

ALBERT F. BENNETT

CURRICULUM VITAE

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Birth date and place: 18 July 1944 - California

Degrees:	1966	A.B. in Zoology (with highest honors) University of California, Riverside
	1971	Ph.D. in Zoology University of Michigan

Professional Employment:

1964-66	Research Assistant, U.C. Riverside
1966-69	Teaching Fellow, U. of Michigan
1970-71	Lecturer, Department of Zoology, U. of Michigan
1971-73	Miller Postdoctoral Fellow, Department of Zoology, U.C. Berkeley
1973-74	Acting Assistant Professor, Department of Zoology, U.C. Berkeley
1974-78	Assistant Professor, Departments of Developmental and Cell Biology, and Ecology and Evolutionary Biology, U.C. Irvine
1978-83	Associate Professor, Departments of Developmental and Cell Biology, and Ecology and Evolutionary Biology, U.C. Irvine
1983-present	Professor, Departments of Developmental and Cell Biology, and Ecology and Evolutionary Biology, U.C. Irvine (1989+: 100% appointment in latter)
1984-86	Chair, Department of Developmental and Cell Biology, U.C. Irvine
1986-88	Acting Dean, School of Biological Sciences, U.C. Irvine
1988-89	Chair, Department of Developmental and Cell Biology, U.C. Irvine
1998-2006	Chair, Department of Ecology and Evolutionary Biology, U.C. Irvine
2006-07	Acting Dean, School of Biological Sciences, U.C. Irvine
2007-	Dean, School of Biological Sciences, U.C. Irvine

Curriculum Vitae - Albert F. Bennett (continued)

Additional Professional Experience:

- 1969-70 Visiting Investigator, Department of Zoology, U. of Western Australia
- 1971 Visiting Scientist, Organization for Tropical Studies: Costa Rica
- 1974 Visiting Investigator, Darwin Research Station, Galapagos Islands, Ecuador
- 1976 Member, R.V. Dolphin expedition to Gulf of California, Mexico
- 1979 Visiting Investigator, Smithsonian Tropical Research Institute, Canal Zone, Panama
- 1981-82 Visiting Research Associate (Associate Professor) in Anatomy, University of Chicago
- 1983-84 Visiting Research Fellow, Department of Zoology, University of Adelaide, South Australia
- 1987,89,92 Dozent, Sommeruniversitat, Studienstiftung des Deutschen Volkes, Vols, Italy
- 1990 Visiting Research Fellow, Department of Animal Physiology, University of Nairobi
- 1993-94 Visiting Professor, Center for Microbial Ecology, Michigan State University

Professional Service:

- 1988-91 Chair, Comparative Physiology Section, American Physiological Society
- 1990 President, American Society of Zoologists
- 1990-91 Member, National Science Foundation Reorganization Taskforce "Looking to the 21st Century"
- 1991-92 Member, Natural Sciences and Engineering Research Council of Canada Standing Committee "Ocean Production Enhancement Network"
- 1991-92 Member, Systematics Agenda 2000 Committee "Integrative Role of Systematics in Physiology and Biochemistry"
- 1993 Chair, Physiology and Behavior Cluster Review Committee, National Science Foundation
- 1994-2002 Member, Committee of Examiners for the Graduate Record Examination Biology Test
- 1996-1998 Member, "Evolution, Science and Society" working group.

Awards and Fellowships:

- 1965 Elected Phi Beta Kappa, U.C. Riverside
- 1966 Woodrow Wilson Fellowship (Honorary)
- 1966-70 National Science Foundation Graduate Fellowship
- 1968 Phi Sigma Award, Biological Sciences, U. of Michigan
- 1971-73 Miller Research Fellowship, U.C. Berkeley
- 1978-83 National Institutes of Health Career Development Award
- 1981 Elected Fellow, American Association for the Advancement of Science
- 1989-90 Irvine Faculty Research Fellowship (with R.E. Lenski)
- 1994 Elected Fellow, American Academy of Arts and Sciences
- 2002 August Krogh Distinguished Lecturer, American Physiological Society
- 2002 Hansen Distinguished Lecturer, University of California Berkeley
- 2007 Western Evolutionary Biologist of the Year, UC Network for Experimental Research on Evolution

STATEMENT OF RESEARCH INTERESTS

My research concerns the interaction of living systems with their environments, particularly in regard to temperature and energy exchange. Temperature controls nearly all rate processes in organisms, including their metabolism, locomotion, growth and reproduction, and thus governs all aspects of their lives. All these processes are likewise limited by energy intake and its subsequent partitioning into maintenance, thermoregulation, synthesis, and activity. I study these factors in very diverse kinds of organisms. Much of my earlier research involved comparative and experimental studies on vertebrates, particularly reptiles, which have limited capacities of oxygen uptake and are consequently very reliant on anaerobic metabolism to sustain vigorous activity. These physiological constraints, coupled with variable body temperatures, create interesting adaptive patterns in behavior and energy allocation that are quite distinct from those of homeothermic animals. Much of this work was undertaken in an attempt to understand the evolution of endothermy (“warm-bloodedness”) in mammals and birds, both in regard to the alterations entailed in physiology and morphology and also in the selective factors that promoted its development. In order to study evolution in different environments experimentally, I use populations of bacteria which can be cultured for thousands of generations in the laboratory and measure changes in their adaptive fitness and underlying genetics. This research has involved nearly 100 populations which have adapted to different thermal and acid environments, some of them constant and some variable. Experimental evolution provides an important tool for testing evolutionary hypotheses and determining the diversity of adaptive responses to novel environments.

ALBERT F. BENNETT

PUBLICATIONS

Thesis:

Bennett, A. F. 1971. Oxygen transport and energy metabolism in two species of lizards, *Sauromalus hispidus* and *Varanus gouldii*. Ph.D. thesis, University of Michigan, Ann Arbor.

Articles, Book Chapters, and Books:

1. Dawson, W. R., and A. F. Bennett. 1971. Thermoregulation in the marsupial *Lagorhynchus conspicillatus*. J. Physiol. (Paris) 63: 239-241.
2. Bennett, A. F. 1972. A comparison of activities of metabolic enzymes in lizards and rats. Comp. Biochem. Physiol. 42B: 637-647.
3. Bennett, A. F. 1972. The effect of activity on oxygen consumption, oxygen debt, and heart rate in the lizards *Varanus gouldii* and *Sauromalus hispidus*. J. comp. Physiol. 79: 259-280.
4. Licht, P., and A. F. Bennett. 1972. A scaleless snake: Tests of the role of reptilian scales in water loss and heat transfer. Copeia 1972: 702-707.
5. Bennett, A. F., and P. Licht. 1972. Anaerobic metabolism during activity in lizards. J. comp. Physiol. 81: 277-288.
6. Bennett, A. F., and W. R. Dawson. 1972. Aerobic and anaerobic metabolism during activity in the lizard *Dipsosaurus dorsalis*. J. comp. Physiol. 81: 289-299.
7. Dawson, W. R., and A. F. Bennett. 1973. Roles of metabolic level and temperature regulation in the adjustment of Western Plumed Pigeons (*Lophophaps ferruginea*) to desert conditions. Comp. Biochem. Physiol. 44A: 249-266.
8. Bennett, A. F., and B. Dalzell. 1973. Dinosaur physiology: A critique. Evolution 27: 170-174. (See also Bennett, A.F. 1974. A final word. Evolution 28: 503.)
9. Bennett, A. F. 1973. Ventilation in two species of lizards during rest and activity. Comp. Biochem. Physiol. 46A: 653-671.
10. Bennett, A. F. 1973. Blood physiology and oxygen transport during activity in two lizards, *Varanus gouldii* and *Sauromalus hispidus*. Comp. Biochem. Physiol. 46A: 673-690.
11. Bennett, A. F., and P. Licht. 1973. Relative contributions of anaerobic and aerobic energy production during activity in amphibia. J. comp. Physiol. 87: 351-360.

