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2011 Bibliography of Publications

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2011 Bibliography of Publications

Compiled and edited by

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Gibson D. Lewis Health Science Library
University of North Texas Health Science Center at Fort Worth

June 2012

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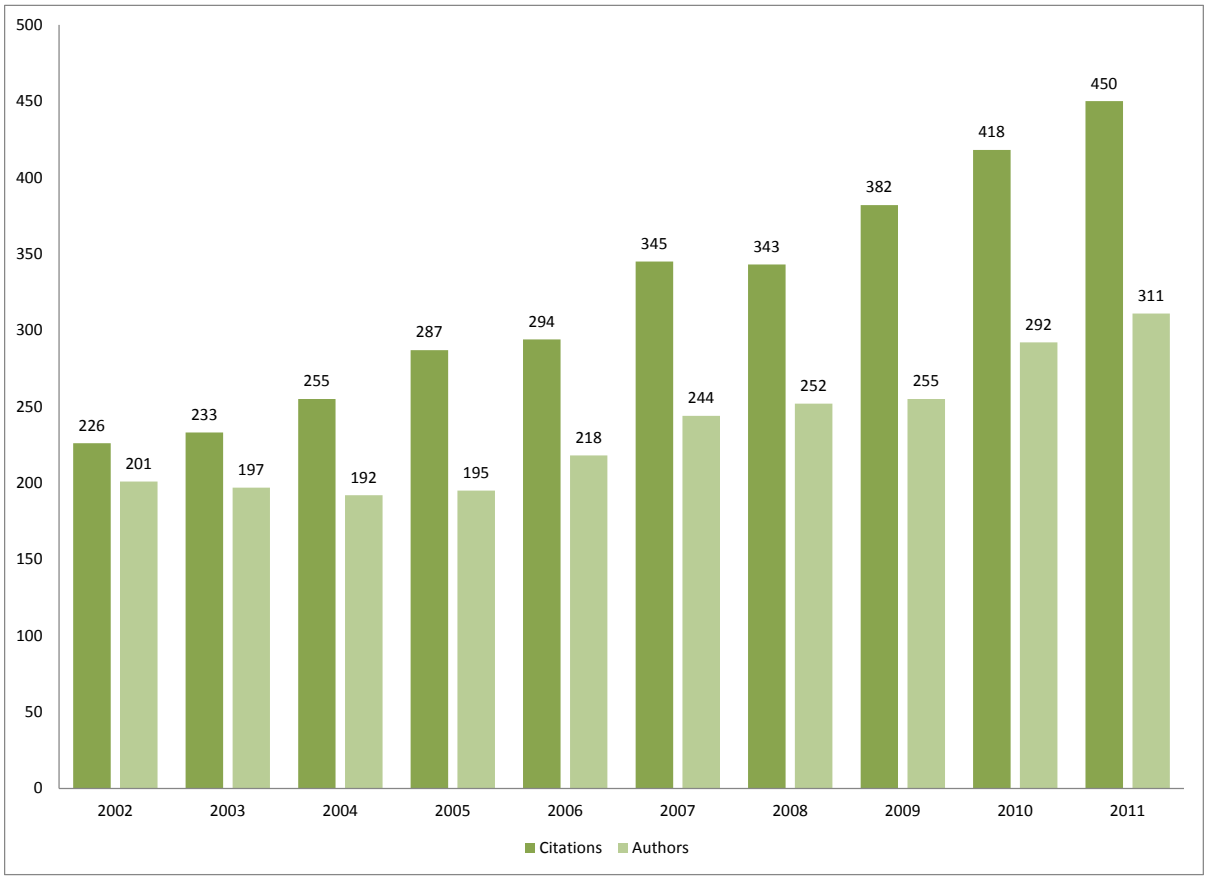
Introduction

The 2011 Bibliography of Publications cites journal articles, books, book chapters, and editorial letters, both print and electronic, published by 311 authors under the auspices of the University of North Texas Health Science Center at Fort Worth during the calendar year. We have also included 3 citations from 2010 which were not discovered in time to be included last year. The accuracy of references has been verified. This 2011 bibliography, containing 453 unique citations, provides a comprehensive listing of the publications of faculty, staff, and students, and an overview of their accomplishments and research interests.

