

Curriculum Vitae

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Dr. Todd Timothy Gleeson

Professor, Department of Integrative Physiology
University of Colorado, Boulder, Colorado 80309-0354
email: gleeson@colorado.edu
<http://www.colorado.edu/intphys/faculty/gleeson.html>

Personal

Home Address: 458 Muirfield Circle
Louisville, CO 80027
gleeson@colorado.edu
Telephone: Home 303/666-4219
Office 303/735-3456

Education

1974 B.S. Zoology, University of California, Riverside
1979 Ph.D. Biological Sciences (Dept. of Developmental & Cell Biology),
University of California, Irvine
1979-1981 NIH Postdoctoral Fellow, Dept. of Physiology & Biophysics,
University of California, Irvine

Professional Experience

2003 - Professor, Department of Integrative Physiology, Univ. of Colorado
1994-2003 Professor, Department of EPO Biology, University of Colorado
1997-2001 Associate Editor, Physiological & Biochemical Zoology
1995-1998 Associate Editor, American Zoologist
1988-1994 Associate Professor, Department of EPO Biology, University of Colorado
1981-1988 Assistant Professor, Department of EPO Biology, University of Colorado
1983 visiting scientist, Department of Physiology, University of St. Andrews, St. Andrews, Fife,
Scotland, UK
1982 visiting scientist, Department of Structural and Functional Sciences, University of Wisconsin,
Madison, WI
1979-1981 NIH Postdoctoral Fellow, California College of Medicine, Department of Physiology,
University of California, Irvine
1978 Investigator, R/V Alpha Helix Expedition to the Galapagos Islands, Ecuador
1977 visiting scientist, Concord Field Station, Harvard University,
1977 Research Assistant, Expedition to Bonaire, Netherlands Antilles

Administrative Experience

2012- Director, Health Professions Residential Academic Program
2002- 2012 Dean, College of Arts and Sciences,
2001-2002 Interim Dean, College of Arts and Sciences
1997-2001 Associate Vice Chancellor for Faculty Affairs
1990-1995 Associate Dean for Curricular Affairs, College of Arts and Sciences
1990 Associate Dean for Student Academic Affairs (Acting), College of Arts and Sciences
1987-1990 Assistant Dean for Summer Orientation, College of Arts and Sciences
1986-1989 Associate Chair, E.P.O. Biology

Grant Activity

2008-2013 NSF: Towards a Center for STEM Education, \$998,600, co-PI
2002-2008 NSF ADVANCE Institutional Transformation Award. \$3,581,000 co-PI
2002-2004 NSF Computational Neurobiology at the Cellular Level. \$200,000, co-PI
1997-2000 NSF Minority Postdoctoral Research Fellowship (DBI-9973556), \$100,000, \$10,000 ICR.
1998-2002 NSF: REU Supplement to energetics of non-sustainable locomotion. \$6,000, PI
1997-2002 NSF-Integrative Animal Biology. Energetics of non-sustainable locomotion. \$152,000, PI.
1997-2000 NSF-Ecological & Evolutionary Physiology. Co-evolution of locomotor behaviors and muscle
composition: a phylogenetic approach. (PI, Theodore Garland, Jr. U of Wisconsin)
1993-1997 NIH -NIDDK.R01.DK46428 Enzymatic and hormonal regulation of muscle gluconeogenesis.
\$308,000
1989-1994 Howard Hughes Medical Institute. Undergraduate Biological Sciences Education Initiative.
\$2,000,000.. Co-author with Richard McIntosh (since renewed through 2012).
1986-1990 NSF- Regulatory Biology. Mechanism and Regulation of Muscle Gluconeogenesis.
\$146,000/3 yrs.