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12. Bennett, A. F., and P. Licht. 1974. Anaerobic metabolism during activity in amphibians. *Comp. Biochem. Physiol.* 48A: 319-327.
13. Bennett, A. F. 1974. Enzymatic correlates of activity metabolism in anuran amphibians. *Am. J. Physiol.* 226: 1149-1151.
14. Bennett, A. F., and M. Wake. 1974. Metabolic correlates of activity in the caecilian *Geotrypetes seraphinii*. *Copeia* 1974: 764-769.
15. Bennett, A. F., and J. Ruben. 1975. High altitude adaptation and anaerobiosis in sceloporine lizards. *Comp. Biochem. Physiol.* 50A: 105-108.
16. Chapman, R. C., and A. F. Bennett. 1975. Physiological correlates of burrowing in rodents. *Comp. Biochem. Physiol.* 51A: 599-603.
17. Bennett, A. F., W. R. Dawson, and G. A. Bartholomew. 1975. Effects of activity and temperature on aerobic and anaerobic metabolism in the Galapagos marine iguana. *J. comp. Physiol.* 100: 317-329.
18. Bennett, A. F., and P. Licht. 1975. Evaporative water loss in scaleless snakes. *Comp. Biochem. Physiol.* 52A: 213-215.
19. Bennett, A. F., and T. T. Gleeson. 1976. Activity metabolism in the lizard *Sceloporus occidentalis*. *Physiol. Zool.* 49: 65-76.
20. Dawson, W. R., A. F. Bennett, and J. W. Hudson. 1976. Metabolism and thermoregulation in hatchling ring-billed gulls. *Condor* 78: 49-60.
21. Bennett, A. F., and W. R. Dawson. 1976. Metabolism. pp. 127-223. In: *Biology of the Reptilia*. Vol. 5, (C. Gans and W.R. Dawson, eds.). Academic Press, New York.
22. Bartholomew, G. A., A. F. Bennett, and W. R. Dawson. 1976. Swimming, diving, and lactate production in the marine iguana, *Amblyrhynchus cristatus*. *Copeia* 1976: 709-720.
23. Dawson, W. R., G. A. Bartholomew, and A. F. Bennett. 1977. A reappraisal of the aquatic specializations of the Galapagos marine iguana (*Amblyrhynchus cristatus*). *Evolution* 31: 891-897.
24. Bennett, A. F., and K. A. Nagy. 1977. Energy expenditure in free-ranging lizards. *Ecology* 58: 697-700.
25. Bennett, A. F. 1978. Activity metabolism of the lower vertebrates. *Ann. Rev. Physiol.* 40: 447-469.
26. Dawson, W. R., and A. F. Bennett. 1978. Energy metabolism and thermoregulation of the spectacled hare wallaby (*Lagorchestes conspicillatus*). *Physiol. Zool.* 51: 114-130.

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27. Bennett, A. F., and W. R. Dawson. 1979. Physiological responses of embryonic Heermann's Gulls to temperature. *Physiol. Zool.* 52: 413-421.
28. Bennett, A. F., and G. C. Gorman. 1979. Population density, thermal relations, and energetics of a tropical insular lizard community. *Oecologia* 42: 339-358.
29. Bennett, A. F., and T. T. Gleeson. 1979. Metabolic expenditure and the cost of foraging in the lizard *Cnemidophorus murinus*. *Copeia* 1979: 573-577.
30. Bennett, A. F., and J. A. Ruben. 1979. Endothermy and activity in vertebrates. *Science* 206: 649-654.
31. Bennett, A. F. 1980. The thermal dependence of lizard behaviour. *Anim. Behav.* 28: 752-762.
32. Dawson, W. R., and A. F. Bennett. 1980. Metabolism and thermoregulation in hatchling Western Gulls (*Larus occidentalis livens*). *Condor*. 83: 103-105.
33. Gleeson, T. T., G. S. Mitchell, and A. F. Bennett. 1980. Cardiovascular responses to graded activity in the lizards *Varanus* and *Iguana*. *Am. J. Physiol.* 239 (Reg. Integ. Comp. Physiol. 8): R174-R179.
34. Bennett, A. F. 1980. The metabolic foundations of vertebrate behavior. *Bioscience* 30: 452-456.
35. Ruben, J. A., and A. F. Bennett. 1980. The vertebrate pattern of activity metabolism: Its antiquity and possible relation to vertebrate origins. *Nature* 286: 886-888.
36. Gleeson, T. T., R. W. Putnam, and A. F. Bennett. 1980. Histochemical, enzymatic, and contractile properties of skeletal muscle fibers in the lizard *Dipsosaurus dorsalis*. *J. exp. Zool.* 214: 293-302.
37. 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. exp. Zool.* 214: 303-309.
38. Greenstone, M. H., and A. F. Bennett. 1980. Foraging energetics and metabolic rate in spiders. *Ecology* 61: 1255-1259.
39. Mitchell, G. S., T. T. Gleeson, and A. F. Bennett. 1981. Ventilation and acid-base balance during graded activity in lizards. *Am. J. Physiol.* 240 (Reg. Integ. Comp. Physiol. 9): R29-R37.
40. Bennett, A. F., W. R. Dawson, and R. W. Putnam. 1981. The thermal environment and tolerance of embryonic Western Gulls. *Physiol. Zool.* 54: 146-154.
41. Dawson, W. R., and A. F. Bennett. 1981. Field and laboratory studies of the thermal relations of hatchling Western Gulls. *Physiol. Zool.* 54: 155-164.

