhibitors

pp 628–632

Zhong Chen,* Soong-Hoon Kim, Stephanie A. Barbosa, Tram Huynh, David R. Tortolani, Kenneth J. Leavitt, Donna D. Wei, Veeraswamy Manne, Carolyn S. Ricca, Johnni Gullo-Brown, Michael A. Poss, Wayne Vaccaro and Mark E. Salvati

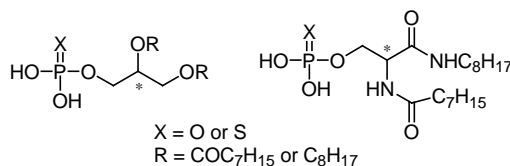


The synthesis and SAR of a series of pyrrolopyridazine MEK inhibitors are reported. Optimal activity was achieved by incorporation of a 4-phenoxyaniline substituent at C4 and an acylated amine at C6.

Synthesis and pharmacological evaluation of second-generation phosphatidic acid derivatives as lysophosphatidic acid receptor ligands

pp 633–640

Gangadhar G. Durgam, Ryoko Tsukahara, Natalia Makarova, Michelle D. Walker, Yuko Fujiwara, Kathryn R. Pigg, Daniel L. Baker, Vineet M. Sardar, Abby L. Parrill, Gabor Tigyi and Duane D. Miller*

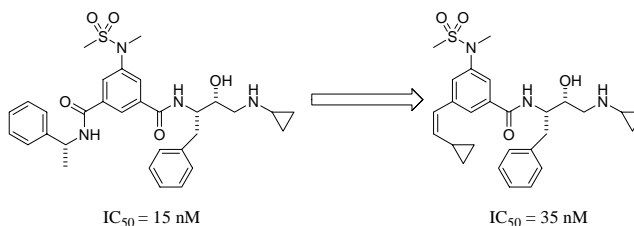


Second-generation PA analogs

Conformationally biased P3 amide replacements of β-secretase inhibitors

pp 641–644

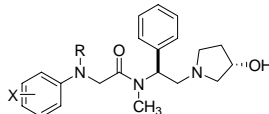
Shawn J. Stachel,* Craig A. Coburn, Thomas G. Steele, Min-Chi Crouthamel, Beth L. Pietrak, Ming-Tain Lai, M. Katharine Holloway, Sanjeev K. Munshi, Samuel L. Graham and Joseph P. Vacca



Novel phenylamino acetamide derivatives as potent and selective κ opioid receptor agonists

pp 645–648

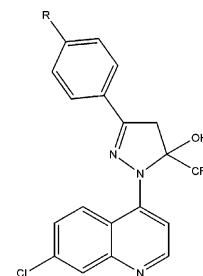
Guo-Hua Chu,* Minghua Gu, Joel A. Cassel, Serge Belanger, Gabriel J. Stabley, Robert N. DeHaven, Nathalie Conway-James, Mike Koblish, Patrick J. Little, Diane L. DeHaven-Hudkins and Roland E. Dolle

**Antimalarial activity of 4-(5-trifluoromethyl-1*H*-pyrazol-1-yl)-chloroquine analogues**

pp 649–653

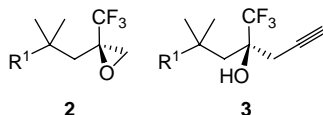
Wilson Cunico, Cleber A. Cechinel, Helio G. Bonacorso, Marcos A. P. Martins, Nilo Zanatta, Marcus V. N. de Souza, Isabela O. Freitas, Rodrigo P. P. Soares and Antoniana U. Krettli*

The antimalarial activity of 4,5-dihydropyrazole and pyrazole chloroquine analogues is reported.

**A concise asymmetric route for the synthesis of a novel class of glucocorticoid mimetics containing a trifluoromethyl-substituted alcohol**

pp 654–657

Thomas W. Lee,* John R. Proudfoot and David S. Thomson



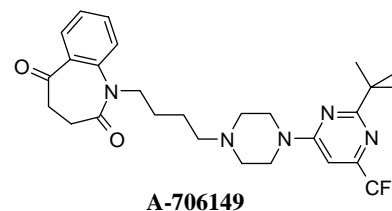
An asymmetric route involving intermediates **2** and **3** was developed for the synthesis of a class of novel glucocorticoid receptor ligand derivatives.

