Annual Report
2008-2009

Faculty Publications
Division of Medicinal Chemistry

Fast, Walter L.

(Li, Benkovik) “Structural and Functional Modularity of Proteins in the de novo Synthetic Biotin Synthesis.”

Protein Science 18, pp. 881-892, ’09.


(Wang, Monzongo, Hu, Schaller, Robertus) “Developing Dual and Specific Inhibitors of Dimethylarginine dimethylaminohydrolase-1 and Nitric Oxide Synthase; Toward a Targeted Polypharmacology to Control Nitric Oxide.” Biochemistry 48, pp. 8624-8635, ’09.

Kerwin, Sean M.

(Player, Jashewby, Karr, Brennan, David) “Real-time Investigation of SV40 Large T-antigen Helicase Activity: Using Surface Plasmon Resonance.”


(Galal, Hagab, Kassab, Rodriguez, El-Khamy, El Diwani) “New Transition Metal Ion Complexes with Benzimidazole-5-Carbboxylic Acid Hydrazides with Antitumor Activity.”

European Journal of Medicinal Chemistry 44, pp. 1500-1508, ’09.

(Marriner) “An Improved Synthesis of N’-Nitroso-Nornicotine-5’-Acetate.”


(Larocche, Li) “Lithiation and Functionalization of N-Alkylidenamines at the 2-Position.”


Liu, Hungwen

(Thibodeaux, Melancon, III) “Natural Product Sugar Biosynthesis and Enzymatic Glycodiversification.”


(Munos, Moon, Mansoorabadi, Chang, Hong, Yang, Liu, A.) “Purification and Characterization of the Exoproteins Catalyzing the Formation of Fosfomycin from Pseudomonas syringae.”

Biochemistry 47, pp. 8726-8735, ’08.


(White-Phillip, Thibodeaux) “Enzymatic Synthesis of TDP-Sugars.”


(Thibodeaux) “Unraveling the Mechanism of Isoprenoid Biosynthetic Enzymes: Mechanistic Studies of the Early Stage Enzymes.”

Chimia 63, pp. 334-339, ’09.


Cellular and Molecular Life Sciences 65, pp. 3606-3618, ’08.

(Pegan, Serrano, Mesecar) “Structural and Mechanistic Analysis of trans-3-Chloroacrylic Acid Dehalogenase Activity.”

Acta Crystallographica Section D: Biological Crystallography 64, pp. 1277-1282, ’08.

Zhang, Zhiwen J.

(Thibodeaux, G., Cowmeadow, Umeda) “A Tetracycline Resistance Modified Mammalian Two-Hybrid System To Detect Protein-Protein Interactions in vivo.”


(Umeda, Thibodeaux, G., Zhu, Lee) “Site-specific Protein Crosslinking with Genetically Incorporated 3,4-Dihydroxy-L-Phenylalanine.”


Division of Pharmacology

Croyle, Maria A.


European Journal of Medicinal Chemistry 44, pp. 1500-1508, ’09.

(Marriner) “An Improved Synthesis of N’-Nitroso-Nornicotine-5’-Acetate.”


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Chimia 63, pp. 334-339, ’09.
Division of Pharmacology and Toxicology

Bratton, Shawn B.


Erickson, Carlson K. (White) "Commentary: The neurobiology of addiction recovery." Alcoholism Treatment Quarterly 27, pp. 338-345 ‘09.


Dingburg, David S. (Frei) “Pharmacokinetic/pharmacodynamic modeling to predict in vivo effectiveness of various dosing regimens of piperacillin/tazobactam and piperacillin monotherapy against gram-negative pulmonary isolates from patients managed in intensive care units in 2002.” Clinical Therapeutics 30, pp. 2335-2341, ‘08. (Sulisoprolam) “In vitro activity of colistin in combination with amic平in/sulfactam, cephalosporin, rifaximipin, doxycycline, levofloxacin, and amikacin against multi-drug-resistant Acinetobacter baumannii (Ab).” (Attridge, Carden, Padilla, Nathusiusw) “Intoxication is not always visible: An unrecognised drug ecstasy disrupts the hypothalamic-pituitary-gonadal reproductive axis in adult male rats.”