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42. Putnam, R. W., and A. F. Bennett. 1981. Thermal dependence of behavioural performance of anuran amphibians. *Anim. Behav.* 29: 502-509.
43. Mitchell, G. S., T. T. Gleeson, and A. F. Bennett. 1981. Pulmonary oxygen transport during activity in lizards. *Respir. Physiol.* 43: 365-375.
44. Bennett, A. F., T. T. Gleeson, and G. C. Gorman. 1981. Anaerobic metabolism in lizards under natural conditions. *Physiol. Zool.* 54: 237-241.
45. Ruben, J. A., and A. F. Bennett. 1981. Intense exercise and blood calcium levels in vertebrates. *Nature* 291: 411-413.
46. John-Alder, H., and A. F. Bennett. 1981. Thermal dependence of endurance and locomotory energetics in a lizard. *Am. J. Physiol.* 241 (Reg. Integ. Comp. Physiol. 10): R342-R349.
47. Bennett, A. F. 1982. Energetics of activity in reptiles. pp. 155-199. In: *Biology of the Reptilia*, Vol. 13 (C. Gans and F.H. Pough, eds.). Academic Press, New York.
48. Gleeson, T. T., and A. F. Bennett. 1982. Acid-base imbalance in lizards during activity and recovery. *J. exp. Biol.* 98: 439-453.
49. Schall, J. J., A. F. Bennett, and R. W. Putnam. 1982. Lizards infected with malaria: Physiological and behavioral consequences. *Science* 217: 1057-1059.
50. Putnam, R. W., and A. F. Bennett. 1982. Thermal dependence of isometric contractile properties of lizard muscle. *J. comp. Physiol.* 147: 11-20.
51. Bennett, A. F. 1983. Ecological consequences of the activity metabolism of lizards. pp. 11-23. In: *Lizard Ecology* (R. Huey, E. Pianka, and T. Schoener, eds.). Harvard Univ. Press, Cambridge, Massachusetts.
52. Bennett, A. F., and L. D. Houck. 1983. The energetic cost of courtship and aggression in a plethodontid salamander. *Ecology* 64: 979-983.
53. Putnam, R. W., and A. F. Bennett. 1983. Histochemical, enzymatic, and contractile properties of skeletal muscles of three species of anuran amphibians. *Am. J. Physiol.* 244 (Reg. Integ. Comp Physiol. 13): R558-R567.
54. John-Alder, H. B., C. H. Lowe, and A. F. Bennett. 1983. Thermal dependence of locomotory energetics and aerobic capacities of the gila monster (*Heloderma suspectum*). *J. comp. Physiol.* 151: 119-126.
55. Bennett, A. F., R. B. Huey, H. B. John-Alder, and K. A. Nagy. 1984. The parasol tail and thermoregulatory behavior of the cape ground squirrel (*Xerus inauris*). *Physiol. Zool.* 57: 57-62.

56. Huey, R. B., A. F. Bennett, H. B. John-Alder, and K. A. Nagy. 1984. Locomotor capacity and foraging behaviour of Kalahari lacertid lizards. *Anim. Behav.* 32: 41-50.
57. Bennett, A. F., R. B. Huey, and H. B. John Alder. 1984. Physiological correlates of natural activity and locomotor capacity in two species of lacertid lizards. *J. comp. Physiol.* 154: 113-118.
58. Nagy, K. A., R. B. Huey, and A. F. Bennett. 1984. Field energetics and foraging mode of Kalahari lacertid lizards. *Ecology* 65: 588-596.
59. Bennett, A. F. 1984. Thermal dependence of muscle function. *Am. J. Physiol.* 247 (Reg. Integ. Comp. Physiol. 16): R217-R229.
60. Arnold, S. J., and A. F. Bennett. 1984. Behavioural variation in natural populations. III. Antipredator behaviour in the garter snake, *Thamnophis radix*. *Anim. Behav.* 32: 1108-1118.
61. Bennett, A. F. and H. B. John-Alder. 1984. The effect of body temperature on the locomotory energetics of lizards. *J. comp. Physiol.* 155: 21-27.
62. Bennett, A. F. 1985. Energetics and locomotion. pp. 173-184 In: *Functional Vertebrate Morphology* (M. Hildebrand, D. Bramble, K. Liem, and D. Wake, eds.). Harvard Univ. Press, Cambridge, Massachusetts.
63. Bennett, A. F. 1985. Temperature and muscle. *J. exp. Biol.* 115: 333-344.
64. Marsh, R. L., and A. F. Bennett. 1985. Thermal dependence of isotonic contractile properties of skeletal muscle and sprint performance of the lizard *Dipsosaurus dorsalis*. *J. comp. Physiol.* 155: 541-551.
65. Seymour, R. S., A. F. Bennett, and D. F. Bradford. 1985. Blood gas tensions and acid-base regulation in the salt-water crocodile, *Crocodylus porosus*, at rest and after exhaustive exercise. *J. exp. Biol.* 118: 143-159.
66. Bennett, A. F., R. S. Seymour, D. F. Bradford, and G. J. W. Webb. 1985. Mass- dependence of anaerobic metabolism and acid-base disturbance during activity in the salt-water crocodile, *Crocodylus porosus*. *J. exp. Biol.* 118: 161-171.
67. Gleeson, T. T., and A. F. Bennett. 1985. Respiratory and cardiovascular adjustments to exercise in reptiles. pp. 23-38. In: *Circulation, Respiration, and Metabolism: Current Comparative Approaches* (R. Gilles, ed.) Springer-Verlag, New York.
68. Bennett, A. F. 1986. Measuring behavioral energetics. pp. 69-81. In: *Predator-Prey Relationships* (M.E. Feder and G. Lauder, eds.) University of Chicago Press.

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69. Huey, R. B., and A. F. Bennett. 1986. A comparative approach to field and laboratory studies in evolutionary ecology. pp. 82-98. In: Predator-Prey Relationships (M.E. Feder and G. Lauder, eds.) University of Chicago Press.
70. Bennett, A. F., and H. B. John-Alder. 1986. Thermal relations of some Australian skinks (Sauria: Scincidae). *Copeia* 1986: 57-64.
71. John-Alder, H. B., T. Garland, Jr., and A. F. Bennett. 1986. Locomotory capacities, oxygen consumption, and the cost of locomotion of the sleepy lizard (*Trachydosaurus rugosus* Gray). *Physiol. Zool.* 59: 523-531.
72. Marsh, R. L., and A. F. Bennett. 1986. Thermal dependence of contractile properties of skeletal muscle from the lizard *Sceloporus occidentalis* with comments on methods for fitting and comparing force-velocity curves. *J. exp. Biol.* 126: 63-77.
73. Marsh, R. L., and A. F. Bennett. 1986. Thermal dependence of sprint performance of the lizard *Sceloporus occidentalis*. *J. exp. Biol.* 126: 79-87.
74. Bennett, A. F., and J. A. Ruben. 1986. The metabolic and thermoregulatory status of therapsids. pp. 207-218. In: The Ecology and Biology of Mammal-like Reptiles (N. Hotton, P.D. MacLean, J.J. Roth, and E.C. Roth, eds.). Smithsonian Institution, Washington, D.C.
75. Else, P. L., and A. F. Bennett. 1987. The thermal dependence of locomotor performance and muscle contractile function in the salamander *Ambystoma tigrinum nebulosum*. *J. exp. Biol.* 128: 219-233.
76. Ruben, J. A., A. F. Bennett, and F. L. Hisaw. 1987. Selective factors in the origin of the mammalian diaphragm. *Paleobiology* 13: 54-59.
77. John-Alder, H. B., and A. F. Bennett. 1987. Thermal adaptations in lizard muscle function. *J. comp. Physiol.* 157: 241-252.
78. Bennett, A. F. 1987. Evolution of the control of body temperature: Is warmer better? pp. 421-431 In: Comparative Physiology: Life in Water and on Land (P. Dejours, L. Bolis, C.R. Taylor, and E.R. Weibel, eds.). Liviana Press, Padova.
79. Huey, R. B., and A. F. Bennett. 1987. Phylogenetic studies of coadaptation: Preferred temperatures versus optimal performance temperatures of lizards. *Evolution* 41: 1098-1115.
80. Seymour, R. S., G. J. Webb, A. F. Bennett, and D. R. Bradford. 1987. Effect of capture on the physiology of *Crocodylus porosus*. pp. 253-257. In: Wildlife Management: Crocodiles and Alligators (G.J.W. Webb, S.C. Manolis, and P.J. Whitehead, eds.). Surrey Beatty and Sons Pty. Ltd., Chipping Norton, NSW, Australia.
81. Ruben, J. A., and A. F. Bennett. 1987. The evolution of bone. *Evolution* 41: 1187-1197.

