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Synthesis and Activity of Substituted 4-(Indazol-3-yl)phenols as Pathway-Selective Estrogen Receptor Ligands Useful in the Treatment of Rheumatoid Arthritis

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Letters

6435 Synthesis and Activity of Substituted 4-(Indazol-3-yl)phenols as Pathway-Selective Estrogen Receptor Ligands Useful in the

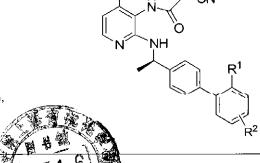
Treatment of Rheumatoid Arthritis

Robert J. Steffan,* Edward Matelan, Mark A. Ashwell, William J. Moore, William R. Solvibile, Eugene Trybulski, Christopher C. Chadwick, Susan Chippari, Thomas Kenney, Amy Eckert, Lisa Borges-Marcucci, James C. Keith, Zhang Xu, Lydia Mosyak, and Douglas C. Harnish

6439 2,3-Diaminopyridine Bradykinin B₁ Receptor

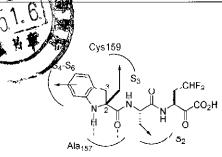
■ Antagonists

Scott D. Kuduk,* Christina Ng, Dong-Mei Feng, Jenny M.-C. Wai, Raymond S. L. Chang, Charles M. Harrell, Kathy L. Murphy, Richard W. Ransom, Duane Reiss, Magnus Ivarsson, Glenn Mason, Susan Boyce, Cuyue Tang, Thomayant Prueksaritanont, Roger M. Freidinger, Douglas J. Pettibone, and Mark G. Bock



6443 The Design and Enzyme-Bound Crystal Structure of Indoline Based Peptidomimetic Inhibitors of Hepatitis C Virus NS3 Protease

Jesus M. Ontoria, Stefania Di Marco, Immacolata Conto, M. Emilia Di Francosco, Cristina Gardelli, Uwe Koch, Victor G. Matassa, Marco Poma, Christian Steinkühler, Cinzia Volpari, and Steven Harper*



Cell-Permeable Inhibitors of Human β-Secretase (BACE-1)

Shawn J. Stachel,* Craig A. Coburn, Thomas G. Steele, Kristen G. Jones, Elizabeth F. Loutzenbiser, Alison R. Gregro, Hemaka A. Rajapakse, Ming-Tain Lai, Ming-Chih Crouthamel, Min Xu, Katherine Tugusheva, Janet E. Lineberger, Beth L. Pietrak, Amy S. Espeseth, Xiao-Ping Shi, Elizabeth Chen-Dodson, M. Katharine Holloway, Sanjeev Munshi, Adam J. Simon, Lawrence Kuo, and Joseph P. Vacca

6451 Novel 2-(Substituted phenyl)benzimidazole

Derivatives with Potent Activity against IgE, Cytokines, and CD23 for the Treatment of Allergy and Asthma

Mark L. Richards,* Shirley Cruz Lio, Anjana Sinha, Kenneth K. Tieu, and Jagadish C. Sircar

li (AVP-13358)

6455 Design and Synthesis of a Potent and Selective

Peptidomimetic Inhibitor of Caspase-3

Nicola Micale,* Rajendran Vairagoundar, Alexander G. Yakovlev, and Alan P. Kozikowski

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6459 Synthesis and Anti-Tubulin Activity of a

3'-(1 Azidophenyl)-3'-dephenylpaclitaxel

Photoaffinity Probe

Jared T. Spletstoser, Patrick T. Flaherty, Richard H. Himes, and Gunda I. Georg*

6466 Catecholic Flavonoids Acting as Telomerase ■ Inhibitors

Maria Menichincheri,* Dario Ballinari, Alberto Bargiotti, Luisella Bonomini, Walter Ceccarelli, Roberto D'Alessio, Antonella Fretta, Juergen Moll, Paolo Polucci, Chiara Soncini, Marcellino Tibolla, Jean-Yves Trosset, and Ermes Vanotti

$$R_{a}$$
 R_{b}
 R_{a}
 R_{b}
 R_{b}
 R_{b}
 R_{b}
 R_{b}
 R_{b}

6476 Calcitriol Derivatives with Two Different Side

■ Chains at C-20. II. Diastereoselective Syntheses of the Metabolically Produced 24(R)-Hydroxygemini

Hubert Maehr,* Milan R. Uskokovic, Luciano Adorini, and G. Satyanarayana Reddy

6485 Stereochemical Analysis of (Hydroxyethyl)urea Peptidomimetic Inhibitors of γ -Secretase

BochN
$$\stackrel{\text{OH}}{\longrightarrow}$$
 $\stackrel{\text{OH}}{\longrightarrow}$ $\stackrel{\text{OMe}}{\longrightarrow}$ $\stackrel{\text{OMe}}{\longrightarrow}$ $\stackrel{\text{OMe}}{\longrightarrow}$ $\stackrel{\text{OMe}}{\longrightarrow}$