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warfarin—also known as coumadin.

Inpatient Warfarin Inr Monitoring Policy: Clinical Instruc-
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Heparin vs Lmwh vs Fondaparinux: What's the Differ-
ence? Formulary Flash, A Publication of the P&T Com-
mittee and the Department of Pharmacy, University Health
System, San Antonio, TX, Dec. '08.

"Continuous Versus Intermittent Infusion of Oxacillin
for Treatment of Infective Endocarditis Caused By Me-
thicillin-Susceptible Staphylococcus Aureus." Antimi-

"Disease-in Cosmorbid Conditions Among White and Black HIV/AIDS Pa-
tients in The United States National Hospital Discharge Survey (NHDS)," (Makos, Miller) "Elevated Risk Of
MRSA Skin Infections Among U.S. Children Who Are In-
dent or From Or The South," (Nelson, Wiederhold, Watts) "Outpatient Management Of Community-Associated
MRSA (CA-MRSA) Skin Infections," (Miller, Lewis, Lawson, Talbert) "Vancomycin (VAN) and Clindamycin (CLIN) For The Treatment Of Hos-
pitalized Patients With Community-Associated MRSA
(CA-MRSA) Skin Infections," (Makos, Miller) "IncidenceAnd Risk Factors For Community Acquired Methicillin-Resistant Staphylo-
ococcus Aureus Skin Infections Among U.S. Children," (Owens, McEwen, Ryan, Chawla, Burzynski, Green, Lee) "Intravenous Anti-
biotics After The Intravenous Administration of Amino-
hydroquinine For Patients With Type I Diabetes Melli-
uosus And Non-Hodgkin's Lymphoma Patients Undergoing Stem Cell Transplants At The South Texas Veterans Healthcare System," (Hofmann, Rottman, Sanchez) "Metabolic ResponsesTo The Echinocandin Susceptibility In Candida Al-

Jaso, Mortensen, Restrepo, Raut, Oramasuwn, Ruiz,
Makos, Ruiz, Attridge, Mody, Fisher, Schein) "Medical Resource Utilization Among Community-Acquired Pneumonia Patients Initially Treated With Levofloxacin
750 Mg Daily And Ceftriaxone 1000 Mg Plus
Azithromycin 500 Mg Daily: A Us-Based Study." Cur-
rent Medical Research and Opinion 25, pp. 859-868, '09.

"Gender And Race-Based Disparities In The Proportion Of Hepatitis C Pa-
tients That Are Co-Infected With HIV/AIDS In The 1996-2005 U.S. National Hospital Discharge Survey (NHDS)" and (Carvalho, McConville) "Major Sites Of
Pulmonary Malignancy And Associated Health Out-
comes For Lung Cancer Patients In The 1996-2005 Na-
tional Hospital Discharge Survey (NHDS)." American
Association of Pharmaceutical Scientists Annual Meeting
and Exhibition, Atlanta, GA, Nov. '08. (Abstracts)

Jaso, Mortensen, Restrepo, Raut, Oramasuwn, Ruiz,
Makos, Ruiz, Attridge, Mody, Fisher, Schein) "Medical Resource Utilization Among Community-Acquired Pneumonia Patients Empirically Treated With Lev-
ofloxacin 750mg Daily Vs. Ceftriaxone 1g Plus
Azithromycin 500mg Daily." American Society of
Health-System Pharmacists Midyear Clinical Meeting,
Orlando, FL, Dec. '08. (Abstract)

"Health Outcomes Among A National Cohort Of HIV/AIDS Pa-
tients That Are Co-Infected With HIV/AIDS In The
United States National Hospital Discharge Survey (NHDS)," (Makos, Oramasuwn) "Incidence And Risk Factors For Fenofibrate-Associated
Nephrotoxicity," American College of Pharmacy/ European Society for Clinical Pharmacy In-
ternational Congress on Pharmacy, Orlando, FL, April '09. (Abstracts)

