# Jon-Philippe K. Hyatt

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# **Professional experience**

2016-pres	Associate Professor College of Integrative Sciences and Arts Honors Faculty, Barrett, The Honors College Arizona State University <u>https://isearch.asu.edu/profile/3008807</u>		
2010-2016	Associate Professor Department of Human Science Georgetown University Interim Department Chair (07/2010 – 12/2011)		
2004-2010	Assistant Professor Department of Human Science Georgetown University		
2003-2004	Postdoctoral Fellow, National Institutes of Health National Institute of Arthritis and Musculoskeletal Diseases (NIAMS)		
2002-2003	Post doctorate, University of California, Los Angeles Neuromuscular Physiology		
<b>Education</b>			
1997-2002	<ul> <li>Ph.D. University of California, Los Angeles</li> <li>Molecular, Cellular, and Integrative Physiology</li> <li>Advisor: V. Reggie Edgerton</li> <li>The neural modulation of MyoD, Myogenin, and the satellite cell in adult skeletal muscle.</li> </ul>		
1994-1997	M.S. University of Massachusetts, Amherst Exercise Science (emphasis: biochemistry) Advisor: Priscilla M. Clarkson ( <i>deceased</i> ) <i>Thesis</i> : Release and clearance of creatine kinase-MM isoforms following repeated bouts of soreness-inducing exercise.		
1989-1993	<ul> <li>A.B. Occidental College, Los Angeles, CA</li> <li>Exercise Science (emphasis: biomechanics)</li> <li>Advisor: Stuart G. Rugg</li> <li>Minor: History (emphasis: science and medical history)</li> </ul>		

# <u>Grants</u>

Complete	<u>d</u>				
ISSR (Firetto, ASU) 06/2020-06/2021 Arizona State University \$8,000 Leveraging collaborative in-class learning exercises (CICLEs) to promote a deeper understanding of anatomy and physiology. Role: Co-PI					
VJ95022(Firetto, ASU)05/2018-08/2018Arizona State University\$13,525Supporting undergraduate students' construction of an integrated understanding of anatomy and physiology. Role: Co-PI (15%)Role: Co-PI (15%)					
Tablet-bas	wn University	(Tilan, Georgetown)	01/2015-06/2017 \$15,000 piological sciences		
1 D18HP13620 ( Health Resources and Services Ad Pathways to Success Role: PI (40%)		(Hyatt) Administration (HRSA)	09/01/2009 – 08/31/2013 \$1,147,024		
1 R15AR060469-01A1 NIH/NIAMS (subcontract) VEGF and Skeletal Muscle Adapt Role: Co-I (5%)		(Huey, Drake University)	09/2011-08/2013 \$19,423		
No award number Goldman Sachs Foundation Pathways to Success Program Role: Co-PI (15%)		(Evans, Georgetown)	10/01/2005 – 09/30/2009 \$510,000		
1R25RR17429 NIH / NCRR Community Building to Promote Role: Co-I (10%)		(Evans, Georgetown) Biomedical Health Careers	09/30/2002 - 08/31/2005 \$322,732		
<u>Awards</u>					
2009 <u>Faculty Excellence Award</u> Department of Human Science, Georgetown University					
2003-4	<u>NIH Intramural Research Training Award (IRTA)</u> National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)				
2002	Environmental and Exercise Physiology Steering Committee Gatorade Young Investigator Award American Physiological Society				

2001	<u>UCLA Faculty Research Grant</u> - \$2,500 (co-author V. Reggie Edgerton, faculty advisor) Electrical activity-independent regulation of MyoD, Myogenin, and satellite cells in adult skeletal muscle		
2001	<u>Sigma Xi Society Student Grant</u> - \$350 Neural influence on MyoD and Myogenin mRNA and protein expression in skeletal muscle		
2001	Graduate Division Travel Grant, UCLA - \$600		
2000	<u>UCLA Faculty Research Grant</u> - \$1,500 (co-author V. Reggie Edgerton, faculty advisor) Dystrophin restoration using pluripotent adult skeletal muscle stem cells		
2000	<u>American College of Sports Medicine Pre-Doctoral Foundation Grant</u> - \$5,219 The role of muscle stem cells following skeletal muscle damage		
1999	<u>Sigma Xi Society Student Grant</u> - \$862 Do intramuscular-derived mitogens commit muscle stem cells to a myogenic lineage?		
1997-8	Doctoral Student Fellowship, Dept. of Physiological Science, UCLA		
1997	Graduate Division Travel Grant, Univ. Massachusetts, Amherst - \$150		
1996	Graduate Division Travel Grant, Univ. Massachusetts, Amherst - \$100		
1993	Distinction: qualifying exams, Dept. of Exercise Science, Occidental College		

