

**APPENDIX 1. 2007-2008 Active External Research Grants**

Principal Investigator [Co-Investigator]	Title	Agency	Period	Total award to COM	Received in 2007-08
Akbar, Huzoor	Role and Mechanism of Action of Rac GTPases in Regulation of Platelet Function	American Heart Association	07/05-12/07	\$121,000	\$0
Berryman, Mark [Tanda, Soichi* - 30%]	Role of Clic in Epithelial Morphogenesis	National Institutes of Health	04/08-03/10	\$154,875	\$154,875
Blazyk, Jack [Biegalka, Bonita - 10%]	Design of Novel Linear Cationic Peptides	National Institutes of Health	08/06-07/09	\$220,500	\$0
Brose, John [Watson, Keith - 33%] [Howell, John - 33%] [Schwartz, Frank - 33%]	Osteopathic Research, Education & Training	Osteopathic Heritage Foundation	09/05-08/10	\$1,461,289	\$382,018
Coschigano, Karen [Hikida, Robert - 5%] [Malgor, Ramiro - 10%]	Cross-talk Between Growth Hormone and Inflammation Pathways in Kidney Damage	National Institutes of Health	03/08-03/10	\$221,250	\$221,250
deGroot, Mary* [Schwartz, Frank - 0%] [Shubrook, Jay - 0%]	Depression Treatment for Type 2 Diabetes Appalachian	National Institutes of Health	04/06-03/08	\$0	\$0
Eastman, Joseph	Biodiversity, Buoyancy and Morphological Studies of Non-antarctic Notothenioid Fishes	National Science Foundation	04/05-03/08	\$149,563	\$0
Grijalva, Mario	Research Capability Strengthening of Catholic University of Ecuador	Catholic University - Ecuador	12/05-06/08	\$24,285	\$0
Grijalva, Mario	Pilot Program for the Chagas Disease Control in Loja Province, Ecuador	Children's Heartlink	05/07-04/08	\$17,216	\$0
Grijalva, Mario	Research Capability Strengthening of Catholic University of Ecuador	Catholic University - Ecuador	11/06-11/08	\$9,553	\$9,553
Grijalva, Mario	Characterization of Trypanosoma Cruzi in Southern Ecuador	National Institutes of Health	04/08-03/10	\$181,655	\$181,655
Grijalva, Mario	Research & Training Capability Strengthening of Catholic University of Ecuador	Catholic University - Ecuador	04/08-06/10	\$30,000	\$30,000
Grijalva, Mario	Continuation of Pilot Chagas Disease Control Program in Loja Province, Ecuador	Children's Heartlink	05/08-04/09	\$20,000	\$20,000
Grijalva, Mario	Research and Training Capability Strengthening of Catholic University of Ecuador	Catholic University - Ecuador	11/07-11/08	\$3,150	\$3,150
Heckman, Timothy	A Coping Intervention for HIV-Infected Older Adults	National Institutes of Health	04/04-03/08	\$1,858,285	\$0
Heckman, Timothy	Telephone-delivered Coping Improvement Intervention for HIV-Infected Older Adults	National Institutes of Health	08/06-07/10	\$1,484,862	\$372,516