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82. Feder, M. E., A. F. Bennett, R. B. Huey, and W. Burggren, eds. 1987. *New Directions in Ecological Physiology*. Cambridge Univ. Press, New York, 364 pp.
83. Bennett, A. F. 1987. The accomplishments of ecological physiology. pp. 1-8. In: *New Directions in Ecological Physiology* (M.E. Feder, A. F. Bennett, R.B. Huey, and W. Burggren, eds.). Cambridge Univ. Press, New York.
84. Bennett, A. F. 1987. Interindividual variability: An underutilized resource. pp. 147-169. In: *New Directions in Ecological Physiology* (M.E. Feder, A. F. Bennett, R.B. Huey, and W. Burggren, eds.). Cambridge Univ. Press, New York.
85. Bennett, A. F. 1988. Structural and functional determinates of metabolic rate. *Am. Zool.* 28: 699-708.
86. Arnold, S. J., and A. F. Bennett. 1988. Behavioural variation in natural populations. V. Morphological correlates of locomotion in the garter snake *Thamnophis radix*. *Biol. J. Linn. Soc.* 34: 175-190.
87. John-Alder, H. B., M. C. Barnhart, and A. F. Bennett. 1989. Thermal sensitivity of swimming speed and muscle contraction in northern and southern populations of treefrogs (*Hyla crucifer*). *J. exp. Biol.* 142: 357-372.
88. Bennett, A. F., T. Garland, Jr., and P. L. Else. 1989. Individual correlation of morphology, muscle mechanics and locomotion in a salamander. *Am. J. Physiol.* 256 (Reg. Integ. Comp. Physiol. 25): R1200-R1208.
89. Bennett, A. F. 1989. Integrated studies of locomotor performance, pp. 191-202. In: *Complex Organismal Functions: Integration and Evolution in Vertebrates* (D. B. Wake and G. Roth, eds.). Dahlem Konferenzen. John Wiley and Sons, Chichester, England.
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91. Kaufmann, J. S., and A. F. Bennett. 1989. The effect of temperature and thermal acclimation on locomotor performance in *Xantusia vigilis*, the desert night lizard. *Physiol. Zool.* 62: 1047-1058.
92. Jayne, B. C., and A. F. Bennett. 1989. The effect of tail morphology on locomotor performance of snakes: A comparison of experimental and correlative investigations. *J. exp. Zool.* 252: 126-133.
93. Jayne, B. C., and A. F. Bennett. 1990. Scaling of speed and endurance in garter snakes: A comparison of cross-sectional and longitudinal allometries. *J. Zool., London* 220: 257-277.

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94. Huey, R. B., and A. F. Bennett. 1990. Physiological adjustments to fluctuating thermal environments: An ecological and evolutionary perspective, pp. 37-59. In: *Stress Proteins in Biology and Medicine* (R. I. Morimoto, A. Tissieres, and C. Georgopoulos, eds.). Cold Spring Harbor Laboratory Press, New York.
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96. Bennett, A. F., K. M. Dao, and R. E. Lenski. 1990. Rapid evolution in response to high temperature selection. *Nature* 346: 79-81.
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98. Rome, L. C., and A. F. Bennett. 1990. Influence of temperature on muscle and locomotor performance. *Am. J. Physiol.* 259 (Reg. Integ. Comp. Physiol. 28): R189-R190.
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105. Bennett, A. F. 1991. The evolution of activity capacity. *J. exp. Biol.* 160: 1-23.
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Films:

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"The Metabolism and Activity of Lizards", G. A. Bartholomew and A. F. Bennett, U.C.L.A. Film Series on Animal Behavior. 15 min. 1981.

SOCIETY OR OTHER MEETINGS ATTENDED

(since 2000):

- 2000 Society for Integrative and Comparative Biology. Annual Meeting, Atlanta. Paper presented: "Genetic analysis of adaptation to temperature stress," M. M. Riehle, A. F. Bennett, and A. D. Long; "Thermal physiology of fish: Does behavior acclimate? Is hotter better?" S. O'Steen, M. Riehle, and A. F. Bennett.
- 2000 Experimental Biology 2000. Annual Meeting, San Diego. Posters presented: "Genetic analysis of adaptation to temperature stress," M. M. Riehle, A.F. Bennett, and A. D. Long; "Postprandial changes in cardiopulmonary control in the savanna monitor lizard," D. A. Crossley II, J. W. Hicks, and A. F. Bennett; "Metabolic and acid-base status of the monitor lizard *Varanus exanthematicus* during digestion of a meal 10% of body mass," L. K. Hartzler, J. W. Hicks, and A. F. Bennett.
- 2000 Physiological Ecology Meeting. Annual Meeting, Bishop CA. Paper presented: "Testing the thermoregulatory model for the evolution of endothermy," A. F. Bennett, J. W. Hicks, and A. J. Cullum.
- 2000 American Physiological Society Intersociety Meeting: The Integrative Biology of Exercise. Portland ME. Poster presented: "Postprandial exercise increases $V_{O_{2max}}$ in lizards," J. W. Hicks and A. F. Bennett.
- 2001 Society for Integrative and Comparative Biology. Annual Meeting, Chicago. Paper presented: "Postprandial changes in cardio-respiratory responses of the Savannah monitor (*Varanus exanthematicus*)," D. A. Crossley, J. W. Hicks, and A. F. Bennett.
- 2001 Experimental Biology 2001. Annual Meeting, Orlando. Poster presented: "Acid-base regulation of ectothermic vertebrates: A new hypothesis," L. Hartzler, J. W. Hicks, and A. F. Bennett.
- 2001 Society for Experimental Biology. Annual Meeting, Canterbury, England. Invited symposium paper presented: "The genetic architecture of complex traits," M. Riehle, A. Bennett and A. Long. Poster presented: "Postprandial exercise; prioritization or additivity of the metabolic response," A. F. Bennett and J. W. Hicks.
- 2001 Physiological Ecology Meeting. Annual Meeting, Bishop CA. Paper presented: "Exercise, digestion, and $V_{O_{2max}}$," A. F. Bennett and J. W. Hicks.
- 2001 Society for the Study of Evolution. Annual Meeting, Knoxville TN. Invited symposium papers presented: "Genomic analysis of experimental evolutionary studies," A. F. Bennett; "Evolved variation in gene expression: Whole genome analysis of gene expression in thermally adapted *Escherichia coli*," M. M. Riehle, A. F. Bennett, and A. D. Long.
- 2001 Gordon Conference on Microbial Evolution. Williamstown MA.. Posters presented: "Genetic analysis of adaptation to temperature stress: DNA alteration" and "Genetic analysis of

Curriculum Vitae - Albert F. Bennett (continued)