# Peer-reviewed Journal Publications

# **IF: Impact Factor; Journal Ranking (Discipline)**

\*undergraduate student co-authors †contributed equally to the work

- Hyatt JPK. MOTS-c increases in skeletal muscle following long-term physical activity and improves acute exercise performance after a single dose. *Physiological Reports* 10 (13): e15377, 2022. doi: 10.14814/PHY2.15377. IF: 2.26; 95/165 (Physiology)
- Hyatt JPK, Mattison JA, de Cabo R. Resveratrol blunts losses in mitochondrial content in slow and, to a lesser degree, mixed skeletal muscle phenotypes of non-human primates following a long-term high fat / sugar diet. *Journal of Dietary Supplements* In press, 2022. doi: 10.1080/19390211.2022.2039340. IF: 2.27
- Hyatt JPK, Brown EA\*, Deacon HM\*, McCall GE. Muscle-specific sensitivity to voluntary physical activity and detraining. *Frontiers in Physiology: Exercise Physiology* 10: 1328, 2019. doi: 10.3389/fphys.2019.01328. IF: 3.201; 25/81 (Physiology)
- Hyatt JPK, Bienenstock EJ, Tilan JU. A student guide to proofreading and writing in science. Advances in Physiology Education 41: 324-331, 2017. doi:10.1152/advan.00004.2017. IF: 1.723; 13/40 (Education, Science Disciplines) Altmetric Score: 88; Downloads: 16,393 (Jul. 2022)
- **Hyatt JPK**, Nguyen L, Hall AE\*, Huber AM\*, Kocan JC\*, Mattison JA, de Cabo R, LaRocque JR, Talmadge RJ. Muscle-specific myosin heavy chain shifts in response to a long-term high fat / high sugar diet and resveratrol treatment in nonhuman primates. *Frontiers in Physiology: Striated*

*Muscle Physiology* 7: 77, 2016. doi: 10.3389/fphys.2016.00077 IF: 4.031; 14/83 (Physiology) Altmetric Score: 188; Online views: 24,713 (Jul. 2022)

- Parvaresh KC\*, Huber AM\*, Brochin RL\*, Bacon PL\*, McCall GE, Huey KA, Hyatt JPK. Acute vascular endothelial growth factor expression during hypertrophy is muscle phenotype-specific and localizes as a striated pattern within fibers. *Experimental Physiology* 95(11): 1098-1106, 2010. doi: 10.1113/expphysiol.2010.053959. (*November on-line cover*) IF: 3.168; 26/75 (Physiology)
- Hyatt JPK, Hurst SA. Novel undergraduate physiology laboratory using a human patient simulator. *Medical Education* 44(5): 523, 2010. doi: 10.1111/j.1365-2923.2010.03651.x. IF: 2.696; 1/27 (Education, Science Disciplines)
- Hyatt JPK, Roy RR, Rugg SG, Talmadge RJ. Myosin heavy chain composition of tiger (*Panthera tigris*) and cheetah (*Acinonyx jubatus*) hindlimb muscles. *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology* 313(1): 45-57, 2010. doi: 10.1002/jez.574. IF: 1.549; 33/127 (Zoology)
- Hyatt JPK, McCall GE, Kander EM\*, Zhong H, Roy RR, Huey KA. Pax3/7 expression coincides with MyoD during chronic skeletal muscle overload. doi: 10.1002/mus.21006. *Muscle and Nerve* 38(1): 861-866, 2008. IF: 2.594; 112/219 (Neurosciences)
- Pae EK<sup>†</sup>, Hyatt JPK<sup>†</sup>, Wu J, Chien P. Short-term electrical stimulation alters tongue muscle fiber type composition. *Archives of Oral Biology* 52(6): 544-551, 2007. doi: 10.1016/j.archoralbio.2006.12.002. IF: 1.379; 29/55 (Dentistry)
- Sacheck JM, Hyatt JPK, Raffaello A, Jagoe RT, Roy RR, Edgerton VR, Lecker SH, Goldberg AL. Rapid disuse and denervation atrophy involve similar transcriptional changes as muscle wasting during systemic diseases. *The FASEB Journal* 21(1): 140-155, 2007. doi: 10.1096/fj.06-6604com. IF: 7.049; 3/71 (Biology)
- Cesari WA\*, Caruso DM\*, Zyka EL\*, Schroff ST, Evans CH, **Hyatt JPK**. Study of physiological responses to acute carbon monoxide exposure with a human patient simulator. *Advances in Physiology Education* 30(4): 242-247, 2006. doi: 10.1152/advan.00063.2006. **IF: 1.483; 4/23** (Education, Science Disciplines)
- Hyatt JPK, Roy RR, Baldwin KM, Wernig A, Edgerton VR. Activity-unrelated neural control of myogenic factors in slow muscle. *Muscle and Nerve* 33(1): 49-60, 2006. doi: 10.1002/mus.20433.
  IF: 2.594; 112/219 (Neurosciences)
- Huey KA, **Hyatt JPK**, Zhong H, Roy RR. Effects of innervation state on Hsp25 content and phosphorylation in inactive rat plantaris muscles. *Acta Physiologica Scandinavica* 185(3): 219-228, 2005. doi: 10.1111/j.1365-201X.2005.01483.x. **IF: 2.455; 33/74 (Physiology)**
- Hyatt JPK, Roy RR, Baldwin KM, Edgerton VR. Nerve-activity-independent regulation of muscle atrophy: role of MyoD and Myogenin in satellite cells and myonuclei. *American Journal of Physiology, Cell Physiology* 285(5): C1161-1173, 2003. doi: 10.1152/ajpcell.00128.2003. IF: 4.23; 9/75 (Physiology)
- Vincent HK, Carlson C, Hyatt JP, Yihua L, Vincent KR. Alterations in bilateral force judgment following strenuous eccentric exercise. *Research Quarterly in Exercise and Sport* 71(4): 340-348, 2000. doi: 10.1080/02701367.2000.10608917. IF: 1.214; 36/71 (Sports Sciences)