Entries are grouped by school, then by department, and arranged alphabetically by author within each department. There are separate sections for students of the Texas College of Osteopathic Medicine, the Graduate School of Biomedical Sciences, and the School of Public Health. For collaborative works, the entry is cited under each author. The format used to cite publications follows the style established by the National Library of Medicine.

This year, for the first time, the bibliography is issued only in electronic format in the UNTHSC Scholarly Repository.



List of Journals

This is a list of the 287 journals which published articles by UNTHSC authors in 2011.

Academic Emergency Medicine (1)
ACS Nano (1)
Addictive Behaviors (2)
Advances in Experimental Medicine and Biology (1)
AIDS Research and Human Retroviruses (1)
Alcohol Research & Health (1)
Alcoholism, Clinical and Experimental Research (1)
Alcoholism Treatment Quarterly (1)
American Journal of Cardiology (6)
American Journal of Chinese Medicine (1)
American Journal of Health Promotion (1)
American Journal of Industrial Medicine (1)
American Journal of Infection Control (1)
American Journal of Managed Care (3)
American Journal of Physiology. Cell Physiology (2)
American Journal of Physiology. Heart and Circulatory Physiology (3)
American Journal of Physiology. Regulatory, Integrative and Comparative Physiology (1)
American Journal of Preventive Medicine (1)
American Journal of Public Health (2)
American Surgeon (1)
Annals of Allergy, Asthma, and Immunology (1)
Annals of Epidemiology (1)
Annals of Occupational Hygiene (1)
Annals of Thoracic Surgery (2)
Anticancer Research (1)
Antimicrobial Agents and Chemotherapy (1)
Applicable Analysis (1)
Applied and Environmental Microbiology (1)
Applied Spectroscopy (1)
Archives of Environmental & Occupational Health (1)
Archives of Gerontology and Geriatrics (1)
Archives of Pathology and Laboratory Medicine (1)
Atherosclerosis (1)
Behavioural Pharmacology (1)
Biochemical and Biophysical Research Communications (2)
Biochemical Pharmacology (1)
Biochimica et Biophysica Acta (2)
Bioorganic and Medicinal Chemistry (1)
Biophysical Journal (1)
BioPsychoSocial Medicine (1)
BJU International (2)
Blood (1)
BMC Family Practice (1)
BMC Genomics (1)
BMC Health Services Research (1)
BMC Public Health (2)
Brain Research (5)
British Journal of Cancer (1)
Canadian Family Physician (1)
Cancer Prevention Research (Philadelphia) (1)
Cancer Research (1)
Cancers (1)
Carcinogenesis (2)
Cell Cycle (1)
Cell Metabolism (1)
Cell Transplantation (2)
Cephalalgia (1)
Chemphyschem (1)
Childhood Obesity (1)
Chinese Journal of Forensic Medicine (1)
Chiropractic & Manual Therapies (1)
Circulation (1)
Circulation. Cardiovascular Imaging (1)
Cleveland Clinic Journal of Medicine (1)
Clinical Anatomy (1)
Clinical Autonomic Research (1)
Clinical Lymphoma, Myeloma & Leukemia (1)
Clinical Rheumatology (1)
CMAJ : Canadian Medical Association Journal (1)
Comparative Biochemistry and Physiology. Part A, Molecular and Integrative Physiology (1)
Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference (2)
Contact Lens & Anterior Eye (1)
Contemporary Clinical Trials (1)
Croatian Medical Journal (1)
Current Eye Research (2)
Current Pharmaceutical Biotechnology (1)
Dementia and Geriatric Cognitive Disorders (2)
Depression Research and Treatment (1)
Diabetes Care (1)
Diabetes & Metabolism Journal (1)
Disability and Rehabilitation (1)
Diseases of the Colon and Rectum (1)
DNA and Cell Biology (1)
Drug and Alcohol Dependence (1)
Drug Delivery and Translational Research (1)
Drug Discovery Today (1)
Emerging Infectious Diseases (1)
Endocrinology (3)
Environment International (2)
Environmental Research (1)
Epidemiology and Infection (1)
Epigenetics (2)
European Journal of Epidemiology (1)
European Journal of Heart Failure (1)
European Journal of Immunology (1)
European Journal of Operational Research (1)
Experimental Biology and Medicine (Maywood) (3)
Experimental Eye Research (4)
Expert Opinion on Drug Delivery (1)
Far East Journal of Theoretical Statistics (1)
Foot and Ankle International (1)
Forensic Science International. Genetics (3)
Free Radical Biology & Medicine (2)
Frontiers in Endocrinology (1)
Frontiers in Microbiology (1)