Synthesis and SAR of highly potent and selective dopamine D₃-receptor antagonists: Quinolin(di)one and benzazepin(di)one derivatives

pp 658–662

Hervé Geneste,* Gisela Backfisch, Wilfried Braje, Jürgen Delzer, Andreas Haupt, Charles W. Hutchins, Linda L. King, Wilfried Lubisch, Gerd Steiner, Hans-Jürgen Teschendorf, Liliane Unger and Wolfgang Wernet

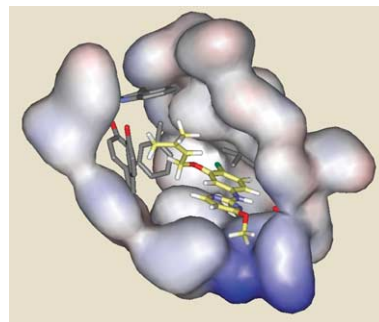
The synthesis and SAR of novel and selective dopamine D₃-receptor antagonists based on a 3,4-dihydro-1*H*-quinolin-2-one, a 1,3,4,5-tetrahydro-benzo[*b*]azepin-2-one, 1*H*-quinoline-2,4-dione or a 3,4-dihydro-1*H*-benzo[*b*]azepine-2,5-dione scaffold are discussed. **A-706149** (2.15 mg/kg, po) antagonizes PD 128907-induced huddling deficits in rat, a social interaction paradigm.



Computer-aided design of non-nucleoside inhibitors of HIV-1 reverse transcriptase

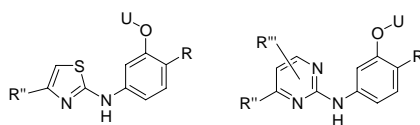
pp 663–667

William L. Jorgensen,* Juliana Ruiz-Caro, Julian Tirado-Rives,
Aravind Basavapathruni, Karen S. Anderson and Andrew D. Hamilton

**Optimization of diarylamines as non-nucleoside inhibitors of HIV-1 reverse transcriptase**

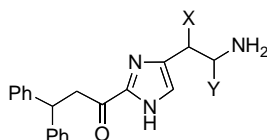
pp 668–671

Juliana Ruiz-Caro, Aravind Basavapathruni, Joseph T. Kim, Christopher M. Bailey,
Ligong Wang, Karen S. Anderson,* Andrew D. Hamilton and William L. Jorgensen*

**Side-chain modified analogues of histaprodifen: Asymmetric synthesis and histamine H₁-receptor activity**

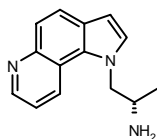
pp 672–676

Rameshwar Patil, Sigurd Elz* and Oliver Reiser*

**Pyrrolo(iso)quinoline derivatives as 5-HT_{2C} receptor agonists**

pp 677–680

David R. Adams, Jonathan M. Bentley, Karen R. Benwell, Michael J. Bickerdike,
Corinna D. Bodkin, Ian A. Cliffe, Colin T. Dourish, Ashley R. George, Guy A. Kennett,
Antony R. Knight, Craig S. Malcolm, Howard L. Mansell,* Anil Misra, Kathleen Quirk,
Jonathan R. A. Roffey and Steven P. Vickers



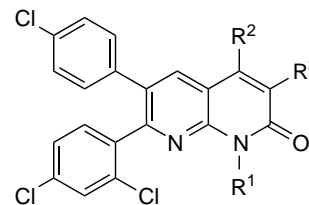
A series of 1-(1-pyrrolo(iso)quinoliny)-2-propylamines was prepared and evaluated as 5-HT_{2C} receptor agonists for the treatment of obesity.

Synthesis of functionalized 1,8-naphthyridinones and their evaluation as novel, orally active CB1 receptor inverse agonists

pp 681–685

John S. Debenham,* Christina B. Madsen-Duggan, Thomas F. Walsh, Junying Wang, Xinchun Tong, George A. Doss, Julie Lao, Tung M. Fong, Marie-Therese Schaeffer, Jing Chen Xiao, Cathy R.-R. C. Huang, Chun-Pyn Shen, Yue Feng, Donald J. Marsh, D. Sloan Stribling, Lauren P. Shearman, Alison M. Strack, D. Euan MacIntyre, Lex H. T. Van der Ploeg and Mark T. Goulet

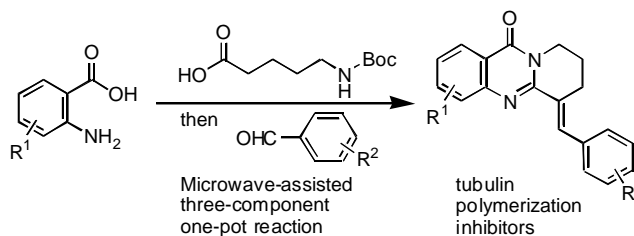
The synthesis, structure–activity relationship, and biological evaluation of a new class of 1,8-naphthyridinone CB1 receptor specific inverse agonists are described.