- Hyatt JPK, Clarkson PM. Creatine kinase release and clearance using MM variants following repeated bouts of eccentric exercise. *Medicine and Science in Sport and Exercise* 30(7): 1059-1065, 1998. doi: 10.1097/00005768-199807000-00006. IF: 3.399; 4/71 (Sports Sciences)
- Thompson HS, Hyatt JP, DeSouza MJ, Clarkson PM. The effects of oral contraceptives on delayed onset muscle soreness following exercise. doi: 10.1016/S0010-7824(97)00093-0. *Contraception* 56(2): 59-66, 1997. IF: 2.327; 18/67 (Obstetrics & Gynecology)

Citation index: 1,269 (Jul. 2022) h-index: 11 Source: Google Scholar

#### **Books**

- **Hyatt JPK**, Kingsbury J, Legere J, Penkrot T. *Anatomy & Physiology I: Laboratory Manual*, 3<sup>rd</sup> ed. Englewood, Colorado: Morton Publishing, 2019. ISBN: 978-1-64043-073-0.
- **Hyatt JPK**, Kingsbury J, Legere J, Penkrot T. *Anatomy & Physiology II: Laboratory Manual*, 2<sup>nd</sup> ed. Englewood, Colorado: Morton Publishing, 2019. ISBN: 978-1-64043-074-7.

#### Abstracts / Conference reports

- Firetto, CM, Collins-Montalbano A, **Hyatt JPK**. A Study Strategy Module for Biology Undergraduates: Uptake and Impact. American Psychological Association Convention: Minneapolis, MN, Aug 4 - 7, 2022.
- **Hyatt JPK**, Dimatteo L.\* Early-life Exposure To Voluntary Running Wheels Does Not Impact Postweaned Exercise Distances In Young Rats. ACSM Conference: San Diego, CA, May 31 Jun 4, 2022.
- **Hyatt JPK**, Pullman BR.\* Expression profiles of protein markers regulating the mitochondrial lifecycle in skeletal muscle of acute spinal cord transected rats. The FASEB Journal, 36:. https://doi.org/10.1096/fasebj.2022.36.S1.R5789. Experimental Biology Conference: Philadelphia, PA April 2-5, 2022.
- Pullman BR,\* Hyatt JPK. MOTS-c protein expression increases following aerobic exercise training and remains elevated during detraining. The FASEB Journal 36: https://doi.org/10.1096/fasebj.2022.36.S1.R5018. Experimental Biology Conference: Philadelphia, PA April 2-5, 2022.
- Firetto CM, **Hyatt JPK**, Kingsbury J, Penkrot TA. Using in-class learning activities to promote integration strategy use. Presented at the annual convention of the American Psychological Association, Washington, DC August 6-8, 2020. doi: 10.17605/OSF.IO/K2DHU
- Hyatt JPK, Caprio LA,\* Bienenstock EJ, Kim JA, McCall GM. Introduction of a high-fat/sucrose diet modulates voluntary wheel running activity in adult female rats. *Med Sci Sport Exerc* 49(5): S330, 2017. ACSM Conference: Denver, CO May 31-Jun 4.

