

Curriculum Vitae

TOMASZ K. BAUMILLER

Museum of Paleontology/Department Earth & Environmental Sciences
University of Michigan
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EDUCATION

PhD, University of Chicago, Geophysical Sciences (Paleontology)
MS, University of Illinois, Geological Sciences
AB, University of Chicago, Geophysical Sciences

PROFESSIONAL EXPERIENCE

1996- Professor, Earth & Environmental Sciences & Museum of Paleontology, U. Michigan
2011-2016 Faculty Affiliate, Program in the Environment, U. Michigan
2010 Fulbright Senior Research Scholar, University of Otago, New Zealand
2002-2003 Fulbright Senior Research Scholar, Institute of Paleobiology, Polish Academy of Sciences
2002 (summer) Visiting Scientist, National Museum of Natural History, Paris
1995-1996 Thomas D. Cabot Associate Professor/Curator Department of Earth & Planetary
 Sciences/Museum of Comparative Zoology, Harvard
1991-1995 Assistant Professor/Curator, Department of Earth & Planetary Sciences/Museum of
 Comparative Zoology, Harvard
1992 (summer) Visiting Scientist, Tübingen University, Tübingen, Germany
1990-1991 The Ohio State University Post-Doctoral Fellow
1980-1982 High School Math and Science teacher, American Community School, Beirut, Lebanon

HONORS/AWARDS

2016-2017 Fulbright Senior Research Scholar, National History Museum, Vienna, Austria
2014 Fellow of the Paleontological Society
2011 *Palaos*, Honorable Mention Paper for 2010
2010 Fulbright Senior Research Scholar, University of Otago, New Zealand
2009-2010 Faculty Fellowship Enhancement Award, University of Michigan
2005 UROP Faculty Recognition Award for Outstanding Research Mentorship
2002-2003 Fulbright Senior Research Scholar, Institute of Paleobiology, Polish Academy of Sciences
2002-2003 Faculty Fellowship Enhancement Award, University of Michigan
1995-1996 Thomas D. Cabot Associate Professor, Harvard
1990-1992 The Ohio State University Post-Doctoral Fellowship
1992 *Journal of Paleontology*, Best Paper Honorable Mention
1983 University Fellowship, University of Illinois
1975 University of Chicago, Logan Gridley Scholarship

EDITORIAL AND PROFESSIONAL SERVICE

2011-2014 *Paleontological Society*: Schuchert Award Committee
2013 Bergen Research Foundation
2013 External Reviewer: Nagoya University Museum
2011 External reviewer: Geology Department, University of Cincinnati
2010-2014 *Journal of Paleontology*, Associate Editor
2004-2007 *Paleobiology*, Co-Editor (with R. Burnham, P. Gingerich)

2004-2007	<i>Paleontological Society Council</i>
2006	NSF Panelist (Sedimentary Geology & Paleobiology)
2004-2016	<i>Paläontologische Zeitschrift</i> , Editorial Board
2002	<i>Paleontological Society Symposium: Evolutionary morphology</i> , Convener
2001-2002	LSA, U. Michigan, Committee to “Rethink” the Honors Program
2000-2002	<i>Geology</i> , Editorial Board
1994-2000	<i>Paleontological Society International Research Program</i> , Board member.
1996-	<i>Acta Palaeontologica Polonica</i>, Editorial Board

INVITED PRESENTATIONS (Invitations to meetings & symposia not included)

2015	Museu da Lourinhã, Portugal
2015	University of Chicago
2012	University of Cincinnati
2010	Queensland University, Brisbane
2009	Brigham Young University-Idaho
2008	Michigan Road Scholars Alumni Meeting
2008	Michigan Mineralogical Society, Cranbrook Institute of Science
2006	Exhibit Museum, University of Michigan
2006	Michigan State University
2006	University of Kansas
2005	University of Kansas
2005	University of Chicago
2005	Syracuse University
2003	Institute of Paleobiology, Polish Academy of Sciences
2003	Basel Naturhistorisches Museum
2003	Uppsala University
2003	University of Silesia
2003	Universidad Complutense de Madrid
2002	Virginia Tech University
2002	Paleontological Society Short Course (Fossil record of predation)
2002	Humboldt University
2001	Beloit College
2000	Ohio State University
1998	University of Cincinnati
1998	University of Chicago
1997	Paleontological Society Short Course (Geobiology of echinoderms)
1997	University of Illinois
1995	University of Michigan
1993	Smith College
1992	University of Tübingen
1991	Indiana University
1991	University of Cincinnati
1991	Harvard University
1991	University of Michigan