General Hospital Psychiatry (1)
Health Affairs (1)
Health Expectations (1)
Health Promotion Practice (1)
Health Psychology (2)
Health Services Research (1)
Health Services Management Research (1)
High Altitude Medicine & Biology (1)
Hormones and Behavior (1)
Human Gene Therapy (1)
Human Genetics (1)
Human Mutatation (1)
Indian Journal of Experimental Biology (1)
Indian Journal of Pharmacology (1)
Inhalation Toxicology (1)
International Archives of Occupational and Environmental Health (1)
International Heart Journal (1)
International Journal of Alzheimer's Disease (1)
International Journal of Anatomical Variations (1)
International Journal of Cancer (1)
International Journal of Chronic Obstructive Pulmonary Disease (1)
International Journal of Environmental Health Research (1)
International Journal of Environmental Research and Public Health (1)
International Journal of Geriatric Psychiatry (2)
International Journal of Legal Medicine (3)
International Journal of Obesity (1)
International Journal of Occupational Safety and Ergonomics (1)
Internet Journal of Microbiology (1)
Investigative Genetics (3)
Investigative Ophthalmology and Visual Science (16)
Islets (2)
ISRN Endocrinology (1)
JAAPA (1)
Journal of Applied Physiology (3)
Journal of Applied Statistical Science (1)
Journal of Applied Statistics (1)
Journal of Atherosclerosis and Thrombosis (1)
Journal of Bacteriology (1)
Journal of Behavioral Medicine (1)
Journal of Biological Chemistry (4)
Journal of Biomedical Optics (1)
Journal of Biomedicine & Biotechnology (1)
Journal of Bone and Joint Surgery. American Volume (1)
Journal of Cell Science (1)
Journal of Chiropractic Education (2)
Journal of Chiropractic Medicine (1)
Journal of Chromatography. B, Analytical Technologies in the Biomedical and Life Sciences (2)
Journal of Clinical Investigation (2)
Journal of Clinical Oncology (2)
Journal of Community Health (1)
Journal of Diabetes (2)
Journal of Dual Diagnosis (1)
Journal of Electromyography and Kinesiology (2)
Journal of Environmental and Public Health (1)
Journal of Epidemiology (1)
Journal of Forensic and Legal Medicine (1)
Journal of Forensic Sciences (4)
Journal of Gannan Medical University (1)
Journal of Geriatric Psychiatry and Neurology (1)
Journal of Hand Surgery. American Volume (1)
Journal of Health Psychology (1)
Journal of Hypertension (1)
Journal of Infection and Public Health (1)
Journal of Mass Spectrometry (1)
Journal of Medicinal Chemistry (3)
Journal of Microbiology (1)
Journal of Molecular and Cellular Cardiology (1)
Journal of Molecular Medicine (1)
Journal of Natural Medicines (1)
Journal of Neurochemistry (1)
Journal of Neuroendocrinology (1)
Journal of Neuroimmunology (1)
Journal of Neuroinflammation (1)
Journal of Neurologic Physical Therapy (3)
Journal of Neuroscience Research (1)
Journal of Neurosurgery. Spine (1)
Journal of Nutrition (1)
Journal of Occupational and Environmental Hygiene (2)
Journal of Orthopaedic and Sports Physical Therapy (1)
Journal of Orthopaedic Trauma (1)
Journal of Pediatric Gastroenterology and Nutrition (1)
Journal of Pharmaceutical and Biomedical Analysis (2)
Journal of Pharmacology and Experimental Therapeutics (1)
Journal of Photochemistry and Photobiology. B, Biology (2)
Journal of Physical Activity & Health (1)
Journal of Physician Assistant Education (3)
Journal of Physiology (2)
Journal of Plant Physiology (1)
Journal of Primary Care & Community Health (1)
Journal of Proteomics (2)
Journal of Psychiatric Practice (1)
Journal of Public Health Management and Practice (1)
Journal of Rural Health (1)
Journal of Safety Research (1)
Journal of School Health (1)
Journal of Sexual Medicine (1)
Journal of Singing (3)
Journal of Steroids & Hormonal Science (1)
Journal of Strength and Conditioning Research (1)
Journal of the American Board of Family Medicine (2)
Journal of the American College of Surgeons (1)
Journal of the American Osteopathic Association (4)
Journal of the Indian Society of Agricultural Statistics (1)
Journal of Theoretical Biology (1)
Journal of Trauma (1)
Journal of Urban Health (3)
Journal of Women's Health Physical Therapy (1)
Journal of Zoo and Wildlife Medicine (1)
Lab Animal (1)
Lancet Oncology (1)
Legal Medicine (Tokyo) (1)
Lung Cancer (1)
Mathematical and Computer Modeling (1)