"Outpatient Management Of Community-Associated MRS A (CA-MRSA) Skin Infections," (Miller, Lewis, Talbert) "Vancomycin (VAN) and Clindamycin (CLIN) For The Treatment Of Hospital-
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(CA-MRSA) Skin Infections," (Makos, Oramasuwn) "Incidence And Risk Factors For Community Acquired Methicillin-Resistant Staphylo-
ococcus Aureus Skin Infections Among U.S. Children," (Oramasuwn, Hunter, Ryan, Lawson, Brown, Makos) "Black Race As A Predictor Of Poor Health Outcomes Among A National Cohort Of HIV/AIDS Pa-
tients Admitted To U.S. Hospitals: A Cohort Study," (Jaso, Oroamasuwn, Mortensen, Restrepo, Raut, Ruiz, Jimenez, Makos, Fisher, Schein) "Evidence To Support
Guideline-Concordant Antibiotics From The 2007
IDSA/ATS Guidelines For Community-Acquired Pneu-
monia (Kuper, Miller, Beavers, Keeton, Caldwell) "A National, Multi-Center Study Of Resource Utilization For Patients Admitted In A Medical Syst-
tem Management Program, Anticoagulation Safety
System, San Antonio TX, Nov. '08.

"Elevated Risk Of An Electronic Risk Factor Assessment And Medica-
tion Order Set On Contrast Induced Nephropathy." American Society Of Health-System Pharmacists Midyear Clinical Meeting, Orlando, FL, December '08. (Abstracts)

"Impact Of An Electronic Risk Factor Assessment And Medication
Order Set On Contrast Induced Nephropathy." Ameri-
can Society Of Health-System Pharmacists Midyear
Clinical Meeting, Orlando, FL, April '09.

Greene, Rebecca

"Toxicity Of A Second Autologous Peripheral
Blood Stem Cell Transplant In Patients With Relapsed
Or Recurrent Multiple Myeloma." Leukemia and Lym-
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Greene, Rebecca

"Vaccination Rates Among Pharmacists." Journal of the
American Pharmacists Association 49, pp. 259-260, '09

"Utilizing Computer Prescriber Order To Assist In The Ordering Of Vancomycin Levels," (Hehr, Rottman, Greene, Utz) "Intravenous Antibiotics After The
Initiation Of A Penicillin Prophylaxis Protocol In Multi-
purpose Intervention Order Set On Contrast Induced
Nephropathy." (Hughes, Maxwell, Horgan) "PrescriberOrderEntryTo Assist In The Ordering Of Ceftriaxone Daily Vs. Ceftriaxone 1g Plus Azithromycin 500mg Daily." American Society of
Health-System Pharmacists Midyear Clinical Meeting,
Orlando, FL, April '09. (Abstracts)

"Evaluation Of Community Acquired Methicillin-Resistant Staphylo-
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"Continuous Versus Intermittent Infusion Of Oxacillin
For Treatment Of Infective Endocarditis Caused By Me-	hicillin-Susceptible Staphylococcus Aureus." Anti-

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Blood Stem Cell Transplant In Patients With Relapsed
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Saklad, Stephen R. (Kane, Noordsy, Cohen, Dufrene, Parks) “Discussion Topics: Challenges To Early And Effective Treatment Of Schizophrenia” and (Kane, Noordsy, Cohen, Dufrene, Parks) “Importance Of Early And Effective Pharmacologic Treatment In Schizophrenia.” American Journal of Managed Care 14(12), '08. (Abstract)


Talbert, Robert L. (Cota, Grabiniski, Burgess, Rogers, Edlind, Withered) “Increases In SL2T Expression And Chitin Content Are Associated With Incomplete Killing Of Candida Glabrata By Caspofungin.” Antimicrobial Agents and Chemotherapy 52, pp. 1144-1146, '08. (manuscript)

(Tzirakis, Watson) “Targeting Low HDL-Cholesterol To Decrease Residual Cardiovascular Risk In The Manage-

Schneyer, Rosa