- adaptation to temperature stress: RNA expression,” M. M. Riehle, A. F. Bennett, and A. D. Long.
- 2001 Second International Conference of Comparative Physiology and Biochemistry in Africa. Chobe, Botswana. Invited symposium paper presented: “Experimentally testing evolutionary models of temperature adaptation,” A. F. Bennett and R. E. Lenski.
- 2002 Society for Integrative and Comparative Biology. Annual Meeting, Anaheim. Papers presented: “Evolutionary changes in stress gene expression in thermally adapted lines of *Escherichia coli*,” M. M. Riehle, A. F. Bennett, and A. D. Long; “Role of temperature and pH on enzyme activity in air-breathing ectotherms,” L. K. Hartzler, J. W. Hicks, A. F. Bennett, and J. N. Stinner.
- 2002 Experimental Biology 2002. Annual Meeting, New Orleans. August Krogh Distinguished Lecture in Comparative Physiology: “Experimental Evolution: Generating Biological Novelty for Functional and Genetic Analysis”.
- 2003 Society for Integrative and Comparative Biology. Annual Meeting, Toronto. Paper presented: “The physiology underlying specific dynamic action in pythons,” M. D. McCue, A. F. Bennett, and J. W. Hicks.
- 2003 German Physiological Society. Annual Meeting, Bochum, Germany. Invited Plenary Lecture: “Experimental Evolution: Generating Biological Novelty for Functional and Genetic Analysis”.
- 2003 Gordon Conference on Evolutionary and Ecological Functional Genomics, New London NH. Discussion leader: “New Directions in Evolutionary and Ecological Functional Genomics”
Poster: “Genomic Changes Associated with Thermal Adaptation in *Escherichia coli*,” M. M. Riehle, A. F. Bennett, R. E. Lenski, and A. D. Long.
- 2004 Society for Integrative and Comparative Biology. Annual Meeting, New Orleans. Invited symposium paper: “Differential patterns of gene expression and gene complement in laboratory-evolved lines of *E. coli*,” M. M. Riehle, A. F. Bennett, and A. D. Long; paper presented: “Effects of aerobic exercise training on myosin heavy chain isoform expression in the Savannah Monitor Lizard *Varanus exanthematicus*” A. M. Szucsik, B. C. Rourke, A. F. Bennett, and J. W. Hicks; poster presented: “Production efficiency in prey specialist and generalist populations of *Thamnophis elegans*,” E. J. Britt, J. W. Hicks, and A. F. Bennett.
- 2004 Society for Experimental Biology. Annual Meeting, Edinburgh. Invited symposium paper: “Eat and run: The cardiorespiratory response to elevated metabolic states in reptiles,” J. W. Hicks and A. F. Bennett.
- 2004 Experimental Biology. Annual Meeting, Washington DC. Invited featured topic paper and poster presentation: “The interaction of the respiratory and cardiac pumps during locomotion in reptiles,” S.L. Munns, L.K. Hartzler, A.F. Bennett and J.W. Hicks; poster presented: “The effects of aerobic exercise training on skeletal muscle plasticity in the savannah monitor lizard,” A.M. Szucsik, B.C. Rourke, A.F. Bennett and J.W. Hicks.

Curriculum Vitae - Albert F. Bennett (continued)

- 2004 Third International Conference of Comparative Physiology and Biochemistry in Africa. Ithala, Republic of South Africa. Invited symposium papers presented: “An experimental test of tradeoffs during evolutionary temperature adaptation,” A. F. Bennett and R. E. Lenski, and “Thermoregulation in African chameleons”.
- 2005 Society for Integrative and Comparative Biology. Annual Meeting, San Diego CA. Papers presented: “The effects of joint immobilization on skeletal muscle plasticity in *Varanus exanthematicus*,” A. M. Szucsik, A. F. Bennett and J. W. Hicks, and “Production efficiency in prey specialist and generalist populations of the garter snake (*Thamnophis elegans*),” E. J. Britt, J. W. Hicks and A. F. Bennett. Posters presented: “Genomic changes during adaptation to variable temperatures in *Escherichia coli*,” N. Aguilar-Roca, A. Long and A. F. Bennett, and “Experimental evolutionary adaptation to environmental pH in the bacterium *Escherichia coli*,” B. S. Hughes, A. J. Cullum and A. F. Bennett.
- 2005 Experimental Biology 2005 and 35th International Congress of Physiological Sciences, San Diego CA. Posters presented: “Absence of atrophic response in *Varanus exanthematicus* skeletal muscle following joint immobilization,” A. M. Szucsik, A. F. Bennett and J. W. Hicks, and “Rapid cardiac growth resulting from postprandial metabolism,” J.B. Andersen, B.C. Rourke, A.F. Bennett and J.W. Hicks
- 2006 Society for Integrative and Comparative Biology. Annual Meeting, Orlando FL. Papers presented: “The energetic consequences of prey specialist and generalist populations of three species of garter snake (*Thamnophis elegans*, *T. couchii* and *T. ordinoides*),” E. J. Britt, J. W. Hicks, and A. F. Bennett, “Methionine biosynthesis limits adaptation to high temperature in *Escherichia coli*,” N. M. Aguilar-Roca, F. B.-G. Moore, J. P. Schlumbohm, and A. F. Bennett, and “Experimental evolutionary adaptation to environmental pH in the bacterium *Escherichia coli*,” B. S. Hughes, A. J. Cullum, and A. F. Bennett.
- 2006 Society for Experimental Biology. Annual Meeting, Canterbury, England. Symposium: “Evolutionary Physiology”, organized by M. Berenbrink, A. Bennett, and T. Wang. Papers presented: “Studying physiology from an evolutionary perspective” and “Using experimental evolution to study temperature adaptation”.
- 2006 Arthur M. Sackler Colloquium, Beckman Center of the National Academies, Irvine CA. Symposium: In the Light of Evolution: Adaptation and Complex Design. Paper presented: “Adaptation and Trade-off”, A. F. Bennett and R. E. Lenski.
- 2007 Society for Integrative and Comparative Biology. Annual Meeting, Phoenix AZ. Paper presented: “The energetic consequences for prey specialist and generalist populations in the garter snakes *Thamnophis elegans*, *T. couchii* and *T. ordinoides*,” E. J. Britt, J. W. Hicks, and A. F. Bennett. Poster presented: “Evolutionary changes in the pH tolerance range of experimental *Escherichia coli* lineages,” A. J. Cullum, T. J. Currin, and A. F. Bennett.
- 2007 Experimental Biology 2007, Washington DC. Invited paper presented: “Using experimental evolution to study temperature adaptation,” in the American Physiological Society Symposium “Physiology InFocus: Novel Technologies in Physiology and Medicine.”