Todd T. Gleeson	
1986-1987	University of Colorado. Use of microcomputers in the undergraduate physiology curriculum. \$5,000/yr.
1985-1986	Council on Research and Creative Work, University of Colorado. Effects of temperature on cardiovascular function. \$6,000.
1982-1985	NIH - Arthritis and Metabolic Diseases. Contractile and metabolic properties of skeletal muscle. \$131,000/3 yrs.
1982-1984	NSF - Cell Physiology. Contractile and metabolic properties of skeletal muscle. \$80,000/2 yrs.
1981	Research Funds, Council on Research and Creative Work, University of Colorado. \$7,000/yr.
1981	NIH Biomedical Research Support Grant (Univ. of Colorado). \$9,000.
1979-1981	NIH/PHS Postdoctoral Fellowship (Individual Award). \$23,000/2 yrs.
1977-1979	NSF Doctoral Dissertation Improvement Grant. DEB 77-00042.

Awards and Honors

2003	Best Should Teach Award, Graduate School, University of Colorado
2000	Elected Fellow, AAAS (American Assoc. for the Advancement of Science)
1985	University of Colorado Teaching Recognition Award (SOAR)
1984	NSF Alan T. Waterman Award Nomination
1983	University of Colorado Teaching Recognition Award Nomination (SOAR)
1979	NIH/PHS Postdoctoral Fellowship.
1979	Univ. of California Graduate Alumni Award for Excellence in Research
1977&78	E. A. Steinhaus Graduate Teaching Awards (Univ. of California, Irvine).

Professional Service

2005-2010	American Association of Universities, Arts & Sciences Dean's Conferences; host, program organizer, panelist
1997-2001	Associate Editor, Physiological & Biochemical Zoology
1996-1997	Editorial Board, Physiological Zoology
1995-1998	Associate Editor, American Zoologist
1985-1987	Nominating Committees, American Society of Zoologists, Division of Comparative Physiology and Biochemistry
1981-	Reviewer for: (research proposals) National Science Foundation, National Geographic Society, NSERC (Canada) (manuscripts and books) American J. Physiology, Science, J. Comparative Physiology, Physiological Zoology, J. Experimental Biology, J. Applied Physiology, Benjamin/Cummings Publ. Co., Cell and Tissue Research, Ecology/Ecological Monographs, Herpetologica, Comparative Biochemistry and Physiology (A), J. Physiology (London), American Zoologist

Memberships

Society of Integrative and Comparative Biology (USA)
Society of Experimental Biologists (UK)
Elected Fellow, American Association for the Advancement of Science (USA)

Teaching Activities

Undergraduate Courses

General Biology, EPOB 1220-3 (for majors)
Human Physiology, EPOB 3430-5
Human Physiology I, IPHY 3470-3
Comparative Biology of Locomotion, EPOB 4840-3
Laboratory in Experimental Biology, EPOB 4460-3
Critical Thinking in Biology: Muscles and Muscle Metabolism, EPOB 4800-3
Intro. to Physiology, EPOB 1300-3 (dist. learning course for high school seniors)

Graduate Courses

Assorted Graduate Seminars in Functional Zoology, Metabolism, Comparative Physiology
Comparative Biology of Locomotion, EPOB 5840-3
Laboratory in Experimental Biology, EPOB 5460-3
Current Topics in Physiology (for high school teachers), EPOB 5XXX-2
Current Topics in Ecology & Evolutionary Biology; coordinator. (for HS teachers)
Physiology of Active Animals, EPOB 6310-2
Advanced Topics in Anatomy and Physiology (for HS teachers), EPOB 5460-1

Graduate and Individualized Training (and current appointment)

Postdoctoral Fellows

Dr. Harriet Austin, lecturer, Front Range Community College, CO
Dr. Paula Dalessio (Assistant Professor, Biochemistry, Pennsylvania State Univ, Hershey)
Dr. Randi B. Weinstein (Research Asst. Professor, Univ Arizona)
Dr. David A. Scholnick (Assoc. Professor, Pacific University, OR)
Dr. Carlos Crocker (Assoc. Professor, San Francisco State University, CA)
Dr. E. Robert Donovan (PostDoc, U Nevada, Reno; UC Riverside)