**Privileged structure-based quinazolinone natural product-templated libraries:**

pp 686–690

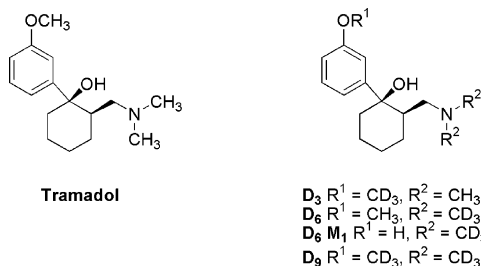
Identification of novel tubulin polymerization inhibitors

Ji-Feng Liu,* Christopher J. Wilson, Ping Ye, Kevin Sprague, Katie Sargent, Ying Si, Galina Beletsky, Daniel Yohannes and Shi-Chung Ng

**Derivatives of tramadol for increased duration of effect**

pp 691–694

Liming Shao,* Craig Abolin, Michael C. Hewitt, Patrick Koch and Mark Varney



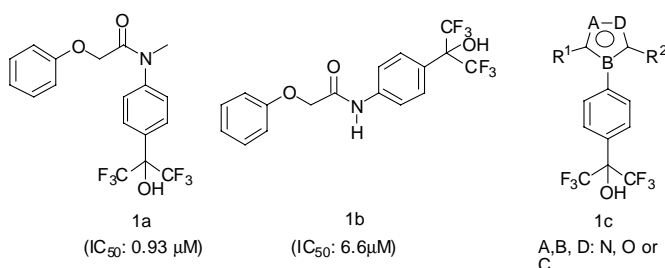
D-Tramadol Analogs

Design and synthesis of heterocyclic malonyl-CoA decarboxylase inhibitors

pp 695–700

Jie-Fei Cheng,* Mi Chen, Bin Liu, Zheng Hou, Thomas Arrhenius and Alex M. Nadzan

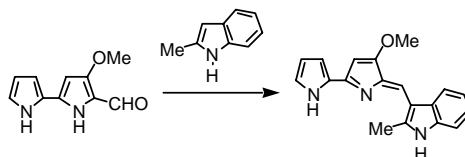
Based on the initial HTS hit **1a**, a series of heterocycles (**1c**) such as isoxazole and imidazoles designed to mimic the amide conformation was synthesized and SAR studies were performed.



Indoloprodigiosins from the C-10 bipyrrrolic precursor: New antiproliferative prodigiosin analogs

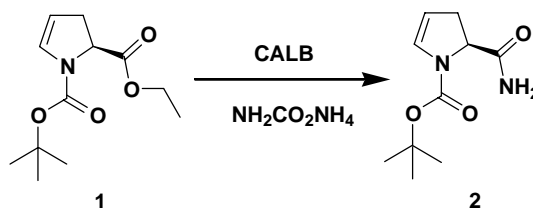
pp 701–704

Carmen M. Baldino,* Jonathan Parr, Christopher J. Wilson, Shi-Chung Ng, Daniel Yohannes and Harry H. Wasserman*

**Biocatalytic ammonolysis of (5S)-4,5-dihydro-1H-pyrrole-1,5-dicarboxylic acid, 1-(1,1-dimethylethyl)-5-ethyl ester: Preparation of an intermediate to the dipeptidyl peptidase IV inhibitor Saxagliptin**

pp 705–709

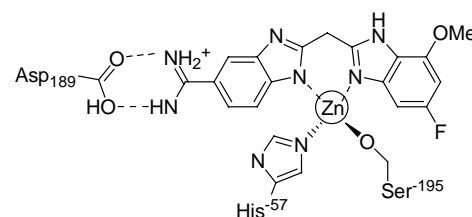
Iqbal Gill* and Ramesh Patel

**Generation of potent coagulation protease inhibitors utilizing zinc-mediated chelation**

pp 710–713

Wendy B. Young,* Paul Sprengeler, William D. Shrader, Yong Li, Roopa Rai, Erik Verner, Thomas Jenkins, Paul Fatheree, Aleksandr Kolesnikov, James W. Janc, Lynne Cregar, Kyle Elrod and Brad Katz