Pancham Bakshi and Michael S. Wolfe*

6490 Structure-Activity Relationships of

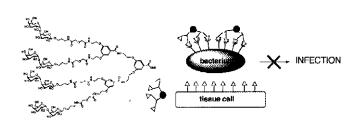
Acetylcholinesterase Noncovalent Inhibitors Based on a Polyamine Backbone. 3. Effect of Replacing the Inner Polymethylene Chain with Cyclic Moieties

$$\begin{array}{c|c} CMe & Et & O \\ \hline CH_2N(CH_2)_5C & N \end{array} \\ \begin{array}{c} CH_2N(CH_2)_5C & N \end{array} \\ \end{array} \\ \begin{array}{c} CH_2N(CH_2)_5C - N \end{array} \\ \end{array} \\ \begin{array}{c} CH_2N(CH_2)_5C - N \end{array}$$

Vincenzo Tumiatti,* Vincenza Andrisano, Rita Banzi, Manuela Bartolini, Anna Minarini, Michela Rosini, and Carlo Melchiorre*

6499 Inhibition of Streptococcus suis Adhesion by

■ Dendritic Galabiose Compounds at Low Nanomolar Concentration



John A. F. Joosten, Vuokko Loimaranta, Chantal C. M. Appeldoorn, Sauli Haataja, Fatna Ait El Maate, Rob M. J. Liskamp, Jukka Finne, and Roland J. Pieters* 6509 Antiestrogen Binding Site and Estrogen Receptor Mediate Uptake and Distribution of 4-Hydroxytamoxifen-Targeted Doxorubicin-Formaldehyde Conjugate in Breast Cancer Cells

doxorubicin-formaldehyde conjugate targeted to ER/AEBS

Patrick J. Burke, Brian T. Kalet, and Tad H. Koch*

6519 Synthesis and Structure-Activity Relationship

Studies for Hydantoins and Analogues as Voltage-Gated Sodium Channel Ligands

$$\begin{array}{c|c} R_1 & R_3 \\ \hline \\ O & R_4 \\ \hline \\ O & R_4 \\ \end{array}$$

$$\begin{split} R_1 &= CH_3,\,C_2H_5,\,C_5H_{11},\,C_7H_{15},\,C_9H_{19},\,\text{or Ph} \\ R_2 &= OH,\,NH_2,\,NH(alkyl),\,\text{or }N(alkyl)_2;\,R_3 = OH\,\,\text{or }NH_2\\ R_4 &= Ms.\,\,Ts,\,benzyl,\,\text{or }(diphenylmethyl)piperazinylethyl \end{split}$$

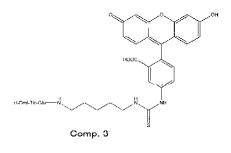
Congxiang Zha, George B. Brown, and Wayne J. Brouillette*

6529 2,4,6-Trisubstituted Pyrimidines as a New Class
of Soloctive Adenosine A, Receptor Antagonists

Lisa C. W. Chang, Ronald F. Spanjersberg, Jacobien K. von Frijtag Drabbe Künzel, Thea Mulder-Krieger. Gijs van den Hout. Margot W. Beukers, Johannes Brussee, and Adriaan P. IJzerman*

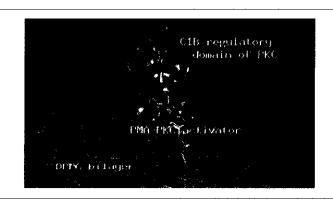
6541 Highly Selective Fluorescent Analogue of the Potent δ -Opioid Receptor Antagonist Dmt-Tic

Gianfranco Balboni, Severo Salvadori, Alessandro Dal Piaz, Fabrizio Bortolotti, Roberto Argazzi, Lucia Negri, Roberta Lattanzi, Sharon D. Bryant, Yunden Jinsmaa, and Lawrence H. Lazarus*



6547 Molecular Interaction Model for the C1B

■ Domain of Protein Kinase C-y in the Complex with Its Activator Phorbol-12-myristate-13-acetate in Water Solution and Lipid Bilayer



Jozef Hritz, Jozef Ulieny, Aatto Laakonen, Daniel Jancura, and Pavol Miskovsky*

6556 Structure-Activity Relationship of

6-Methylidene Penems Bearing Tricyclic
Heterocycles as Broad-Spectrum β-Lactamase Inhibitors: Crystallographic Structures Show Unexpected Binding of 1,4-Thiazepine Intermediates