Doctoral Students

Jon F. Harrison, Ph.D., Professor, Arizona State University, AZ
Alan S. Kolok, Ph.D., Associate Professor, University of Nebraska, Omaha
Deborah A. Podolin, Ph.D., Assoc. Professor, University of New England, MA
Erica L. Wagner, Ph.D., Adjunct Professor, Sacramento City College, CA
Thomas Hancock, Ph.D., Asst. Professor, Eastern Washington University, WA
E. Robert Donovan, Ph.D. 2006, Lecturer, Pacific Lutheran University, Tacoma, WA
Ann M. Petersen, Ph.D., 2008, research scientist, Univ Oregon

Masters Degree Students

Heather Duffy, MA. (Ph.D, Albert Einstein, NY)
Michele Bertholf, MA. (Ph.D., Univ. Northern Colorado)
Maya Emshwiller, MA (Instructor, Portland Community College, OR)
Jeff Nedrow, MA (Capt. USAF; pilot)
Emily J. Baker, MA , MBA, CPA.

Undergraduate Research Students

UROP, URAP, and Honors Undergraduates - 20 students since 1989

Outside Examiner

2009 PhD committee, University of Western Australia
2004, PhD committee for DE Warren, Brown University
2004, MA committee for Amzi M. Griego Marsh, Cal Poly Pomona
1996 PhD committee for Lambert Braü, University Western Australia

Publications**Abstracts:**

- Gleeson, T.T. 1977. The effects of endurance training and captivity on the activity energetics of the lizard *Sceloporus occidentalis*. *American Zoologist* 17:391.
- Gleeson, T.T. 1978. Metabolic analysis of locomotion in the Galapagos marine iguana. *American Zoologist* 18:654.
- Gleeson, T.T., G.S. Mitchell and A.F. Bennett. 1979. Cardiovascular responses to graded activity in the lizards *Varanus exanthematicus* and *Iguana iguana*. *American Zoologist* 19:919.
- Mitchell, G.S., T.T. Gleeson and A.F. Bennett. 1980. Ventilation and acid-base balance in lizards during treadmill exercise. *Federation Proceedings* 39:1061.
- Gleeson, T.T., R.W. Putnam and A.F. Bennett. 1980. Fiber type characterization and distribution in lizard locomotory muscles. *American Zoologist* 20:908.
- Putnam, R.W., Gleeson, T.T. and A.F. Bennett. 1980. Fiber types in lizard locomotory muscles. *Federation Proceedings* 39:293.
- Gleeson, T.T. and K.M. Baldwin. 1981. Cardiovascular function during exercise in untrained rats. *Federation Proceedings* 40:465.
- Gleeson, T.T. and A.F. Bennett. 1981. Gas exchange and acid-base regulation in exercising lizards. IN: *Proceedings of the symposium, "Gas exchange, gas transport and acid-base regulation in lower vertebrates."* Gottingen, West Germany.
- Gleeson, T.T. 1982. Enzymatic characterization of skeletal muscle fibers in the monitor lizard, *Varanus salvator*. *American Zoologist* 22:936.
- Seeherman, H.J., R. Dmi'el and Gleeson, T.T. 1982. Oxygen consumption and lactate production in varanid and iguanid lizards: a mammalian relationship. IN: *Proceedings of the Fifth International Symposium on the Biochemistry of Exercise*. Boston, MA.
- Gleeson, T.T. and I.A. Johnston. 1983. Contractile and ultrastructural properties of red and white lizard muscle. *American Zoologist* 23:979.
- Mitchell, G.S. and Gleeson, T.T. 1983. Ventilation and acid-base balance during lactic acid infusion in the lizard *Varanus salvator*. *Physiologist* 26:A73.
- Gleeson, T.T. and I.A. Johnston. 1984. Properties of the iliofibularis muscle from the desert iguana, *Dipsosaurus dorsalis*. *J. Physiology (London)* 346:66p.
- Gleeson, T.T., I.A. Johnston, B.D. Sidell and W.G.S. Stephens. 1984. Temperature dependence of contraction velocity in some ectotherm fast muscles. *J. Physiology (London)* 346:65p.
- Gleeson, T.T. 1984. Muscle gluconeogenesis as a possible mechanism of lactate removal. *American Zoologist* 24(4):109A.
- Gleeson, T.T. 1987. Lactate metabolism following exhaustive activity in a lower vertebrate. *Physiologist*. 30:138
- Gleeson, T.T. and J.M. Harrison. 1987. Variation in skeletal muscle composition and its relationship to sprint running performance in the lizard, *Dipsosaurus*. *American Zoologist*.27(4): 127A.
- Gleeson, T.T. and P.M. Dalessio. 1988. Gluconeogenesis dominates post-exercise lactate removal in a lizard. *American Zoologist* 28(4):43A.
- Gleeson, T.T. 1989. Physiology of active lizards. *Proceedings of the International Union of Physiological Sciences* 17: 364.
- Harrison, J.F., J.E. Phillips and T.T. Gleeson. 1989. Gas exchange in jumping grasshoppers. *American Zoologist* 29(4): 5A