Principal Investigator [Co-Investigator]	Title	Agency	Period	Total award to COM	Received in 2007-08
Heckman, Timothy	Development of an HIV Medication Adherence Intervention via Videophones	National Institutes of Health - Myers Research Institute	07/07-06/10	<b>\$212,748</b>	<b>\$70,046</b>
Howell, John [Eland, David - 25%] [Burns, Janet - 25%] [Williams, Robert L* - 25%]	The Virtual Haptic Back for Osteopathic Training	Osteopathic Heritage Foundation	10/02-10/07	<b>\$870,215</b>	<b>\$0</b>
Howell, John [Clark, Brian - 40%] [Eland, David - 10%] [Walkowski, Stevan - 2%] [Benseler, Jeffrey - 2%]	A Pilot Magnetic Resonance Imaging (MRI) Study of Osteopathic Manipulative Treatment (OMT) of Acute Low Back Pain	Osteopathic Heritage Foundation	08/07-08/08	<b>\$39,000</b>	<b>\$39,000</b>
Ice, Gillian	Gender, Caregiving and Nutrition among Luo Grandparents	National Science Foundation	08/05-07/08	<b>\$265,000</b>	<b>\$0</b>
Inman, Sharon [Nowak, Felicia - 50%]	Antioxidants on Development of Diabetic Nephropathy	National Institutes of Health	01/06-12/08	<b>\$217,303</b>	<b>\$0</b>
Kopchick, John	Interaction of Caloric Restriction with Longevity Genes	National Institutes of Health -Southern Illinois University	09/06-08/11	<b>\$226,379</b>	<b>\$45,276</b>
Kopchick, John	Proteomic Analysis of Serum Exposed to GH: A Future Assay for Detection of GH Doping	Aarhus University Hospital	01/07-12/09	<b>\$240,000</b>	<b>\$80,000</b>
Kopchick, John [Kelder, Bruce* - 0%] [List, Edward* - 0%]	Creation and Characterization of GH Binding Protein Gene Disrupted Mice	National Institutes of Health	07/07-06/10	<b>\$220,500</b>	<b>\$220,500</b>
Kopchick, John [Okada, Shigeru - 50%]	Assay for GH Activity	Pfizer	01/07-12/07	<b>\$110,946</b>	<b>\$0</b>
Kopchick, John	Glyco GH, GH Antagonists and Members of GH Family: Production and Characterization	Diathegen	07/05-12/07	<b>\$433,234</b>	<b>\$0</b>
Li, Yang	Elevated Zinc in Ischemia and Reperfusion	National Institutes of Health	04/06-03/08	<b>\$220,500</b>	<b>\$0</b>
Li, Yang	Vesicular Zinc of Recurrent Mossy Fiber in Epilepsy	National Institutes of Health	09/07-08/09	<b>\$220,500</b>	<b>\$220,500</b>
O'Connor, Patrick [Stevens, Nancy - 40%]	Closing the African Gap- Cretaceous and Paleogene Paleontology in the Rukwas Rift Basin, SW Tanzania	National Science Foundation	08/06-08/08	<b>\$245,208</b>	<b>\$111,834</b>
O'Connor, Patrick	CT Scanning Madagascar Fossils for Exhibit and Symposium at the National Museum of Japan	Yomiuri Group	04/08-03/09	<b>\$6,275</b>	<b>\$6,275</b>
Reilly, Stephen* [Biknevicus, Audrone - 34%]	Locomotor Constraints & Innovations in Primitive Mammals	National Science Foundation	08/05-07/08	<b>\$123,503</b>	<b>\$0</b>