Curriculum Vitae - Albert F. Bennett (continued)

SCIENTIFIC SOCIETY AND REVIEWING SERVICE

Society Memberships:

American Academy of Arts and Sciences (Elected Fellow)
American Association for the Advancement of Science (Elected Fellow)
American Physiological Society
American Society of Ichthyologists and Herpetologists
American Society of Naturalists
Phi Beta Kappa
Sigma Xi
Society for Experimental Biology
Society for Integrative and Comparative Biology
Society for the Study of Evolution

Society and Foundation Service:

American Academy of Arts and Sciences
1997,1999-2003 Member, Nominating Committee, Evolutionary Biology Section

American Physiological Society--Comparative Physiology Section
1981 Chair, Nominating Committee
1982-95 Member, Editorial Board, American Journal of Physiology (Regulatory Section)
1987-90 Member, Program Committee
1987-88 Councilor of the Comparative Physiology Section
1988-91 Chair, Comparative Physiology Section
1990 Member, APS Nominating Committee
1994 Mentor for NIDDK Minority Fellow
1998-2000 Member, Exercise 2000 Coordinating Committee
1999-2002 Member, Comparative Physiology 2002 Coordinating Committee
2000-2002 Member, International Physiology Committee

American Society of Ichthyologists and Herpetologists
1978-81 Member, Editorial Board
1982-84 Member, Board of Governors

American Society of Naturalists
1991 Member, Nominating Committee

Educational Testing Service
1994-2002 Chair or Member, Committee of Examiners for the Graduate Record Examination Biology Test

National Aeronautics and Space Administration
2002 Panel Chair, Evolutionary Biology Program
Panel Member, Biological Sciences Chairs Panel
2003 Panel Member, Evolutionary Biology Review Committee

National Science Foundation:

Curriculum Vitae - Albert F. Bennett (continued)

- 1982-86 Panel Member, Population Biology and Physiological Ecology, Division of Biological Resources
- 1986 Organizer, Workshop on New Directions in Ecological Physiology, Population Biology and Physiological Ecology, Division of Biological Resources
- 1989, 93, 95 Panel Member, Polar Biology and Medicine, Division of Polar Programs
- 1990-91 Member, Task Force Looking to the 21st Century, Directorate for Biological, Behavioral, and Social Sciences
- 1993,1995 Panel Member, NSF Graduate Fellowship Applications
- 1993 Chair, NSF Advisory Panel for Physiology Program Cluster, Division of Integrative, Behavioral, and Neural Biology.
- 2003 Panel Member, Ecological and Evolutionary Biology Program
- Society for Integrative and Comparative Biology (American Society of Zoologists)
- 1979 Member, Nominating Committee, Division of Comparative Physiology and Biochemistry
- 1985 Member, Program Committee, 2nd International Congress of CPB
- 1986-90 Member, Editorial Board, Physiological Zoology
- 1986-87 Member, Membership Committee
- 1988 Chair, Membership Committee
- 1987-89 Member, Centennial Planning Committee
- 1989 Member, Program Committee, 3rd International Congress of Comparative Biochemistry & Physiology
- 1989 Society President-Elect
- 1990 Society President
- 1991 Society Past President
- 1992 Member, Committee to Reorganize Business Office
- 1994 Member, Committee on the Structure of the Society
- 2000-03 Chair, Membership Committee
- 2000-03 Member, Program Advisory Committee
- 2002-07 Associate Editor, Physiological and Biochemical Zoology, Comparative Section sponsored journal
- Society for the Study of Evolution
- 1994-97 Associate Editor, Evolution

Reviewing Service:

Grant Proposals:

- Australian Research Council
- Israel Science Foundation
- National Geographic Society
- National Institutes of Health
- General Medical Sciences
- National Program for Advanced Study and Research in China
- National Science Foundation
- Biotic Systems and Resources
- Experimental Program to Stimulate Competitive Research

Curriculum Vitae - Albert F. Bennett (continued)

Global Change
Integrative Biology and Neuroscience
Polar Biology and Medicine
Sea Grant

Natural Environment Research Council (Great Britain)
Organization for Tropical Studies

Journals:

Acta Oecologica, American Journal of Physiology, American Naturalist, American Zoologist, Animal Behaviour, Auk, Australian Journal of Zoology, Behavioral and Neural Biology, Behavioral Ecology and Sociobiology, Biological Journal of the Linnean Society, Canadian Journal of Zoology, Comparative Biochemistry and Physiology, Condor, Copeia, Ecological Monographs, Ecology, Evolution, Evolutionary Monographs, Evolutionary Theory, Functional Ecology, General and Comparative Endocrinology, Genetics, Herpetologica, Journal of Comparative Physiology, Journal of Experimental Biology, Journal of Experimental Zoology, Journal of Herpetology, Journal of Mathematical Biology, Journal of Thermal Biology, Life Sciences, Molecular Evolution, Paleobiology, Physiological and Biochemical Zoology, Proceedings of the Royal Society, Science.

Publishers:

Academic Press; Addison-Wesley; Harper and Row; Holt, Rinehart and Winston; Macmillan Publ. Co.; Princeton University Press; Sinauer Associates, Inc.; Wadsworth; World Book Publishers.

RESEARCH SUPPORT

Federal:

- 1966-1970 National Science Foundation Graduate Fellowship. \$10,000.
- 1975-1977 N.S.F. Grant PCM75-10100 (Regulatory Biology) "Physiological Correlates of Activity in Lizards" - Principal Investigator. \$44,300.
- 1977-1978 N.S.F. Grant PCM75-10100A01 (Regulatory Biology) "Physiological Basis of Metabolism and Activity" - Principal Investigator. \$23,000.
- 1978-1979 N.S.F. Dissertation Support Grant DEB77-00042 (Environmental Biology) "Physiological and Ecological Correlates of Activity" - Project Director; Student Investigator: Todd T. Gleeson. \$2800.
- 1978-1981 N.S.F. Grant PCM77-24208 (Regulatory Biology) "Physiological Basis of Metabolism and Activity" - Principal Investigator. \$113,000.
- 1978-1983 N.I.H. Research Career Development Award K04 AM00351 (Arthritis, Metabolism, and Digestive Diseases) "Physiological Basis of Metabolism and Activity" - Principal Investigator. \$175,000.
- 1981-1983 N.S.F. Grant PCM81-02331 (Regulatory Biology) "Physiological Basis of Metabolism and Activity" - Principal Investigator. \$90,000.
- 1982-1984 N.S.F. Dissertation Support Grant DEB 81-19797 (Environmental Biology) - "Seasonal variations in circulating thyroid hormones and activity capacity in the lizard Dipsosaurus dorsalis" - Project Director; Student Investigator: Henry B. John-Alder. \$ 5,115.
- 1983-1985 N.S.F. Grant PCM 81-02331 A01 (Regulatory Biology) - "Physiological basis of metabolism and activity" - Principal Investigator. \$119,000.
- 1983-1985 N.S.F. Dissertation Support Grant DEB82-14656 (Environmental Biology) - "Ecological and behavioral correlates of body size and locomotory performance in lizards" - Project Director; Student Investigator: Ted Garland, Jr. \$6,000.
- 1985-1988 N.S.F. Grant DCB 85-02218 (Regulatory Biology) - "Physiological basis of metabolism and activity" - Principal Investigator. \$225,000.
- 1986-1989 N.S.F. Grant BSR86-00066 (Population Biology and Physiological Ecology) - "Locomotor performance capacity and survivorship" -Principal Investigator. \$194,000.
- 1986 N.S.F. Grant BSR - 8607794 (Population Biology and Physiological Ecology) - "New directions in physiological ecology: A proposed workshop" - Principal Investigator. \$ 13,000.
- 1988-1990 N.S.F. Grant DPP - 8716005 (Polar Programs) "Physiological adaptation and phylogenetic constraints on reproduction in Antarctic birds" - Principal Investigator. \$63,108.
- 1988-1991 N.S.F. Grant DCB88-12028 (Physiological Processes) "Physiological Basis of Metabolism and Activity: The Thermal Dependence of Muscle Function" - Principal Investigator. \$308,000.