- Gleeson, T.T. and A.S. Kolok. 1990. Skeletal muscle gluconeogenesis: glycogen synthesis from lactate is stimulated by epinephrine. *Physiologist* 33(4):A36.
- Gleeson, T.T. and S.J. Wickler. 1991. Comparison of skeletal muscle lactate and glucose metabolism in mouse and lizard. *American Zoologist* 31: 70A.
- Gleeson, T.T. 1992. Regulation of glycogen replenishment in post-exercise skeletal muscle of a lizard. *Physiologist* 35: 224.
- Podolin, D.A., T.T. Gleeson and R.S. Mazzeo. 1992. Contribution of gluconeogenesis to glucose homeostasis with aging: influence of training. *Physiologist* 35: 191.
- Wickler, S.J., T.T. Gleeson and E.L. Wagner. 1992. Glucose and lactate metabolism in skeletal muscle of larval salamanders (*Ambystoma tigrinum*). *Physiologist* 35: 224.
- Podolin, D.A., M. Pagliassotti, T.T. Gleeson and R.S. Mazzeo. 1993. Influence of endurance training on the age-related decline in hepatic gluconeogenesis. *Medicine and Science in Sport & Exercise* 25: 97.
- Gleeson, T.T. 1993. Hormonal influences on post-exercise lactate metabolism in a lizard. Non-published abstract for W & SW Regional Conference on Comparative Endocrinology, Boulder, CO. 3/93.
- Wagner, E.L. and T.T. Gleeson. 1993. Body temperature affects the metabolic fate of lactate in *Dipsosaurus dorsalis*. *Amer. Zool.* 33: 68A.
- Gleeson, T.T., E.L. Wagner and S.J. Wickler. 1993. Metamorphic changes in salamander muscle affects muscle lactate metabolism. *Amer. Zool.* 33: 34A
- Podolin, D.A., T.T. Gleeson and R.S. Mazzeo. 1994. Role of norepinephrine in hepatic gluconeogenesis with age: evidence of a training effect. *Medicine and Science in Sport & Exercise*
- Podolin, D.A., T.T. Gleeson and R.S. Mazzeo. 1995. Regulation of hepatic gluconeogenesis by glucagon, phenylephrine and isoproterenol: Influences of age and training. *Medicine and Science in Sport & Exercise* 27(5): S167.
- Gleeson, T.T. 1995. Metabolic recovery from exhaustive activity in *Anolis carolinensis*. *American Zoologist* 35:78A.
- Scholnick, D.A. and T.T. Gleeson. 1995. Regulation of skeletal muscle metabolism in the lizard *Dipsosaurus dorsalis* by fructose-2,6-bisphosphate. *American Zoologist* 35:99A.
- Weinstein, R.B. and T.T. Gleeson. 1995. A comparison of regulatory enzymes for glycogenolysis and glycogen resynthesis in mouse and lizard skeletal muscle. *American Zoologist* 35: 78A.
- Podolin, D.A., J.E. Friedman, T.T. Gleeson, D. Scholnick, and R.S. Mazzeo. 1996. Changes in hepatic regulators and gene expression can account for gluconeogenic aging but not training effects. *Medicine and Science in Sport & Exercise* 28(5): S99.
- Gleeson, T.T., R.B. Weinstein, and D.A. Scholnick. 1996. Influence of adrenal and pancreatic hormones on metabolic recovery from exhaustive exercise in an ectothermic vertebrate. *Physiologist* 39: A-26
- Scholnick, D.A. and T.T. Gleeson. 1996. Regulation of post-exercise skeletal muscle metabolism by fructose-2,6-bisphosphate and glucagon. *Physiologist* 39: A26
- Baker, E.J. and T.T. Gleeson. 1997. Energetics of brief locomotor activity. *Amer. Zoo.*37:104A.
- Bonine, K.E., T. Garland Jr. and T.T. Gleeson. 1997. Muscle fiber-type variation and locomotion in phrynosomatid lizards. *Amer. Zool.* 37: 104A
- Scholnick, D.A. and T.T. Gleeson. 1997. Effects of prior exercise on metabolic recovery in the lizard *Dipsosaurus dorsalis*. *Amer. Zoo.* 37: 140A.
- Gleeson, T.T., S.J. Wickler, E.J. Baker, P. Keng and T.V. Hancock. 1998. Run now, pay later: Why cost of locomotion often does not reflect cost of activity. *Amer. Zool.* 38(5): 82A.