Principal Investigator [Co-Investigator]	Title	Agency	Period	Total award to COM	Received in 2007-08
Schwartz, Frank [Shubrook, Jay - 50%]	A Randomized, Double-blind, Parallel-group, Multicenter Study to Compare the Glycemic Effects, Safety, and Tolerability of Exenatide Long-acting Release to Those of Sitagliptin and Pioglitazone in Subjects with Type 2 Diabetes Mellitus Treated with Metformin	Amylin Pharmaceuticals, Inc.	9/07-11/08	\$0	\$0
Shubrook, Jay [Simpson, Chris - 16%] [Clem, Andrea - 16%] [Schwartz, Frank - 16%] [Brose, John - 16%]	CV 181-013 Clinical Drug Trial	Bristol-Myers Squibb	03/06-02/08	\$1,250	\$0
Shubrook, Jay [Simpson, Chris - 33%] [Brose, John - 33%]	JUPITER Clinical Drug Trial	Astra Zeneca	10/04-12/08	\$309	\$0
Shubrook, Jay [Wapner, Andy - 50%]	TAKE ACTION 2	Athens Foundation	06/08-12/08	\$3,780	\$3,780
Simpson, Martha	Partners in Technology to Improve Patient Safety - Phase III	Ohio Medical Quality Foundation	01/07-06/08	\$133,619	\$0
Stevens, Nancy [O'Connor, Patrick - 45%]	A View from both Sides of the K-T Boundary: Cretaceous and Paleontology of the Rukwa Basin, Southwestern Tanzania	National Geographic Society	08/06-08/07	\$18,490	\$0
Williams, Robert L. II* [Burns, Janet - 5%] [Howell, John - 5%]	Haptic Modules for Palpatory Diagnosis Training	Brentwood Foundation	01/08-12/09	\$10,236	\$5,999
Williams, Susan	Collaborative Research: Ecological and Functional Morphology of Feeding in Free-Ranging Mantled Howling Monkeys	National Science Foundation	05/08-12/08	\$6,200	\$6,200
Williams, Susan	Craniofacial Biomechanics and Symphyseal Function in Camelids: In Vivo and Comparative Studies in Form and Function	National Science Foundation	07/05-07/08	\$181,276	\$0
Williams, Susan	Collaborative Research: Ecological and Functional Morphology of Feeding in the Free-Ranging Mantled Howling Monkeys	National Science Foundation	09/07-08/09	\$91,784	\$50,542
Witmer, Larry	Brain Evolution in Archosaurs: New Implications for Scaling, Function and Evolution of the Modern Conditions in Birds and Crocodylians	National Science Foundation	07/05-06/08	\$171,262	\$0
			<b>TOTAL:</b>	<b>\$10,227,000</b>	<b>\$2,234,969</b>

\* indicates PI or Co-I is not affiliated with OU-COM

**APPENDIX 2. 2007-2008 Research Grant Proposals Submitted**

<b>Principal Investigator</b>	<b>Title</b>	<b>Agency</b>	<b>Period</b>	<b>Amount Requested</b>	<b>Status</b>
Akbar, Huzoor [Chen, Xiaozhuo]	Novel Insulin Mimetic Small Molecules as Antithrombotic Agents	American Diabetes Association	01/08-12/10	<b>\$200,000</b>	Denied
Akbar, Huzoor [Chen, Xiaozhuo]	Novel insulin mimetic small molecules as antithrombotic agents	American Heart Association	07/08-06/10	<b>\$108,900</b>	Denied
Akbar, Huzoor [Chen, Xiaozhuo]	Novel insulin mimetic small molecules as antithrombotic agents	American Diabetes Association	07/08-06/11	<b>\$270,000</b>	Denied
Akbar, Huzoor [Chen, Xiaozhuo]	Novel insulin mimetic small molecules as antithrombotic agents	National Institutes of Health	12/08-11/10	<b>\$177,000</b>	Denied
Benencia, Fabian [Malgor, Ramiro]	Early inflammation as a therapeutic target for pancreatic cancer	American Association of Cancer Research	07/08-06/10	<b>\$100,000</b>	Denied
Benencia, Fabian [McCall, Kelly]	Therapeutic effect of abrogating initial inflammation in pancreatic cancer	American Association of Cancer Research	07/08-06/10	<b>\$100,000</b>	Denied
Benencia, Fabian	The role of the tumor microenvironment in the efficacy of dendritic cell vaccines	Sidney Kimmel Foundation	07/08-06/10	<b>\$200,000</b>	Denied
Benencia, Fabian	Dendritic cell contribution to atherosclerosis development	American Heart Association	07/08-06/10	<b>\$108,900</b>	Denied
Benencia, Fabian	Effect of tumor factors on dendritic cell vaccines in ovarian cancer	Ohio Cancer Research Associates	07/08-06/10	<b>\$50,000</b>	Denied
Benencia, Fabian	Recruitment of bone marrow hematopoietic stem cells to tumors	National Institutes of Health	12/08-11/10	<b>\$221,250</b>	Pending
Benencia, Fabian	Modulation of dendritic cell vaccines by ovarian cancer microenvironment	Mary Kay Ash Foundation	07/08-06/10	<b>\$100,000</b>	Denied
Benencia, Fabian [Malgor, Ramiro]	Immunomodulation Of Mature Dendritic Cells By The Tumor Microenvironment	National Institutes of Health	04/09-03/14	<b>\$1,090,800</b>	Pending
Brannan, Grace	Identification of unique qualities and characteristics of the osteopathic physician	Colorado Springs Osteopathic Foundation	09/08-08/10	<b>\$21,509</b>	Pending
Burns, Janet [Howell, John]	Does the virtual haptic back train better palpators for the clinic?	American Academy of Osteopathy	01/08-12/09	<b>\$49,967</b>	Denied
Chen, Xiaozhou [Li, Yang]	Inhibition of basal glucose transport and apoptosis in cancer cells	National Institutes of Health	12/08-11/10	<b>\$271,769</b>	Denied
Chen, Xiaozhou [Li, Yang]	Zinc's role in insulin-mediated glucose transport	National Institutes of Health	12/08-11/10	<b>\$221,250</b>	Denied
Chen, Liwei* [Li, Yang]	Novel Neural Mechanotransduction via Piezoelectric Nanowires	National Institutes of Health	12/08-11/10	<b>\$210,346</b>	Denied
Clark, Brian	Neural Adaptations to Immobilization	National Football League Charities	01/09-06/10	<b>\$125,000</b>	Pending
Clark, Brian	Acute response to blood flow restricted exercise	National Institutes of Health	04/08-03/10	<b>\$6,214</b>	Denied
Clark, Brian [Heh, Victor] [Staron, Bob]	Control mechanisms of maximal force output	National Institutes of Health	12/08-11/11	<b>\$199,125</b>	Denied
Clark, Brian	Relative safety of blood flow restricted resistance exercise	American College of Sports Medicine	07/08-06/09	<b>\$10,000</b>	Denied
Clark, Brian	Blood flow restricted exercise to promote skeletal muscle health	National Institutes of Health	07/08-06/11	<b>\$180,950</b>	Denied