- Kingsbury J, Penkrot T, Lisinbee C, **Hyatt JPK**. An analysis of assessment modalities in highenrollment course sections. *The FASEB J* 31 (1 Suppl.): 576.40, 2017. Experimental Biology Conference: Chicago, IL April 22-26.
- Pang M\*, McCall G, Mehan R; Hyatt JP, Kim J. The role of MMP-9 in satellite cell activation after increased activity. *International Journal of Exercise Science*: Conference Proceedings 8(4), Article 5, 2016. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss4/5
- Fitzpatrick RE\*, McCall GE, Mehan RS, **Hyatt JPK**, Kim JA. The role of MMP-2, -9, and -13 in the regulation of skeletal muscle hypertrophy. *International Journal of Exercise Science*: Conference Proceedings 8(4), Article 9, 2016. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss4/9
- Hyatt JPK, Brown EA\*, Bienenstock EJ, McCall GM. Acute exercise stress elicits differential gene expression profiles in sedentary vs. detrained soleus muscles. *Integrative Biology of Exercise Conference* (Phoenix, AZ) Nov. 2-4, 2016. Abstract 25.1, p. 91. http://www.the-aps.org/mm/Conferences/APS-Conferences/2016-Conferences/Exercise/Official-Meeting-Program-Book.pdf
- Caprio LA\*, Bowden MT\*, Kim JA, McCall GE, **Hyatt JPK**. Changes in dietary fat/sugar content cannot account for altered patterns in daily physical activity. Poster: Undergraduate Research Conference (Washington, DC), Apr. 14, 2016.
- Brown EA\*, McCall GE, **Hyatt JPK**. The effects of detraining on gene expression profiles in rat soleus skeletal muscle after acute exercise. *International Journal of Exercise Science*: Conference Proceedings 8(3): Article 12, 2015. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss3/12
- Dahlberg PA\*, Mehan RS, **Hyatt JPK**, McCall GE. The role of MMP-9 in mouse plantaris muscle hypertrophy. *International Journal of Exercise Science*: Conference Proceedings 8(3): Article 36, 2015. Available at: http://digitalcommons.wku.edu/ijesab/vol8/iss3/36
- Huber AM\*, Hall A, Pascavis A\*, Chaney M\*, Kocan J\*, **Hyatt JPK**. Resveratrol treatment in rhesus macaques has minimal influence on skeletal muscle genotype expression and glycolytic/oxidative enzyme activity. Poster: Undergraduate Research Conference (Washington, DC), Apr. 9, 2012. (Funded by the Sigma Xi Society)
- Parvaresh KC\*, Brochin RL\*, Huber AM\*, Bacon PL\*, McCall GE, Hyatt JPK. VEGF and HB-EGF Expression and Localization in Chronically Overloaded Rat Plantaris and Soleus Muscle. *Med Sci Sport* Exerc 42(5): S264, 2010.
- Zare SM\*, **Hyatt JPK** Static arch height is a poor predictor of stress fracture risk in male college athletes. Oral presentation: Undergraduate Research Conference (Washington, DC), Apr. 16, 2009.
- Kander EM\*, McCall GE, Zhong H, Roy RR, **Hyatt JPK**. Early time course of Pax3, Pax7, and MyoD protein content in the functionally overloaded rat plantaris muscle. *The FASEB J*, April, 2007.
- **Hyatt JPK**, Zhong H, Banker TP\*, Mikulich MR\*, Roy RR. Modulation of Pax3 and Pax7 protein expression and localization in inactive skeletal muscle. *The FASEB J* 20 483.3, 2006.
- **Hyatt JPK**, Lu Z, Capetanaki Y, Ralston E. Perturbation of subcellular organization in muscle fibers from desmin null mice. New Directions in Biology and Disease (San Diego, CA), 2004.