- Baker, EJ and TT Gleeson. 1998. Brief activity and the effects of duration and intensity on C_{act} . *Amer. Zool.* 38(5): 148A.
- Hancock, TV, SC Adolph, and TT Gleeson. 1998. Costs of short intense activity in the desert iguana (*Dipsosaurus dorsalis*). *Amer. Zool.* 38(5): 149A.
- Keng, P., S.J. Wickler, T.T. Gleeson, E.J. Baker, and T.V. Hancock. 1999. The cost of brief locomotor activity: a measure of excess post-exercise oxygen consumption (EPOC) in *Equus caballus*. *FASEB Journal*, 13 (4): A1050
- Gleeson, TT and TV Hancock. 1999. Modeling the metabolic energetics of brief and intermittent locomotion in lizards and rodents. *Amer. Zool.* 39: 5A
- Donovan, ER and TT Gleeson. 1999. Lactate transport in lizard muscle. *Amer. Zool.* 39: 94A.
- Hancock, TV and TT Gleeson. 1999. Effects of intensity and duration of activity on metabolic recovery and cost of activity (C_{act}) in the desert iguana (*Dipsosaurus dorsalis*). *Amer. Zool.* 39: 72A.
- Donovan, ER and TT Gleeson. 2000. Lactate transport in lizard muscle. *Physiologist* 43(4):357.
- Crocker, CE, TV Hancock, and TT Gleeson. 2000. Post-exercise metabolite concentrations in skeletal muscle from the desert iguana, *Dipsosaurus dorsalis*. *Physiologist* 43(4):356.
- Bonine, KE, TT Gleeson and T Garland, Jr. 2000. Fiber-type variation in the iliofibularis muscle of phrynosomatid lizards. *Physiologist* 43(4):356.
- Hancock, TV and TT Gleeson. 2000. The tradeoff between endurance and metabolic cost using intermittent locomotion in the desert iguana (*Dipsosaurus dorsalis*). *Amer. Zool.* 40:1044.
- Hancock, TV, CE Crocker, and TT Gleeson. 2000. Contributions to elevated metabolic rates during recovery, the excess post-exercise oxygen consumption (EPOC), in the desert iguana (*Dipsosaurus dorsalis*). *Amer. Zool.* 40: 1043-44.
- Bonine, KE, TT Gleeson, and T Garland, Jr. 2000. Phrynosomatid lizards show parallel variation in sprint speed and muscle fiber-type properties. *Amer. Zool.* 40: 948-949
- Petersen, AM, TT Gleeson, and DA Scholnick. 2001. The influence of oxygen and adenosine on lizard thermoregulation. *Amer. Zool.* 41: 1553-1553.
- Zani PA, Sidenblad K, Van Dijck A, TT Gleeson, R. Kram. 2004. Low metabolic cost of level locomotion in box turtles (*Terrapene ornata*): Why so inexpensive? *INTEGRATIVE AND COMPARATIVE BIOLOGY* 44 (6): 670.
- Petersen AM, Gleeson TT. 2005. Characterization of metabolic recovery from activity in *Rana catesbeiana* *INTEGRATIVE AND COMPARATIVE BIOLOGY* 45 (6): 1178.
- Petersen AM, Gleeson TT. 2007. Metabolic Substrate Utilization in Response to Temperature Acclimation and Insulin Exposure in Frog Skeletal Muscle. *Integrative & Comparative Physiology*