GRANTS**Extramural**

(NSF-National Science Foundation; NGS-National Geographic Society; PRF-Petroleum Research Fund)
 (new: **bold**; continuing: *italics*)

2011-2015	<i>NSF-DEB, Collaborative Research: Assembling the Tree of Life</i>
2013-2014	<i>NGS-Predation and its effects on the bathymetric distribution of crinoids</i>
2009-2012	<i>NSF-BRC, UM Museum of Paleontology IC: Databasing and Web-Accessibility</i>
2008-2010	<i>NGS, Crinoid-cidaroid biotic interactions and their evolutionary implications</i>
2008-2010	<i>NSF-EAR, Predation in evolution</i>
2004-2007	<i>NSF-BRC, Invertebrate collections at the UMMP</i>
2002-2004	<i>PRF, Parasitism and escalation in the fossil record</i>
1999-2002	<i>NSF-EAR, Predation rates & prey escalation in Paleozoic marine benthic ecosystems</i>
1997-2000	<i>NSF-EAR, Interference avoidance hypothesis & scaling in crinoids</i>
1997-1999	<i>NATO, Comparative studies of bathyal crinoids</i>
1995-1998	<i>NSF-BRC, Fossil Invertebrate Collections at the MCZ</i>
1993-1998	<i>NSF-EAR, Muscle/ligament problem in crinoids</i>
1991-1993	<i>NSF-EAR, Crinoid stalk taphonomy</i>
1990	<i>Paleontological Society grant-in-assistance</i>
1987	<i>NGS-3624-87, Ecology of stalked crinoids</i>
1987	<i>Sigma Xi, Student Research Grant</i>
1984	<i>Sigma Xi, Student Research Grant</i>
1984	<i>R.M. Louer Grant, Field Museum of Natural History</i>
1984	<i>Penrose Research Grant, Geological Society of America</i>

Intramural Teaching and Research Awards

(CRLT-Center for Research on Learning and Teaching; OVPR-Office of Vice President for Research)

2015	UM- CRLT Instructional Development Fund
2009	UM- CRLT Instructional Development Fund
2008	UM- CRLT Multimedia Teaching Award
2007	UM- Public Goods Council
2007	UM-CRLT Instructional Development Fund
2005	UM-CRLT Multimedia Teaching Award
2005	UM-LSA Multimedia Teaching Award
2004-2005	UM-Turner Award, University of Michigan. Eocene predation
2000-2001	UM-OVPR, Cidaroid-crinoid interactions
2000	UM-UROP mini-grant
1998-1998	UM-Turner Award, University of Michigan
1993	Harvard-Teaching Innovation, Faculty of Arts and Sciences
1991-1995	Harvard-Fieldwork grants from the Shaler Fund
1990	University of Chicago-Hinds Research Fund
1987	University of Chicago-Hinds Research Fund

STUDENTS SUPERVISED**UNDERGRADUATE***Senior theses*

1994	K. Rosenkrantz, Harvard
1995	R. Sperry, Harvard
2007	M. Tuura, UM
2014	C. Meadows, UM

University Research Opportunity Program (UROP)

1999/2000 B. Deline
2000/2001 B. Deline
2001/2002 E. K. Roberts
2002/2003 E. K. Roberts
2004/2005 M. Tuura
2005/2006 M. Tuura, A. Williams, A. Beehr
2006/2007 E. Koury, I. Kakwan, N. Krupansky
2007/2008 S. Groat, B. Groeneveld, K. Eom, Lan She Chan
2008/2009 B. Groeneveld, J. Ryan
2009/2010 G. Ignarri, S. Klapman, A. Taguchi
2011/2012 C. Meadows, C. Wilkinson
2013/2014 K. Koats, A. Reed

GRADUATE

MS

A. Abban (Harvard 1995); L. Rome (Harvard 1996); P. Kaplan (UM'00); A. Bradley (UM'02); M. Tuura (UM'08)

PhD

1997 G. Llewellyn
1999 L. Leighton
2004 F. Gahn
2009 D. Chattopadhyay
2011 G. A. Janevski,
2014 K. Puren
2014 V. J. Syverson
M. A. Veitch, M. (2019)

PhD committee member:

UM:

T. Ku ('96), D. Surge ('01), D. Graf (Biology, '01), A. Dutton ('03), F. Hasiuk, ('08), J. Whitlock ('10),
T. Ikejiri (ABD), M. D'Emic ('11), E. Moacdieh (ABD), J. Li (EEB, '13), J. Fronimos ('15), K. Meyer ('16)