- Park H, Bakar K, Hamzepour S, Wu J, **Hyatt JP**, Shin K-H, Pae E-K. Fiber-type changes in the genioglossus muscle induced by electrical stimulation. International Association for Dental Research (Honolulu, HI), March 2004.
- Hyatt JPK, Roy RR, Baldwin KM, Edgerton VR. Modulation of muscle-specific genes and satellite cell activity via neural activity-independent influences. *Med Sci Sport Exerc.* 35(5): S241, 2003.
- Sacheck JM, Ohtsuka A, Gomes M, Lecker SH, **Hyatt JPK**, Edgerton VR, Goldberg AL. Expression of muscle-specific ubiquitin-protein ligases (E3s) during muscle atrophy. *The FASEB J*. 17(4) Part II: A957, 2003.
- **Hyatt JPK**, Roy RR, Edgerton VR. Neural activity-independent modulation of MyoD and Myogenin protein expression in adult skeletal muscle. *The FASEB J*. 16(5) Part II: A761, 2002.
- Hyatt JPK, Roy RR, Edgerton VR. Role of muscle-derived stem cells during skeletal muscle regeneration and hypertrophy. *Med Sci Sport Exerc*. 33(5): S79, 2001.
- **Hyatt JPK**, Clarkson PM. Effect of a repeated bout of exercise on creatine kinase-MM isoforms. *Med Sci Sport Exerc*. 29(5): S63, 1997.
- Sacheck JM, **Hyatt JP**, Thompson HS, Clarkson PM. Dietary fat intake, caloric intake, and vitamin E consumption in female athletes. *Med. Sci. Sport Exerc.* 29(5): S125, 1997.
- Thompson HS, Hyatt JP, Clarkson PM. Exercise-induced muscle damage in subjects with different levels of ingested estrogen. *Med. Sci. Sport Exerc.* 28(5): S114, 1996.
- Carlson CJ, Hyatt JP, Nosaka K, Clarkson PM. The effect of fatigue on subsequent performance of strenuous isometric exercise. *Med. Sci. Sport Exerc.* 28(5): S114, 1996.

# **Teaching Experience**

#### Arizona State University (2016-pres)

2019-pres Introduction to Human Anatomy and Physiology w/ laboratory (BIO 160) – online 2018-pres Introduction to Human Anatomy and Physiology w/ laboratory (BIO 160) – on-ground 2016-pres Human Anatomy and Physiology I w/ laboratory (BIO 201)

2017-18 Foundations of Human Disease (co-taught)

#### Georgetown University (2004-2016) – Average Teaching Evaluations: ~4.51 / 5

- 2004-16 Physiological Adaptations w/ laboratory
- 2004-16 The Language of Health and Disease
- 2009-15 Research Theory and Communication in Science and Healthcare
- 2005-11 Exercise Physiology w/ laboratory
- 2007-09 The Human Machine
- 2004-07 Human Biology I/II laboratory
- 2004-05 Biotechnology laboratory
- 2004 Microbiology laboratory

# Additional Teaching Experience

2017	Northern Arizona University	Pathophysiology (graduate), guest lecturer (2 weeks)
2003	Instructor: UCLA	Introduction to Molecular Biology
2002	Instructor: UCLA	Cells, Tissues, and Organs (Intro. Physiology)
1999	Instructor: Mt. St. Mary's	Exercise Physiology (Master's Level)

# **Invited Talks / Seminars**

- "Exercise, detraining, and muscle hypertrophy: preliminary findings." School of Nursing and Health Studies, Georgetown University, November 9, 2015.
- "Diet and exercise: pilot work." Center for the Study of Sex Differences in Health, Aging and Disease, Georgetown University, February 20, 2015.
- "Engaging in new collaborative research directions: three to four pilot ideas." Departments of Psychology and Exercise Science, University of Puget Sound, February 18, 2014.
- "Research endeavors with undergraduate students." Department of Exercise Science, Linfield College, McMinnville, OR, January 14, 2014.
- "Mechanical and cellular mechanisms contributing to skeletal muscle hypertrophy." Department of Exercise Science, Linfield College, McMinnville, OR, January 14, 2014.
- "Opening Pathways to Success for Rural High School Students." National HRSA/HCOP/HCOE conference, Bethesda, MD, February 2, 2011.
- "There is no pill for physical activity; Skeletal muscle hypertrophy" Special Master's Program in Physiology. Georgetown University, May 2010 2013.
- "Is Skeletal Muscle an Endocrine Organ?" Departments of Biology and Exercise Science, University of Puget Sound, June 2008
- "Skeletal and Muscular Physiology and Pathophysiology." Graduate Nursing, 2007-08
- "So, You Think You're Buff." Georgetown Admissions Ambassador Program, 2005-06
- "Research in a College Setting." Summer high school seminars, Georgetown University, 2004-2008.