Aranapakam M. Venkatesan, Yansong Gu, Osvaldo Dos Santos, Takao Abe, Atul Agarwal, Youjun Yang, Peter J. Petersen, William J. Weiss, Tarek S. Mansour,* Michiyoshi Nukaga, Andrea M. Hujer, Robert A. Bonomo, and James R. Knox*

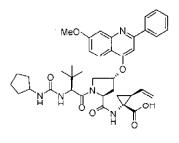
6569 Molecular Surface Point Environments for Virtual Screening and the Elucidation of Binding Patterns (MOLPRINT 3D)

Andreas Bender, Hamse Y. Mussa, Gurprem S. Gill, and Robert C. Glcn*



6584 A Systematic Approach to the Optimization of Substrate-Based Inhibitors of the Hepatitis C Virus NS3 Protease: Discovery of Potent and Specific Tripeptide Inhibitors

Montse Llinàs-Brunet,* Murray D. Bailey, Elise Ghiro, Vida Gorys, Ted Halmos, Martin Poirier, Jean Rancourt, and Nathalie Goudreau



6595 Design, Synthesis and Evaluation of a PLG

■ Tripeptidomimetic Based on a Pyridine Scaffold

Stina Saitton, Andria I. Del Tredici, Nina Mohell, Roeland C. Vollinga, Dan Boström, Jan Kihlberg, and Kristina Luthman*

6603 Discovery of Pyrano[3,4-b]indoles as Potent and ■ Selective HCV NS5B Polymerase Inhibitors

Ariamala Gopalsamy,* Kitae Lim, Gregory Ciszewski, Kaapjoo Park, John W. Ellingboe, Jonathan Bloom, Shabana Insaf, Janis Upeslacis, Tarek S. Mansour, Girija Krishnamurthy, Murthy Damarla, Yelena Pyatski, Douglas Ho, Anita Y. M. Howe, Mark Orlowski, Boris Feld, and John O'Connell

6609 Identification of Novel Parasitic Cysteine Protease Inhibitors Using Virtual Screening. 1. The ChemBridge Database

241,0000 Metals
 ADML 3. Lipinski's Rule of S 60,000 7-8 times | \$\int_{\text{speed-up}}\$ D cheed-lik 1,500 Standard __ mode Bio ∏ A:

Prashant V. Desai, Akshay Patny, Yogesh Sabnis, Babu Tekwani, Jiri Gut, Philip Rosenthal, Anuradha Srivastava, and Mitchell Avery*

6616 Structure−Affinity Relationship Study on N-(1,2,3,4-Tetrahydronaphthalen-1-yl)-4-Aryl-1-Piperazinealkylamides, a New Class of 5-Hydroxytryptamine, Receptor Agents

R = H, OCH₃ n = 1-5

Marcello Leopoldo,* Francesco Berardi, Nicola A. Colabufo, Marialessandra Contino, Enza Lacivita, Mauro Niso, Roberto Perrone, and Vincenzo Tortorella

 $Ar = 2-OCH_3-Ph, 2-CN-Ph, 2-CH_3CO-Ph, 2-SCH_3-Ph, 2-CH_3-Ph, 2-OH-Ph,$ 1,2-benzisoxazol-3-yl, Ph. 2-Cl-Ph, 2-NO₂-Ph.

6625 Comparative in Vivo Behavior Studies of

Cyclen-Based Copper-64 Complexes: Regioselective Synthesis, X-ray Structure, Radiochemistry, $\log P$, and Biodistribution

Jeongsoo Yoo, David E. Reichert, and Michael J. Welch*

6638 Synthetic Bryostatin Analogues Activate the RasGRP1 Signaling Pathway

Natural Bryostatin 1

Synthetic Analogues

James C. Stone,* Stacey L. Stang, Yong Zheng, Nancy A. Dower, Stacey E. Brenner, Jeromy L. Baryza, and Paul A. Wender

Bryostatin 1

1 R=Me 2 R=H

Brief Articles

6645 Effects of Substitution on the Pyrrole N Atom

in Derivatives of Tetrahydronaltrindole,
Tetrahydrooxymorphindole, and a Related
4,5-Epoxyphenylpyrrolomorphinan

Sanjay K. Srivastava, Shefali, Carl N. Miller, Mario D. Aceto, John R. Traynor, John W. Lewis, and Stephen M. Husbands*

6649 Synthesis and Antibacterial Activity of New

■ Poly-S-lysine-Porphyrin Conjugates

João P. C. Tomé, Maria G. P. M. S. Neves, Augusto C. Tomé, José A. S. Cavalciro,* Marina Soncin, Michela Magaraggia, Stefania Ferro, and Giulio Jori*

Book Reviews

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Bruce L. Currie 6653 Annual Review of Pharmacology and Toxicology. Volume 44

Kevin G. Rice 6653 Molecular Biology in Medicinal Chemistry

Steven W. Muchmore 6654 Protein Crystallograpy in Drug Discovery

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