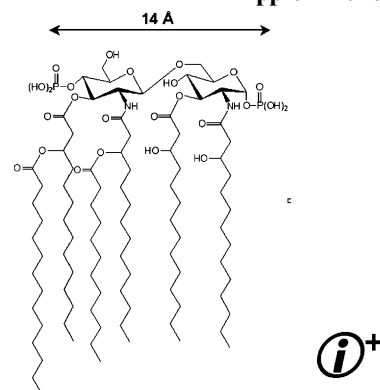
Inhibition of coagulation proteases such as thrombin, fXa, and fVIIa has been a focus of ongoing research to produce safe and effective antithrombotic agents. Herein, we describe a unique zinc-mediated chelation strategy to streamline the discovery of potent inhibitors of fIIa, fXa, and fVIIa. SAR studies that led to the development of selective inhibitors of fXa will also be detailed.

**Molecular modeling analysis of the interaction of novel bis-cationic ligands with the lipid A moiety of lipopolysaccharide**

pp 714–717

Jian-Xin Guo, Stewart J. Wood, Sunil A. David * and Gerald H. Lushington *

The lipopolysaccharide pharmacophore, dominated by cationic phosphate centers but also comprising hydrophobic and H-bond acceptor and donor sites.

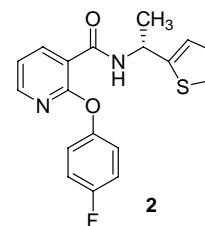


A new chemical tool for exploring the role of the PDE4D isozyme in leukocyte function

pp 718–721

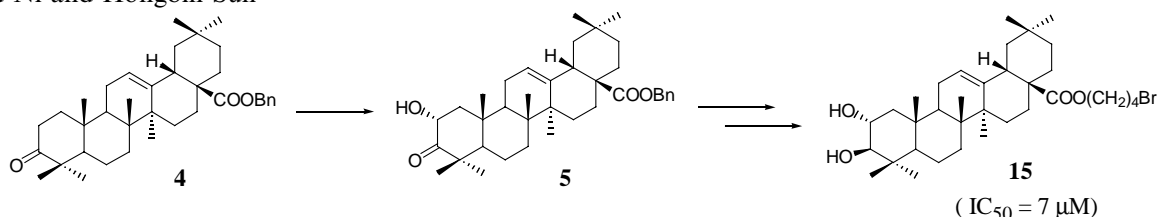
Robert J. Chambers,* Kristin Abrams, Tessa A. Castleberry, John B. Cheng, Douglas A. Fisher, Ajith V. Kamath, Anthony Marfat, David O. Nettleton, Joann D. Pillar, Eben D. Salter, Alissa L. Sheils, John T. Shirley, Claudia R. Turner, John P. Umland and Kelvin T. Lam

Nicotinamide (**2**) is a potent and selective inhibitor of the PDE4D isozyme and as a chemical tool selectively blocks eosinophil mediator release and chemotaxis thus linking the role of PDE4D to eosinophil function.

**Pentacyclic triterpenes. Part 2: Synthesis and biological evaluation of maslinic acid derivatives as glycogen phosphorylase inhibitors**

pp 722–726

Xiaoan Wen, Pu Zhang, Jun Liu, Luyong Zhang, Xiaoming Wu, Peizhou Ni and Hongbin Sun*

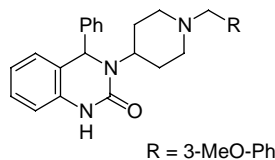


The synthesis of a series of maslinic acid derivatives is described and their effect on rabbit muscle glycogen phosphorylase is evaluated. Within this series of compounds, **15** (IC₅₀ = 7 μM) is the most potent GPa inhibitor.