Curriculum Vitae - Albert F. Bennett (continued)

- 1989-1991 N.S.F. Grant DIR88-20664 (Biological Instrumentation) "Acquisition of a High-speed video system for motion analysis" - Co-Principal Investigator with G.V. Lauder and R.K. Josephson. \$62,000.
- 1990-1993 N.S.F. Grant BSR89-18054 (Population Biology and Physiological Ecology) - "Respiration Versus Growth: Interindividual differences in energy allocation" -Principal Investigator. \$266,000.
- 1992-1995 N.S.F. Grant IBN-9118346 (Physiological Processes) "Physiological Basis of Metabolism and Activity: The Thermal Dependence of Muscle Function" - Principal Investigator. \$330,000.
- 1992-1995 N.S.F. Grant DEB-9208662 (Population Biology and Physiological Ecology) - "Experimental Evolutionary Studies of Temperature Adaptation" - Co-Principal Investigator with R. E. Lenski. \$200,000.
- 1995-1996 N.S.F. Grant IBN-9500659 (Ecological and Evolutionary Physiology) "Phenotypic and Evolutionary Adaptation to Temperature" (Travel support for ASZ-SEB sponsored symposium at 1995 SEB meetings) - Principal Investigator. \$5,000.
- 1995-1998 N.S.F. Grant IBN-9420155 (Ecological and Evolutionary Physiology) "Physiological Basis of Metabolism and Activity: Phenotypic and Evolutionary Plasticity of Locomotor Performance Capacity" - Principal Investigator. \$248,000.
- 1995-1999 N.S.F. Grant IBN-9507416 (Ecological and Evolutionary Physiology) - "Experimental Evolutionary Studies of Temperature Adaptation: The Evolution of Bioenergetic and Growth Rate Responses of a Mesophilic Bacterium" - Co-Principal Investigator with R. E. Lenski. \$350,000.
- 1998-2001 N.S.F. Grant IBN-9727762 (Integrative Animal Biology) - "Physiological Basis of Metabolism and Activity: Plasticity and Prioritization of Cardiopulmonary Function in Elevated Metabolic States" - Co-Principal Investigator with J. W. Hicks. \$243,000.
- 1999-2004 N.S.F. Grant IBN-9905980 (Ecological and Evolutionary Physiology) - "Experimental Evolutionary Studies of Temperature Adaptation: Evolution in a Constant Thermal Environment" - Co-Principal Investigator with R. E. Lenski. \$275,000.
- 2001-2005 N.S.F. Grant IBN-0091308 (Integrative Animal Biology) - "Physiological Basis of Metabolism and Activity: Plasticity and Prioritization of Cardiopulmonary Function in Elevated Metabolic States" - Co-Principal Investigator with J. W. Hicks. \$360,000.
- 2001-2007 N.A.S.A. Grant 632731- "Center for Genomic and Evolutionary Studies on Microbial Life at Low Temperatures" - Michael Tomashow, PI. A. F. Bennett and R. E. Lenski, Participants. UCI Subcontract: \$522,500.
- 2001-2003 N.S.F. Dissertation Research Grant IBN-0104963 (Ecological and Evolutionary Physiology) - "The genetic basis of adaptation in thermally adapted Escherichia coli" - Graduate student: Michelle Riehle. \$9000.
- 2002-2007 N.I.H. Institutional National Research Service Award - "Biomedical Informatics" P. Baldi and W. Hatfield, PI's. A. F. Bennett, Mentor.

Curriculum Vitae - Albert F. Bennett (continued)

- 2003-2008 N.I.H. Institutional National Research Service Award – “UCI Multidisciplinary Exercise Sciences Training Program” – Kenneth Baldwin, PI. A. F. Bennett, Mentor.
- 2003-2005 N.S.F. FIBR Planning Proposal 0307044 – “Proteomic analysis of critical targets of environmental stress” -- M. E. Feder, P.I. A. F. Bennett, Co-P.I. \$49,900.
- 2007-2011 N.S.F. Grant DBI-0731655 -- "URM: Excellence in Undergraduate Research and Mentoring in the Biological Sciences"-- L. Mota-Bravo, P.I. A. F. Bennett, Co-PI. \$799,108.
- 2008-2011 N.S.F. Grant IOS-0748903 -- "Experimental Evolutionary Studies of Temperature Adaptation"-- A. F. Bennett, P.I. B. Gaut, A. Long, Co-PIs. \$900,000.

Non-Federal:

- 1971-1973 Miller Research Foundation, U.C. Berkeley -- Postdoctoral Research Fellowship. \$26,000.
- 1974-1975 Faculty Research Funds, School of Biological Sciences, U.C. Irvine. \$2,900.
- 1977 Faculty Travel Funds, Graduate Division, U.C. Irvine. \$600.
- 1980 Biomedical Support Grant, School of Biological Sciences U.C. Irvine. \$10,000.
- 1988 Faculty Research Funds, School of Biological Sciences, U.C. Irvine (with R. E. Lenski). \$1,000.
- 1989 Irvine Faculty Research Fellowship, Academic Senate Committee on Research, U.C. Irvine (with R.E. Lenski). \$10,000.

POSTDOCTORAL RESEARCHER AND GRADUATE STUDENT SUPERVISION

Postdoctoral Supervisor:

- Robert W. Putnam. Ph.D., Univ. of California, Los Angeles. 1978-80. Professor, Wright State University Medical School.
- Todd Gleeson. Ph.D., Univ. of California, Irvine. 1979. Professor, University of Colorado.
- Richard L. Marsh. Ph.D., University of Michigan. 1980-1982. Professor, Northeastern University.
- Henry John-Alder. Ph.D., Univ. of California, Irvine. 1983-1984. Professor, Rutgers University.
- Paul Else. Ph.D., University of Wollongong, Australia. 1984-1985. Head of Department, University of Wollongong, New South Wales, Australia.
- Christopher Daniels. Ph.D., Univ. of New England, Armidale, Australia. 1984-1985. Lecturer, University of Adelaide, South Australia.
- Christopher Barnhart. Ph.D., Univ. of California, Los Angeles. 1986-1987. Associate Professor, Southwest Missouri State University.
- Bruce C. Jayne. Ph.D., Michigan State University. 1986-1989. Professor, University of Cincinnati.
- Peter C. Wainwright. Ph.D., University of Chicago. 1988-1990. Associate Professor, University of California, Davis.
- B. Michael Walton. Ph.D. University of Chicago. 1989-1990. Associate Professor, Cleveland State University.
- Timothy P. Johnson. Ph.D. University of St. Andrews, Scotland. 1991-1995. Lecturer, University of Glamorgan, Wales.
- Charles C. Peterson. Ph.D. Univ. of California, Los Angeles. 1992-1994. Assistant Professor, Hofstra University.
- Shyrl O'Steen. Ph.D. Univ. of Chicago. 1995-1999. Assistant Professor, Seattle Univ..
- Anne Bronikowski. Ph.D., University of Chicago. 1997-1999. Assistant Professor, Iowa State University.
- Dane Crossley. Ph.D., North Texas Univ. 1999-2001. Assistant Professor, Univ. of North Dakota
- Suzanne Munns. Ph.D., LaTrobe Univ., Australia. 2002-2004. Lecturer, James Cook Univ.
- Erin Seifert. Ph.D., McGill Univ., Canada. 2002-2003. Post-Doctoral Fellow, Univ. of Ottawa.
- Nancy Aguilar. Ph.D., Univ. Calif. San Diego. 2002-2006. Howard Hughes Pedagogical Fellow, UC Irvine..
- Johnnie Andersen. Ph.D. University of Aarhus. 2004-2005. Associate Professor, Univ. Aarhus.