Principal Investigator	Title	Agency	Period	Amount Requested	Status
Denham, Sharon* [Schwartz, Frank]	Empowering families: family co-management of type 2 diabetes	American Association of Diabetes Educators	09/07-08/09	<b>\$8,625</b>	Denied
Gerardo, Michael P [Ice, Gillian]	Racial and ethnic differences in the quality of care provided to older adults with chronic illness	Robert Wood Johnson Foundation	06/08-05/09	<b>\$55,000</b>	Denied
Grijalva, Mario	Research & Training Capability Strengthening of Catholic University of Ecuador	Catholic University - Ecuador	04/08-06/10	<b>\$30,000</b>	Funded
Grijalva, Mario	The Effects of Environmental Variables on West Nile Virus Infection Rates in Culex Mosquitoes Using an 'Ecological Niche' Type Model	Ohio Mosquito Control Association	06/08-06/09	<b>\$1,000</b>	Pending
Grijalva, Mario	Research and training capability strengthening of catholic university of Ecuador	Catholic University - Ecuador	11/07-11/08	<b>\$3,150</b>	Funded
Grijalva, Mario	Research & Training Capability Strengthening of Catholic University of Ecuador	Catholic University - Ecuador	04/08-06/10	<b>\$30,000</b>	Funded
Grijalva, Mario	Continuation of Pilot Chagas Disease Control Program in Loja Province, Ecuador	Children's Heartlink	05/08-04/09	<b>\$20,000</b>	Funded
Hamel-Lambert, Jane	Mental health communications and service use by rural appalachian children	National Institutes of Health	12/08-11/10	<b>\$242,449</b>	Denied
Heckman, Bernadette* [Heckman, Timothy] [Heh, Victor]	Telephone Intervention to Reduce Relapse in Adolescents	National Institutes of Health	04/09-03/11	<b>\$194,135</b>	Pending
Horodyski, Frank	Molecular and functional characterization of the allatropin receptor	National Science Foundation	04/08-03/11	<b>\$0</b>	Denied
Horodyski, Frank	Molecular and functional characterization of the allatotropin receptor	National Science Foundation	11/08-10/11	<b>\$420,000</b>	Funded
Howell, John [Clark, Brian] [Eland, David]	A pilot magnetic resonance imaging (MRI) study of osteopathic manipulative treatment (OMT) of acute low back pain	Osteopathic Heritage Foundation	08/07-08/08	<b>\$39,000</b>	Funded
Ice, Gillian	The impact of orphanhood on the growth and nutrition of Luo children	National Science Foundation	01/08-03/08	<b>\$15,000</b>	Denied
Inman, Sharon [Nowak, Felicia]	Role of antioxidants and nitric oxide in renal ischemia/reperfusion injury	National Kidney Foundation	07/08-06/09	<b>\$9,378</b>	Denied
James, Calvin [Kopchick, John]	Role of protein kinase C on temporal regulation of polymerase III transcription	National Institutes of Health	07/08-06/10	<b>\$221,250</b>	Denied
Kopchick, John	Mechanisms of Prostate Cancer Prevention by Down-Regulation of the GH/IGF Axis	University of Illinois - Department of Defense	09/09-08/12	<b>\$66,375</b>	Pending
Kopchick, John	Growth hormone/growth hormone receptor interactions	Diathegen	11/07-02/08	<b>\$70,468</b>	Denied
Kopchick, John	Biopotency of mouse pituitary growth hormone after a 30 day space flight	National Aeronautics and Space Administration	01/10-12/11	<b>\$20,000</b>	Pending
Li, Yang	Zinc and ischemic brain injury	National Institutes of Health	04/08-03/13	<b>\$1,455,900</b>	Denied