Mechanisms of Ageing and Development (1)
Medical and Biological Engineering and Computing (1)
Medicine and Science in Sports and Exercise (2)
Methods in Molecular Biology (1)
Modern Pathology (1)
Molecular and Cellular Neurosciences (1)
Molecular Cancer Therapeutics (1)
Molecular & Cellular Proteomics (1)
Molecular Microbiology (2)
Molecular Vision (7)
Movement Disorders (1)
Nanotechnology (3)
Nature (1)
Nature Genetics (1)
Nature Reviews. Gastroenterology & Hepatology (1)
NCHS Data Brief (1)
Neoplasia (1)
Neurobiology of Aging (2)
Neuropharmacology (1)
Neuropsychiatric Disease and Treatment (1)
Neuropsychology, Development, and Cognition. Section B, Aging, Neuropsychology and Cognition (2)
Neuropsychopharmacology (1)
Neuroscience (1)
Neuroscience & Medicine (3)
New England Journal of Medicine (1)
Nuclear Medicine and Biology (1)
Nursing Education Perspectives (1)
Nutricion Hospitalaria (1)
Pancreas (1)
Patient Education and Counseling (2)
Pediatric Blood & Cancer (1)
Pharmacology & Therapeutics (1)
Physical Therapy (1)
Physiological Genomics (1)
Physiology and Behavior (1)
Phytotherapy Research (1)
Pigment Cell & Melanoma Research (1)
Plasmid (1)
PLoS One (10)
PLoS Pathogens (1)
Postgraduate Medicine (1)
Preventing Chronic Disease (1)
Proceedings of SPIE (1)
Proceedings of the National Academy of Sciences of the United States of America (2)
Progress in Community Health Partnerships (1)
Protein Cell (1)
Psychiatry Research (1)
Psychology and Aging (1)
Psychopharmacology (Berlin) (1)
Public Health Reports (1)
Respiratory Medicine (1)
Saudi Journal of Biological Sciences (1)
Science of the Total Environment (1)
Social Psychiatry and Psychiatric Epidemiology (1)
Social Science and Medicine (1)
Soft Matter (1)
South Central SAS Users Group Education Forum Proceedings (4)
Spine (1)
Spine Journal (1)
Surgery for Obesity and Related Diseases (1)
Synapse (1)
Tarrant County Physician (1)
Teaching and Teacher Education (1)
Techniques in Hand & Upper Extremity Surgery (2)
Texas Public Health Journal (1)
Toxicological Sciences (1)
Transplantation Proceedings (4)
Trends in Microbiology (1)
World Journal of Dentistry (1)

Summary of 2011 Publications by Department

Texas College of Osteopathic Medicine

Family Medicine (10)

Beltran, Nicole M. (1)
Franks, Susan F. (2)
Fulda, Kimberly G. (7)
Weiss, Stanley (1)

Internal Medicine (11)

Drewyer, Gerry (2)
Fairchild, Thomas J. (1)
Fernandez, Michel (1)
Knebl, Janice A. (1)
Munguia, Guadalupe (1)
Pogoda, Janice M. (4)
Sahbazian, Behzad (1)
Valashinas, Beth A. (1)
Weis, Stephen E. (6)