Dissertation:

Gleeson, T.T. 1979. Activity energetics and mechanisms of metabolic recovery in lizards. Ph.D. Dissertation. University of California, Irvine.

Articles (Peer reviewed unless noted. Authorship with students & postdoctoral fellows underlined):

- Bennett, A.F. and T.T. Gleeson. 1976. Activity metabolism in the lizard *Sceloporus occidentalis*. *Physiological Zoology.* 49:65-76.
- Bennett, A.F. and T.T. Gleeson. 1979. Metabolic expenditure and the cost of foraging in the lizard *Cnemidophorus murinus*. *Copeia* 1979:573-577.
- Gleeson, T.T. 1979. The effects of training and captivity on the metabolic capacity of the lizard *Sceloporus occidentalis*. *J. Comparative Physiology* 129:123-128.

- Gleeson, T.T. 1979. Foraging and transport costs in the Galapagos marine iguana, *Amblyrhynchus cristatus*. *Physiological Zoology*. 52:549-557.
- Gleeson, T.T. 1980. Metabolic recovery from exhaustive activity by a large lizard. *J. Applied Physiology: Respirat. Environ. Exercise Physiology* 48:689-694.
- Gleeson, T.T., G.S. Mitchell and A.F. Bennett. 1980. Cardiovascular responses to graded activity in the lizards *Varanus* and *Iguana*. *American J. Physiology* 239 (Regulatory, Integrative and Comparative Physiology): R174-R179.
- Mitchell, G.S., T.T. Gleeson, and A.F. Bennett. 1980. Ventilation and acid-base balance during graded activity in lizards. *American J. Physiology* 240 (Regulatory, Integrative and Comparative Physiol): R29-R37.
- Gleeson, T.T., R.W. Putnam, and A.F. Bennett. 1980. Histochemical, enzymatic and contractile properties of skeletal muscles fibers in the lizard, *Dipsosaurus dorsalis*. *J. Experimental Zoology* 214(3):293-302.
- Putnam, R.W., T.T. Gleeson and A.F. Bennett. 1980. Histochemical determination of the fiber composition of locomotory muscles in a lizard *Dipsosaurus dorsalis*. *J. Experimental Zoology* 214(3):303-309.
- Gleeson, T.T. 1980. Lactic acid production during field activity in the Galapagos marine iguana, *Amblyrhynchus cristatus*. *Physiological Zoology* 53: 157-162.
- Bennett, A.F., T.T. Gleeson and G.C. Gorman. 1981. Anaerobic metabolism in lizards under natural conditions. *Physiological Zoology* 54:237-241.
- Mitchell, G.S., T.T. Gleeson and A.F. Bennett. 1981. Pulmonary oxygen transport during activity in lizards. *Respiration Physiology* 43:365-375.
- Vleck, D., T.T. Gleeson and G.A. Bartholomew. 1981. Oxygen consumption during swimming in the Galapagos marine iguana, and its ecological correlates. *J. Comparative Physiology* 141:531-536.
- Gleeson, T.T. and K.M. Baldwin. 1981. Cardiovascular responses to treadmill running in untrained rats. *J. Applied Physiology* 50:1206-1211.
- Gleeson, T.T. 1981. Preferred body temperature, aerobic scope and activity capacity of the water monitor, *Varanus salvator*. *Physiological Zoology* 54:423-429.
- Gleeson, T.T. 1982. Lactate and glycogen metabolism during and after exercise in the lizard *Sceloporus occidentalis*. *J. Comparative Physiology* 147:79-84.
- Gleeson, T.T. and A.F. Bennett. 1982. Acid-base imbalance during and after activity in lizards. *J. Experimental Biology*. 98:439-453.
- Gleeson, T.T. and K.M. Baldwin. 1983. Cardiovascular responses to treadmill exercise in rats; Effects of training. *J. Applied Physiology* 54:785-793.
- Gleeson, T.T. 1983. A histochemical and enzymatic study of the muscle fiber types in the water monitor, *Varanus salvator*. *J. Experimental Zoology* 227:191-201.
- Jones, R.E., C.H. Summers, H.B. Austin, H.M. Smith and T.T. Gleeson. 1983. Ovarian, oviductal, and adrenal vascular connections in female lizards (Genus *Anolis*). *Anatomical Record* 290:247-255.
- Seeherman, H.J., R. Dmi'el and T.T. Gleeson. 1983. Oxygen consumption and lactate production in varanid and iguanid lizards; a mammalian relationship. IN: *Biochemistry of Exercise*, vol. 13. H.G. Knuttgen, J.A. Vogel and J. Poortmans, editors. pp. 421-427. (non-reviewed).
- Gleeson, T.T., C.J.M. Nicol and I.A. Johnston. 1984. Capillarization, mitochondrial densities, O₂ diffusion distances and innervation of red and white muscle of the lizard *Dipsosaurus dorsalis*. *Cell Tissue Research* 237:253-258.
- Johnston, I.A. and T.T. Gleeson. 1984. Thermal dependence of contractile properties of red and white fibers isolated from the iliofibularis muscle of the desert iguana (*Dipsosaurus dorsalis*). *J. Exper. Biology* 113:123-132.