# **Professional Organizations / Service**

College Board Anatomy and Physiology Advanced Placement Curriculum / Testing design Reviewer, Applied Physiology, Nutrition, and Metabolism Reviewer, Frontiers in Physiology: Exercise Physiology Reviewer, The Anatomical Record Reviewer, American Journal of Physiology – Reg., Integ., Comp Physiol Reviewer, Journal of Applied Physiology Reviewer, Cells, Tissues, Organs Reviewer, Acta Physiologica Scandinavica Reviewer, Muscle and Nerve Reviewer, The Brazilian Journal of Medical and Biological Research Reviewed: The Human Body in Health and Disease (5<sup>th</sup> ed.) by GA Thibodeau and KT Patton, 2009. Reviewed: Essentials of Anatomy & Physiology, 1<sup>st</sup> ed. by GA Thibodeau and KT Patton Member, Sigma Xi Society Member, American Physiological Society Member, American College of Sports Medicine (ACSM)

### **Georgetown University Committees**

- 2015 Chair, Executive Faculty, School of Nursing and Health Studies
- 2004-13 Undergraduate Admissions
- 2010-11 General Education Working Group
- 2009-10 Thresholds in Writing, CNDLS
- 2005-11 Career Center Advisory Council
- 2004-11 Honor Council
- 2009-10 Strategic Planning Committee, GUMC
- 2007-10 Co-Chair, Faculty Development and Welfare, SNHS
- 2008 Research in Health Care subcommittee, SNHS
- 2006-07 Situation Room Taskforce, SNHS
- 2005-07 Simulation/Technology Taskforce, SNHS
- 2005 School Naming Taskforce, SNHS
- 2005 Health Equity Strategic Planning Team, SNHS

# **Press**

- ASU Now. "ASU anatomy and physiology faculty turn book proceeds into student scholarships" June 12, 2019. https://asunow.asu.edu/20190523-asu-anatomy-and-physiology-faculty-turn-royalties-student-scholarships
- ASU Now. "Digital cadavers bring students a deeper understanding of anatomy, physiology. February 27, 2018. https://asunow.asu.edu/20180226-discoveries-asu-anatomage-table-digital-cadaver-anatomy-study
- ASU Now. "Changing the anatomy of a science education." February 27, 2018. https://campus.asu.edu/content/changing-anatomy-science-education-0
- Frontiers. "Another reason for wine lovers to toast resveratrol: Resveratrol found in red wine could help counteract the negative impact of high fat/high sugar diets." ScienceDaily. ScienceDaily, May 13, 2016. <www.sciencedaily.com/releases/2016/05/160513150355.htm>
- Vuona, Al. "Off the vine: Research touts health benefits of drinking wine." The Telegram & Gazette, Worcester, MA. http://m.telegram.com/entertainmentlife/20160609/off-vine-research-touts-health-benefits-of-drinking-wine
- Kirby, Tressa. "Embarking on the Pathway to Success." Georgetown University Medical Center Website, August 11, 2010. http://gumc.georgetown.edu/news/stories/114483.html
- Burgoon, Lauren. "Athletes' Feats: A Case of Conditioning or Genetics?" Blue & Gray: Georgetown University's Newsletter for Faculty and Staff, March 3, 2010. http://explore.georgetown.edu/documents/49164/?utm\_source=bronto&utm\_medium=email&utm\_

term=Athletes%27+Feats%3A+A+Case&utm\_content=jkh22%40georgetown.edu&utm\_campaign =Blue+%26+Gray%2C+March+3

- Hambleton, Laura. "Practice Makes Perfect But Good Genes are Golden." *The Washington Post*, February 23, 2010. http://www.washingtonpost.com/wpdyn/content/article/2010/02/22/AR2010022203641.html?referrer=emailarticle
- Office of Communications, Georgetown University Medical Center, Media Advisory: GUMC Experts Offer Commentary on Olympic-related Medical Stories, February 9, 2010. http://explore.georgetown.edu/news/?ID=48743&PageTemplateID=295
- Schneider, Howard. "For Your Other 600 Muscles." *The Washington Post*, June 12, 2007. http://www.washingtonpost.com/wp-dyn/content/article/2007/06/11/AR2007061101901.html
- Dell'Amore, Christine. "Start today on a fitter you." United Press International, Jan 15, 2007. http://www.upi.com/ConsumerHealthDaily/view.php?StoryID=20070115-032635-4578r