Graduate Student Supervision:

Chair - Doctoral Committee:

- Todd Gleeson. Degree awarded 1979. Dean and Professor, University of Colorado.
- Henry John-Alder. Degree awarded 1983. Chair and Professor, Rutgers University.
- Theodore Garland, Jr. Degree awarded 1985. Professor, University of California, Riverside.

Curriculum Vitae - Albert F. Bennett (continued)

Brett Adams. Degree awarded 1987. Associate Professor, Utah State University.
Carey D. Chevalier. Degree awarded 1991. Associate Professor, Missouri Western State College.

Zoe A. Eppley. Degree awarded 1991. Senior Scientist, InDyne, Inc.

Craig Frank. Degree awarded 1992. Associate Professor, Fordham University.

Alistair Cullum. Degree awarded 1997. Assistant Professor, Creighton University.

Timothy Watkins. Degree awarded 1997. Program Officer, National Geographic Society.

James McLister. Degree awarded 2000. Assistant Professor, Indiana University, South Bend

Michelle Riehle. Degree awarded 2003. Postdoctoral Researcher, University of Minnesota

Bradley S. Hughes. Degree awarded 2007. Lecturer (Education), UCIrvine.

Eric Britt. Degree awarded 2007. Postdoctoral Researcher, University of South Florida

Chair - Master's Thesis Committee:

Elaine Burke. Degree awarded 1978. Assistant Professor, Oregon Health & Science University

Marshall McCue. Degree awarded 2003. Ph.D. student, University of Arkansas

Graduate Advisor:

Jason Schlumbohm

Member - Doctoral Committee:

John Ruben, U.C. Berkeley (Degree awarded 1975)

Martin Feder, U.C. Berkeley (Degree awarded 1977)

Andrew Lechner, U.C. Riverside (Degree awarded 1977)

Robert Putnam, U.C.L.A. (Degree awarded 1978)

Robert Rubin, U.C. Irvine (Degree awarded 1979)

Gordon Mitchell, U.C. Irvine (Degree awarded 1979)

Ronald Marlow, U.C. Berkeley (Degree awarded 1979)

Jerry Stinner, U.C. Riverside (Degree awarded 1980)

Michael Castellini, U.C. San Diego (Degree awarded 1980)

Neal Ready, U.C. Irvine (Degree awarded 1983)

Kenneth Morgan, U.C.L.A. (Degree awarded 1985)

Michael Rice, U.C. Irvine (Degree awarded 1987)

Minou Djawdan, U.C. Irvine (Degree awarded 1989)

Jean Malamud, U.C. Irvine (Degree awarded 1989)

Vincent Caiozzo, U.C. Irvine (Degree awarded 1991)

Jefferey Kaufmann, U.C. Irvine (Degree awarded 1992)

Armand Leroi, U.C. Irvine (Degree awarded 1993)

Douglas Syme, U.C. Irvine (Degree awarded 1993)

Egle Krosniunas, U.C. Irvine (Degree awarded 1993)

Miriam Ashley-Ross, U.C. Irvine (Degree awarded 1994)

Gary Gillis, U.C. Irvine (Degree awarded 1997)

Lara Ferry, U.C. Irvine (Degree awarded 1998)

Bryan Rourke, U.C. Irvine (Degree awarded 2000)

Curriculum Vitae - Albert F. Bennett (continued)

Cheryl Baudini, U.C. Irvine (Degree awarded 2000)
Marjorie Patrick, U.C. Irvine (Degree awarded 2001)
Donna Folk, U.C. Irvine (Degree awarded 2003)
Lynn Hartzler, U.C. Irvine (Degree awarded 2004)
Justin Shaefer, U.C. Irvine (Degree awarded 2007)
Amanda Szucsik, U.C. Irvine
Mason Dean, U. C. Irvine
Andrew Clark, U. C. Irvine

Member - Master's Thesis Committee:

Steven Thompson, U.C. Irvine (Degree awarded 1977)
Amy Salzman, U.C. Irvine (Degree awarded 1980)
Roberta Braun, U.C. Irvine (Degree awarded 1980)

UNIVERSITY COMMITTEE SERVICE
(since 2000)

2000-2001

School of Biological Sciences
Administrative Cabinet, member
Department of Ecology and Evolutionary Biology
Department Chair

2001-2002

School of Biological Sciences
Administrative Cabinet, member
Department of Ecology and Evolutionary Biology
Department Chair

2002-2003

Phi Beta Kappa, Mu Chapter, Vice President
School of Biological Sciences
Administrative Cabinet, member
Department of Ecology and Evolutionary Biology
Department Chair

2003-2004

Phi Beta Kappa, Mu Chapter, President
School of Biological Sciences
Administrative Cabinet, member
Department of Ecology and Evolutionary Biology
Department Chair

2004-2005

School of Biological Sciences
Administrative Cabinet, member
Department of Ecology and Evolutionary Biology
Department Chair

2005-2006

School of Biological Sciences
Administrative Cabinet, member
Department of Ecology and Evolutionary Biology
Department Chair

2006-2007

School of Biological Sciences
Acting Dean

2007-2008

Curriculum Vitae - Albert F. Bennett (continued)

School of Biological Sciences
Dean

Curriculum Vitae - Albert F. Bennett (continued)

TEACHING (since 2000)

2000-2001

Bio. Sci. 109	Physiology
Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 210ABC	Foundations of Physiology

2001-2002

Bio. Sci. 109	Physiology
Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 210ABC	Foundations of Physiology

2002-2003

Bio. Sci. 2	Freshman Seminar
Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 208	Organismal Biology & Physiology
E&E Biol. 210ABC	Foundations of Physiology

2003-2004

Bio. Sci. H90	Idiom and Practice of Science
Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 208	Organismal Biology & Physiology
E&E Biol. 210ABC	Foundations of Physiology

2004-2005

Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 208	Organismal Biology & Physiology
E&E Biol. 210ABC	Foundations of Physiology

2005-2006

Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 208	Ecological and Evolutionary Physiology
E&E Biol. 210ABC	Foundations of Physiology

Curriculum Vitae - Albert F. Bennett (continued)

2006-2007

Bio. Sci. 2	Freshman Seminar
Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology
E&E Biol. 208	Ecological and Evolutionary Physiology

2007-2008

Bio. Sci. 2	Freshman Seminar
Bio. Sci. 199	Undergraduate Research
E&E Biol. 200	Research in Ecology & Evolutionary Biology