- Mitchell, G.S. and T.T. Gleeson. 1985. Acid-base balance during lactic acid infusion in the lizard *Varanus salvator*. *Respiration Physiology* 60:253-266.
- Gleeson, T.T. and A.F. Bennett. 1985. Respiratory and cardiovascular adjustments to exercise in reptiles. IN: *Circulation, Respiration and Metabolism*. R. Gilles, ed. Springer-Verlag, Berlin. pp. 23-38. (non-reviewed).
- Gleeson, T.T. 1986. Glycogen synthesis from lactate in skeletal muscle of the lizard *Dipsosaurus dorsalis*. *J. Comp. Physiology* 156:277-284.
- Gleeson, T.T. and J.M. Harrison. 1986. Reptilian skeletal muscle: fiber-type composition and enzymatic profile in the lizard *Iguana iguana*. *Copeia* 1986:324-332.
- Johnston, I.A. and T.T. Gleeson. 1987. Effects of temperature on contractile properties of skinned muscle fibers isolated from three species of toad. *American J. Physiology* 252 (Regulatory, Integrative Comp. Physiology 21): R371-R376.
- Gleeson, T.T. and I.A. Johnston. 1987. Reptilian skeletal muscle: contractile properties of identified single fast-twitch and slow fibers from the lizard *Dipsosaurus dorsalis*. *J. Exper. Zoologist* 242: 283-290.
- Gleeson, T.T. and J. M. Harrison. 1988. Muscle composition and its relationship to sprint running in the lizard *Dipsosaurus dorsalis*. *American J. Physiology (Regulatory, Integrative, Comparative Physiology)*.255: R470-R477.
- Gleeson, T.T. and P.M. Dalessio. 1989. Lactate and glycogen metabolism in the lizard, *Dipsosaurus dorsalis*, following exhaustive exercise. *J. Experimental Biology* 144: 377-393.
- Gleeson, T.T. and P.M. Dalessio. 1990. Lactate: a substrate for reptilian muscle gluconeogenesis following exhaustive exercise. *J. Comp. Physiology.B* 160: 331-338.
- Harrison, J.F., J.E. Phillips and T.T. Gleeson. 1991. Activity physiology of the two-striped grasshopper, *Melanoplus bivattatus*: gas exchange, hemolymph acid-base status, lactate production, and the effect of temperature. *Physiological Zoology* 64(2):451-472.
- Gleeson, T.T. 1991. Patterns of metabolic recovery in reptiles and amphibians. *J. of Experimental Biology*. 160:187-207.
- Wickler, S.J. and T.T. Gleeson. 1993. Lactate and glucose metabolism in mouse (*Mus musculus*) and reptile (*Anolis carolinensis*). *American J. Physiology* 263: R487 - R491.
- Gleeson, T.T., P.M. Dalessio, J.A. Carr, S.J. Wickler and R.S. Mazzeo. 1993. Plasma catecholamine and corticosterone concentrations and their *in vitro* effects on lizard skeletal muscle lactate metabolism. *American J. Physiology* 265: R632-R639.
- Podolin, D.A., M.J. Pagliassotti, T.T. Gleeson and R.S. Mazzeo. 1994. Influence of endurance training on the age-related decline in hepatic gluconeogenesis. *Mechanisms of Ageing and Development* 75: 81-93.
- Podolin, D.A., T.T. Gleeson and R.S. Mazzeo. 1994. Role of norepinephrine in hepatic gluconeogenesis: evidence for aging and training effects. *Amer. J. Physiol.* 267: E680-E686.
- Garland, T. Jr., T. T. Gleeson, B. A. Aronovitz, C. S. Richardson and M. R. Dohm. 1995. Maximal Sprint Running Speeds and Muscle Fiber Composition of Wild and Laboratory House Mice. *Physiology and Behavior* 58 (5): 869-876
- Podolin, D.A., T.T. Gleeson, and R.S. Mazzeo. 1996. Hormonal regulation of hepatic gluconeogenesis: influence of age and training. *American J. Physiology* 270: R365-R372.
- Wagner, E.L. and T.T. Gleeson. 1996. Low temperature and exercise recovery in desert iguanas. *Physiological Zoology* 69: 168-190.
- Gleeson, T.T. 1996. Post-exercise lactate metabolism: a comparative review of sites, pathways, and regulation. *Annual Reviews of Physiology* 58: 565-81. (non-reviewed).