Harvard:

L. Ivany ('96), D. Kendrick ('96), K. Schopf, L. Smith ('95), M. Yacobucci ('99)

Reims (France):

J. David ('98).

POST DOCS SPONSORED

1995/1996 P. Holterhoff; Present position: Assistant Professor, Texas Tech University

PROFESSIONAL SOCIETIES

American Association Advancement of Science (AAAS), Geological Society of America (GSA),
Paleontological Society (PS), Sigma Xi, Society for Sedimentary Geology (SEPM)

PUBLICATIONS (* = student)**2016** -----

Stevenson, A., Gahn, F. J., **Baumiller, T. K.**, and Sevastopulo, G. D. (in review). Predation on feather stars by regular echinoids as evidenced by laboratory and field observations and its paleobiological implications. *Paleobiology*

96. Fronimos, J. A., Wilson, J. A. and **Baumiller, T. K.** (jn press) Polarity of concavo-convex intervertebral joints in the necks and tails of sauropod dinosaurs. *Paleobiology*

95. Gorzelak, P., Salamon, M. A. Trzesiok, D, Lach, R., and **Baumiller, T. K.** 2016. Diversity dynamics of post-Paleozoic crinoids - in quest of the factors affecting crinoid macroevolution. *Lethaia* 49: 231-244 (DOI: 10.1111/let.12141)

2015 -----

94. Meadows*, C., Fordyce, E., and Baumiller, T. K. 2015. Drill holes in the irregular echinoid, *Fibularia*, from the Oligocene of New Zealand. *PALAIOS* 30: 810-817 (DOI: 10.2110/palo.2015.043)

93. Syverson* V. J., Messing, C. J. Stanley, K. and **Baumiller, T. K.** 2015. Growth, injury, and population dynamics in the extant cyrtocrinid *Holopus mikihe* (Crinoidea, Echinodermata) near Roatán, Honduras. *Bulletin of Marine Science* 91:47-61 DOI: [10.5343/bms.2014.1061](https://doi.org/10.5343/bms.2014.1061)

2014 -----

92. Syverson* V. J. and **Baumiller, T. K.** 2014. Temporal trends of predation resistance in Paleozoic crinoid arm branching morphologies. *Paleobiology* 40: 417-427

91. Salamon, M. A., Gorzelak, P., Niedźwiedzki, R., Trzęsiok, D. **Baumiller, T. K.** 2014 Trends in shell fragmentation as evidence of mid-Paleozoic changes in marine predation. *Paleobiology* 40: 14-23

2013 -----

90. Chattopadhyay, D., Rathie, A., Miller, D. J. and **Baumiller T. K.** 2013. Hydrodynamic effects of drill holes on postmortem transportation of bivalve shells and its taphonomic implications. *PALAIOS* 28: 875-884

89. **Baumiller, T. K.** 2013. Ephemeral injuries, regeneration frequencies and intensity of the injury-producing process. *Marine Biology* 160: 3233-3239 (DOI: 10.1007/s00227-013-2302-9)

88. **Baumiller, T. K.** 2013 Arm regeneration frequencies in *Florometra serratissima* (Crinoidea, Echinodermata): impact of depth of habitat on rates of arm loss, *Cahiers de Biologie Marine* 54: 571-576

87. **Baumiller, T. K.** and Gahn, F. J. 2013. Reconstructing predation pressure on crinoids: estimating Arm-Loss Rates from regenerating arms, *Paleobiology* 39:40-51 DOI: <http://dx.doi.org/10.1666/0094-8373-39.1.40>

2012 -----

86. Gorzelak, P., Salamon, M. A. and **Baumiller, T. K.** 2012. Predator-induced macroevolutionary trends in Mesozoic crinoids. *PNAS* 109:7004-7007.