Principal Investigator	Title	Agency	Period	Amount Requested	Status
Li, Yang	Synaptic zinc and mossy fiber-CA3 LTP	National Institutes of Health	07/08-06/10	\$221,250	Denied
Li, Yang	Elevated zinc in ischemia and reperfusion	National Institutes of Health	12/08-11/13	\$1,483,444	Denied
Malgor, Ramiro [McCall, Kelly]	Understanding Wnt5a and TLR-4 cross-signaling during Atherosclerosis	National Institutes of Health	04/09-03/11	\$165,938	Pending
McCall, Kelly [Kohn, Len] [Malgor, Ramiro] [Schwartz, Frank]	Toll-like Receptor 3 in Type 1 Diabetes and Efficacy of a Novel Therapeutic	Juvenile Diabetes Research Foundation	07/08-06/09	\$110,000	Pending
McCall, Kelly [Kohn, Len] [Malgor, Ramiro] [Schwartz, Frank]	Role of TLR3 in T1D and efficacy of a novel therapeutic	National Institutes of Health	12/08-11/10	\$221,250	Denied
McCall, Kelly [Benencia, Fabian]	Therapeutic effect of phenylmethimazole, a specific toll-like receptor inhibitor on breast cancer	Susan G. Komen Breast Cancer Foundation, Inc.	03/08-02/10	\$400,000	Denied
Meyer, Deborah [Carlsen, Wayne] [Heh, Victor] [McGrew, Sarah] [Shubrook, Jay] [Schwartz, Frank]	Chronic disease management in Ohio Appalachian elderly	National Institutes of Health	12/08-11/10	\$188,063	Denied
Murphy, Erin	Temperature dependent regulation of <i>S. dysenteriae</i> heme receptor	National Institutes of Health	12/08-11/10	\$221,250	Denied
Nowak, Felicia [Li, Yang]	Role of Rho-like GTPase, PORF-2 on cell fate in CNS	National Institutes of Health	12/08-11/11	\$221,250	Denied
O'Connor, Patrick	CT Scanning Madagascar Fossils for Exhibit and Symposium at the National Museum of Japan	Yomiuri Group	04/08-03/09	\$6,275	Funded
Schwartz, Frank [Shubrook, Jay]	A novel decision support system for diabetes management	National Institutes of Health	07/08-06/10	\$243,375	Denied
Schwartz, Frank [Shubrook, Jay]	A randomized, double-blind, parallel-group, multicenter study to compare the glycemic effects, safety, and tolerability of exenatide long-acting release to those of sitagliptin and pioglitazone in subjects with type 2 diabetes mellitus treated with Metformin	Amylin Pharmaceuticals, Inc.	9/07-11/08	\$0	Funded
Shubrook, Jay [Carlsen, Wayne] [Sammons, James]	A phase III, double-blind, randomized placebo-controlled study to evaluate the effects of RO4607381 on cardiovascular (CV) risk in stable CHD patients, with a documented recent Acute Coronary Syndrome (ACS)	Hoffman-LaRoche, Ltd.	Dates pending	\$0	Pending
Shubrook, Jay	Diabetes Fellowship for Primary Care Physicians	Takeda Pharmaceuticals	07/08-06/09	\$3,965	Funded
Shubrook, Jay	Diabetes Fellowship for Primary Care Physicians	Novo Nordisk	07/08-06/09	\$6,000	Funded
Shubrook, Jay [Wapner, Andy]	TAKE ACTION 2	Athens Foundation	06/08-12/08	\$3,780	Funded
Shubrook, Jay [Wapner, Andy]	TAKE ACTION 2	Pfizer - American Osteopathic Foundation	06/08-12/08	\$4,500	Pending