- Scholnick, D.A. and T.T. Gleeson. 1996. Regulation of skeletal muscle metabolism in the lizard *Dipsosaurus dorsalis* by fructose-2,6-bisphosphate. *American J. Physiology* 271: R 1447-R1451.
- Emshwiller, M.G. and T.T. Gleeson. 1997. Temperature effects on aerobic metabolism and terrestrial locomotion in American alligators. *Journal of Herpetology* 31(1): 142-147.
- Wagner, E.L. and T.T. Gleeson. 1997. Post-exercise thermoregulatory behavior and recovery from exercise in desert iguanas. *Physiology and Behavior*. 61(2):175-180.
- Wagner, E.L. and T.T. Gleeson. 1997. The influence of thermoregulation on behavioral recovery from exercise in a lizard. *Functional Ecology* 11: 723-28.
- Scholnick, D.A., R.B. Weinstein, and T.T. Gleeson. 1997. The influence of corticosterone and glucagon on metabolic recovery from exhaustive exercise in the desert iguana, *Dipsosaurus dorsalis*. *General and Comparative Endocrinology* 106: 147-154.
- Baker, E. J. and T.T. Gleeson. 1998. EPOC and the energetics of brief locomotor activity in *Mus domesticus*. *Journal of Experimental Zoology* 280:114-120.
- Wagner, E.L., D.A. Scholnick and T.T. Gleeson. 1999. The roles of acidosis and lactate in the behavioral hypothermia of exhausted lizards. *J. Experimental Biology* 202:325-331.
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