A novel class of sodium/calcium exchanger inhibitors: Design, synthesis, and structure–activity relationships of 4-phenyl-3-(piperidin-4-yl)-3,4-dihydro-2(1H)-quinazolinone derivatives

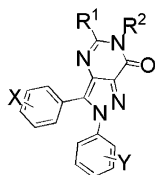
pp 727–730

Hirohiko Hasegawa,* Masami Muraoka, Kazuki Matsui and Atsuyuki Kojima

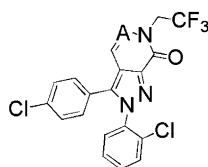
**New bicyclic cannabinoid receptor-1 (CB₁-R) antagonists**

pp 731–736

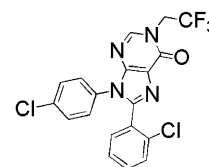
Philip A. Carpino,* David A. Griffith, Subas Sakya, Robert L. Dow, Shawn C. Black, John R. Hadcock, Philip A. Iredale, Dennis O. Scott, Michael W. Fichtner, Colin R. Rose, Robert Day, Joseph Dibrino, Mary Butler, Demetria B. DeBartolo, Darrin Dutcher, Denise Gautreau, Jeff S. Lizano, Rebecca E. O'Connor, Michelle A. Sands, Dawn Kelly-Sullivan and Karen M. Ward



2-4, hCB₁-R Ki's = 0.2 - 38 nM



5 and 6, A = C or N, hCB₁-R Ki = 1 - 8 nM



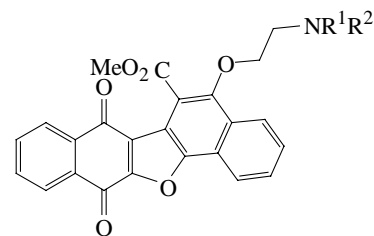
7, hCB₁-R Ki = 1 nM

Naphthofuroquinone derivatives: Inhibition of receptor tyrosine kinases

pp 737–742

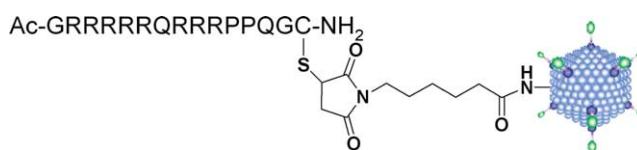
Kee-In Lee, Youmie Park, Su-Jin Park, Jung-Hwan Hwang, Sung-Jin Lee, Gun-Do Kim, Woo-Kyu Park, Sunghou Lee, Daeyoung Jeong, Jae-Yang Kong, Hee-Kyoung Kang and Heeyeong Cho *

A series of dinaphtho[1,2-*b*;2',3'-*d*]furan-7,12-dione derivatives were synthesized and evaluated for inhibitory activities against receptor tyrosine kinases. The naphthofuroquinone compounds with dialkylaminoethoxy group at C(5)-position (**7**, **8**, **10**, and **11**) manifested strong inhibitory activities against epidermal growth factor receptor and vascular endothelial growth factor receptor. Docking study of **11** with EGFR was also performed.

**Design and synthesis of a Tat-related gene transporter: A tool for carrying the adenovirus vector into cells**

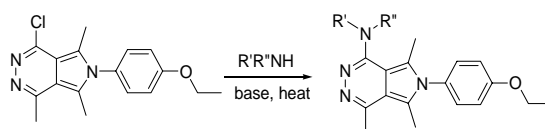
pp 743–745

Shinya Kida, Mitsuko Maeda, Keiko Hojo, Yusuke Eto, Jian-Qing Gao, Shinnosuke Kurachi, Hiroyuki Mizuguchi, Takao Hayakawa, Tadanori Mayumi, Shinsaku Nakagawa and Koichi Kawasaki *

**Expedited SAR study of high-affinity ligands to the $\alpha_2\delta$ subunit of voltage-gated calcium channels: Generation of a focused library using a solution-phase Sn2Ar coupling methodology**

pp 746–749

Chixu Chen,* Brian Stearns, Tao Hu, Naomi Anker, Angelina Santini, Jeannie M. Arruda, Brian T. Campbell, Purabi Datta, Jayashree Aiyar and Benitio Munoz

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*Corresponding author

Supplementary data available via ScienceDirect

COVER

Computer-aided design has been used to guide the efficient development of new non-nucleoside inhibitors of HIV-1 reverse transcriptase. Lead compounds were provided by the ligand-growing program *BOMB* and optimized with guidance from free-energy perturbation calculations. It was possible to progress rapidly a 30- μ M lead from an anti-HIV cell-based assay to yield the illustrated 10-nM inhibitor. [Jorgensen, W. L.; Ruiz-Caro, J.; Tirado-Rives, J.; Basavapathruni, A.; Anderson, K. S.; Hamilton, A. D. *Bioorg. Med. Chem. Lett.* **2006**, 16, 663.]



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