Medical Education (3)

Licciardone, John C. (3)

Obstetrics & Gynecology (3)

Anderson, Ralph J. (1)
Ransom, Scott B. (3)

Orthopedics & Podiatry (9)

Kosmopoulos, Victor (2)
Lichtman, David M. (3)
Motley, Travis A. (1)
Reddix, Robert N. (1)
Simmons, Sara (1)
Stockard, Alan R. (2)

Osteopathic Manipulative Medicine (17)

Gamber, Russell G. (3)
King, Hollis H. (8)
Kumar, Shrawan (4)
Patterson, Rita M. (3)

Pediatrics (6)

Bowman, W. Paul (5)
Lanier, Bob Q. (1)

Psychiatry & Behavioral Health (23)

Claassen, Cynthia A. (4)
Hall, James R. (13)
Mummert, Mark E. (1)
Nejtek, Vicki A. (3)
Podawiltz, Alan L. (1)
Winter, A. Scott (5)

Surgery (5)

Buchanan, Sam (1)
Guyer, Richard D. (3)
Olivencia-Yurvati, Albert (1)

Graduate School of Biomedical Sciences

Biomedical Sciences (22)

Cargill, D. Innes (1)
Carson, Dennis L. (1)
Crider, Julie Y. (3)
Kaman, Robert (1)
Matsumoto, Shinichi (14)
Napier, Leslie (1)
Patil, Rajkumar V. (2)
Roche, Eric D. (1)
Seal, Lawton A. (1)
Slade, Herbert B. (1)

Cell Biology & Anatomy (67)

Ashutosh, Fnu (1)
Braun, Terry A. (3)
Brun-Zinkernagel, Anne (1)
Bunata, Robert E. (1)
Chang, I-Fen (1)
Clark, Abbot F. (15)
Collier, Robert J. (2)
Fleenor, Debra L. (1)
Ghorpade, Anuja (5)
Gorbatyuk, Marina S. (1)
Gryczynski, Ignacy (14)
Jamison, Jeffrey A. (2)
Kim, Byung-Jin (2)
Kirchhoff, Claire A. (1)
Krishnamoorthy, Raghu R. (2)
Mao, Weiming (3)
McDowell, Colleen M.T. (2)
Reeves, Rustin (2)
Rice, Dennis S. (1)
Romano, Carmelo (2)
Sheedlo, Harold J. (1)
Siede, Wolfram (2)
Singhal, Jyotsana (5)
Stankowska, Dorota (2)
Tang, Lin (1)
Tayag, Tristan J. (1)
Tovar-Vidales, Tara (3)
Tripathi, Trivendra (1)
Wordinger, Robert J. (7)
Zhang, Zhang (1)

Forensic & Investigative Genetics (30)

Billingsley, Peggy M. (1)
Budowle, Bruce (21)
Chakraborty, Ranajit (13)
Eisenberg, Arthur J. (7)
Ge, Jianye (10)
Gill-King, Harrell (1)
Planz, John V. (1)
Roby, Rhonda (2)
Turnbough, Meredith A. (2)
Williamson, Phillip C. (3)

Integrative Physiology (42)

Bhella, Paul S. (5)
Caffrey, James L. (5)
Cunningham, Joseph T. (2)
Ding, Min (2)
Ding, Yanfeng (3)
Downey, H. Fred (5)
Dutta, Mayurika (1)
Eubank, Wendy L. (1)
Huber, Domitila A. (1)
Knight, W. David (3)
Little, Joel T. (1)
Ma, Rong (2)
Mallet, Robert T. (4)
Manukhina, Eugenia B. (4)
Mifflin, Steve W. (1)
Nedungadi, Thekkethil P. (2)
Pacchia, Christina F. (1)
Raven, Peter B. (1)
Schreihofer, Ann M. (3)
Shi, Xiangrong (4)
Smith, Michael L. (3)
Wang, Yanxia (1)

Watenpaugh, Donald E. (2)
Yamamoto, Kenta (2)

Lab Animal Medicine (2)

Daniels, Egeenee Q. (2)
Nelson, Shirley (1)

Molecular Biology & Immunology (66)