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Shubrook, Jay [Wapner, Andy] [Bianco, Joseph]	TAKE ACTION 2	American Association of Family Physicians	06/08-05/09	\$4,500	Pending
Shubrook, Jay [Wapner, Andy] [Bianco, Joseph]	TAKE ACTION 2: Teamwork with Age-Appropriate Kids Exercise in Appalachia with Interventions for Overweight and Nutrition	Saucony Run for Good Foundation	06/08-05/09	\$9,000	Pending
Shubrook, Jay [Schwartz, Frank]	A randomized, double-blind, placebo-controlled, 2-arm parallel-group, multicenter study with a 24-week main treatment period and an extension assessing the efficacy and safety of AVE0010 in patients with Type 2 diabetes insufficiently controlled with bas	Sanofi-Aventis US, Inc	08/08-07/24	\$0	Pending
Slyvka, Yuriy [Nowak, Felicia]	Role of NOS isoforms and splice variants In diabetic nephropathy	National Institutes of Health	07/08-06/11	\$153,822	Denied
Stork, Christian [Li, Yang]	Zinc's role in cerebral ischemia: interactions with Ca and mechanisms of damage	National Institutes of Health	04/08-03/11	\$122,916	Denied
Williams, Susan	Collaborative Research: Ecological and functional morphology of feeding in free-ranging mantled howling monkeys	National Science Foundation	05/08-12/08	\$6,200	Funded
Williams, Robert L. II* [Howell, John]	Extension of the virtual haptic back for advanced palpatory diagnosis with motion testing	American Osteopathic Association	01/08-12/09	\$20,000	Denied
Williams, Robert L. II* [Howell, John]	Haptic modules for palpatory diagnosis training	Brentwood Foundation	01/08-12/09	\$10,236	Funded
Williams, Robert L. II* [Burns, Janet] [Clark, Brian] [Eland, David] [Howell, John]	Lumbar muscle compliance and edema in low-back pain and spinal manipulation	National Institutes of Health	12/08-11/10	\$137,913	Denied
Wilson, Thad	In vivo characterization of agonist-induced sweating in humans	National Institutes of Health	04/09-03/12	\$221,250	Pending

\* PI is not affiliated with OUCOM

**TOTAL SUBMITTED:**

**\$10,889,637**

**TOTAL FUNDED:**

**\$578,606**

**TOTAL PENDING:**

**\$1,753,569**