Akopova, Irina (2)
Awasthi, Sanjay (9)
Awasthi, Yogesh C. (3)
Basu, Alakananda (3)
Berg, Rance E. (2)
Borejdo, Julian (6)
Chaudhary, Pankaj (3)
Dory, Ladislav (1)
Fudala, Rafal (4)
Gryczynski, Zygmunt (17)
Guo, Jia (3)
Guo, Jianfei (1)
Hodge, Lisa M. (1)
Jones, Harlan P. (2)
Lacko, Andras G. (3)
Mathew, Porunelloor A. (1)
Mathew, Stephen O. (1)
McConathy, Walter J. (3)
Mukerjee, Anindita (3)
Nair, Maya P. (2)
Nguyen, Phung (1)
Nguyen, Vien (1)
Prokai, Laszlo (9)
Pulse, Mark E. (3)
Ranjan, Amalendu P. (5)
Romeo, Tony (5)
Sabnis, Nirupama (1)
Sharma, Abha (2)
Sharma, Rajendra (3)
Simecka, Jerry W. (2)
Singhal, Sharad S. (6)
Su, Dong Ming (1)
Vatsyayan, Rit (7)
Vishwanatha, Jamboor (15)
Weiss, William J. (2)
Yadav, Sushma (2)

Pharmacology & Neuroscience (71)

Barber, Robert C. (9)
Cunningham, Rebecca L. (2)
Das, Hriday K. (1)
Dibas, Adnan I. (1)
Forster, Michael J. (7)
Gatch, Michael B. (2)
Gregg, Elaine V. (2)
Griffin, Suzy A. (2)
Ju, Xiaohua (2)
Jun, Sujung (1)
Jung, Marianna E. (1)
Liu, Ran (3)
Luedtke, Robert R. (9)
Machu, Tina K. (1)
Metzger, Daniel B. (1)
Page, Ray D. (2)
Pang, Iok-Hou (3)
Poteet, Ethan C. (3)
Prokai-Tatrai, Katalin (3)
Rybalchenko, Nataliya (2)
Sarkar, Saumyendra N. (1)
Schetz, John A. (1)
Schreihofer, Derek A. (1)
Sharif, Naj A. (4)
Sharma, Dharmendra (3)
Simpkins, James W. (10)
Singh, Meharvan (4)
Su, Chang (2)
Sumien, Nathalie (1)
Taylor, Michelle (4)
Thangthaeng, Nopporn (1)
Uht, Rosalie M. (2)
Uteshev Gaard, Victor V. (3)
Wen, Yi (4)
Wigginton, Jane G. (3)
Winters, Ali (1)
Yan, Liang-Jun (4)
Yang, Shaohua (7)
Yi, Kun D. (2)
Yorio, Thomas (4)

School of Public Health

Behavioral & Community Health (37)

Cardarelli, Roberto (9)
DeHaven, Mark J. (3)
Kitzman-Ulrich, Heather (4)
Luna-Hollen, Mary (1)
Lurie, Sue G. (1)
Menchaca, John (1)
Morrow, James R., Jr. (8)
Reyes-Ortiz, Carlos A. (1)
Thombs, Dennis L. (3)
Urrutia-Rojas, Ximena (2)
Walters, Scott T. (7)

Biostatistics (39)

Aryal, Subhash (1)
Bae, Sejong (11)
Biswas, Swati (1)
Chen, Shande (5)
Kurian, Anita K. (1)
Moonan, Patrick K. (4)
Ndetan, Harrison (8)
Schumacker, Randall E. (2)
Singh, Karan P. (17)
Suzuki, Sumihiro (7)

Environmental & Occupational Health (13)

Choi, Kyung-Mee (4)
Larranaga, Michael D. (1)
Lin, Yu Sheng (3)
Liu, Youcheng (2)
Sterling, David A. (3)

Epidemiology (32)

Cardarelli, Kathryn M. (2)
Faramawi, Mohammed F. (6)
Felini, Martha J. (6)
Filardo, Giovanni (7)
Fischbach, Lori A. (3)
Jackson, Rachael (1)
Johnson, Eric S. (10)
Mikler, Armin R. (1)
Qualls-Hampton, Raquel (3)
Ramisetty-Mikler, Suhasini (1)
Wong, Otto (1)
Zhang, Fang Fang (3)

Health Management & Policy (28)

Blanck, Ronald R. (1)
Chen, Hsueh F. (2)
Fleming, Neil S. (1)
Hanoch, Yaniv (3)
Hooker, Roderick S. (11)
Kalish, M. Christine (2)
Kurz, Richard S. (2)
Lykens, Kristine A. (1)
Miller, Thaddeus (1)
O'Neill, Liam (1)
Pagan, Jose A. (7)

Texas Prevention Institute (4)

Balyakina, Elizabeth (1)
Espinoza, Anna M. (3)
Lafayette, Camille L. (1)
Linnear, Kim M. (1)

School of Health Professions

Physical Therapy (9)

Bugnariu, Nicoleta (1)
Holmes, Clayton F. (2)
Liu, Hao (3)
Nordon-Craft, Amy (1)
Salem, Yasser (3)

Academic & Institutional Resources & Technology

Center for Learning & Development (6)

Huang, Kun (1)
Su, Fenghsiu (4)

Professional & Continuing Education (1)

Crim, Andrew D. (1)
McFadden, Pam (1)

Students

Texas College of Osteopathic Medicine (6)

Aldy, Kim N. (3)
Cromeens, Barrett (2)
Gurji, Hunaid A. (1)

Graduate School of Biomedical Sciences (51)

Abbassi, Babak (1)
Aranda, Xavier G. (1)
Borgmann, Kathleen (4)
Break, Timothy J. (2)
Clark, Kari G. (2)
Daudt, Donald R. (1)
Davis, Carey P. (2)
Dumka, Vinayak (2)
Graham, Sarabeth (2)
Horton, Nathan C. (1)
Indramohan, Mohanalaxmi (2)
Jain, Ankur (1)
Jain, Kirti (1)
Jasti, Dinesh (1)
Kokate, Rutika A. (1)
Kpetemey, Marilyne (1)
Leake, Kathryn L. (1)
Lelsani, Poorna C. (4)
Li, Wenjun (2)
Midde, Krishna (2)
Mody, Avani A. (1)
Nagaprashantha, Lokesh (5)
Payne, Andrew J. (1)
Phillips, Nicole (1)
Purkayastha, Sushmita (1)
Raut, Sangram L. (3)
Richardson, Timothy E. (1)
Roso, Matthew B. (1)
Sahu, Mukesh (1)
Salwe, Kirtigandh (1)
Sarkar, Pabak (3)
Schmedes, Sarah (2)
Sethi, Anirudh (3)
Sridharan, Savitha (2)
Tan, Cong (1)
Thamake, Sanjay I. (3)
Valapala, Mallika (2)
Vecino, Mauricio (1)
White, Daniel W. (1)

School of Public Health (24)

Atienza, Philamer (2)
Avina, Aldo (1)
Bain, Tyson M. (2)
Bangara, Saritha (2)
Bankuru, Satish (1)
Cervantes, Diana T. (1)
Ebama, Malembe S. (1)
Evans, Eva L. (2)
Hogan, Sandy-Asari (1)
Hood, Joyce (2)
Jackson, Bradford E. (4)
Kader, Elyse (1)
Lingineni, Ravi (2)
Lo, Kaming (3)
Ojha, Rohit P. (4)
Priest, Elisa L. (2)
Ryan, Elyse (1)
Wendling, Tracy (1)

The number in parentheses is the total number of citations for each department and for each author. The sum of individual totals may exceed departmental totals due to multiple authorship.

Texas College of Osteopathic Medicine

Family Medicine

Nicole M. Beltran
Program/Project Coordinator I

Fulda KG, Hahn KA, Young RA, Marshall JD, Moore BJ, Espinoza AM, Beltran NM, McFadden P, Crim AD, Cardarelli R. **Recruiting Practice-based Research Network (PBRN) physicians to be research participants: lessons learned from the North Texas (NorTex) needs assessment study.** Journal of the American Board of Family Medicine : JABFM 2011 Sep-Oct;24(5):610-5.

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Victor Kosmopoulos, Ph.D.
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