Featured in: *The University Record* http://ur.umich.edu/1112/Apr23_12

2011 -----

85. **Baumiller, T. K.** and Janevski*, G. A. 2011. On the swimming function of crinoid cirri. *Journal Swiss Palaeontology* 130: 19-24. doi.10.1007/s13358-010-0004-1

2010 -----

84. Gahn, F. J. and **Baumiller, T. K.** 2010. Evolutionary history of regeneration in crinoids (Echinodermata). *Integrative and Comparative Biology* 50(4): 514a-514m. doi:10.1093/icb/icq155

83. **Baumiller, T. K.**, Marinovic, J. C., Tuura*, M. E., Damstra, E. S., Miller, D. J. 2010. Signs of boring predation on Middle Devonian hyolithids from the Michigan Basin. *PALAIOS* 25: 636-641

82. Janevski*, G. A. and **Baumiller, T. K.** 2010. Could a stalked crinoid swim? A biomechanical model and characteristics of swimming crinoids. *PALAIOS* 25: 588-596

81. **Baumiller, T. K.**, Salamon, M., Gorzelak, P., Mooi, R., Messing, C. G., and Gahn*, F. J. 2010. Benthic predation drove early Mesozoic crinoid radiation. *PNAS* 107 (13): 5893-5896
Featured in: *The University Record* http://ur.umich.edu/0910/Mar22_10/927-urged-on-by
80. Chattopadhyay*, D. and **Baumiller, T. K.** 2010. Effect of durophagy on drilling predation: a case study of Cenozoic molluscs from North America. *Historical Biology* 22: 367-379. doi: 10.1080/08912961003600445
- 2009** -----
79. Chattopadhyay*, D. and **Baumiller, T. K.** 2009. An experimental assessment of feeding rates of the muricid gastropod, *Nucella lamellosa* and its effect on cost-benefit analysis. *Journal of Shellfish Research* 28: 883-889
78. Janevski*, G. A. and Baumiller, T. K. 2009. Testing for extinction selectivity in the fossil record of Phanerozoic marine invertebrates. *Paleobiology* 35: 553-564
77. Tuura*, M. E., **Baumiller, T. K.**, McNamara, K. J. 2008. Drill holes in Australian Cenozoic brachiopods. *Historical Biology* 20: 203-212
- 2008** -----
76. **Baumiller, T. K.** 2008. Crinoid ecological morphology. *Annual Reviews of Earth and Planetary Sciences* 36: 221-49
75. **Baumiller, T. K.**, Mooi R. and Messing, C. G. 2008. Urchins in the meadow: paleobiological and evolutionary implications of cidaroid predation on crinoids. *Paleobiology*. 34: 22-34
74. **Baumiller, T. K.**, Gahn*. F. J., Hess, H., and Messing, C. G. 2008. Chapter 1: Taphonomy as an indicator of behavior among fossil crinoids. Pp.7-20. In: Ausich, W. I. and Webster, G. (eds), *Echinodermata Paleobiology*. Indiana University Press.
- 2007** -----
73. **Baumiller, T. K.** 2007. Sea lilies on the move: evidence of rapid crawling in isocrinids. *Priscum* 16: 2-3
72. Chattopadhyay*, D. and **Baumiller, T. K.** 2007. Drilling under threat: an experimental assessment of drilling behavior of *Nucella lamellosa* in the presence of a predator. *Journal of Experimental Marine Biology and Ecology* 352: 257-266
71. **Baumiller, T. K.** and Messing, C. G. 2007. Stalked crinoid locomotion and its ecological and evolutionary implications. *Palaeontologia Electronica* 10 (1): 2A;10p, 12MB; http://palaeo-electronica.org/paleo/2007_1/crinoid/index.html
70. Messing, C. G., David, J., Roux, M., Améziane N., and **Baumiller, T. K.** 2007 *In situ* stalk growth rates in tropical western Atlantic sea lilies (Echinodermata: Crinoidea). *Journal of Experimental Marine Biology and Ecology* 353: 211-220
- 2006** -----
69. **Baumiller, T. K.**, Bitner, M. A., and Emig, C.C. 2006. High frequency of drill holes in brachiopods from the Pliocene of Algeria and its ecological implications. *Lethaia* 39: 313-320
68. Gahn*, F. J. and **Baumiller, T. K.** 2006. Platyceratid gastropod behaviour as a guide to camerate crinoid functional morphology. *Historical Biology* 18: 397-404
- 2005** -----
67. Kowalewski, M., Hoffmeister, A. P., **Baumiller, T. K.** & Bambach, R. K. 2005. Secondary evolutionary escalation between brachiopods and enemies of other prey. *Science* 308: 1774-1777
Featured in: *The University Record* http://www.ur.umich.edu/0405/Jun27_05/21.shtml
66. Cosma*, T. N. and **Baumiller, T. K.** 2005. A trace fossil on a Silurian pelecypod: evidence of predatory boring? *Ichnos* 12: 1-5
65. Gahn*, F. J. and **Baumiller, T. K.** 2005. Arm regeneration in Mississippian crinoids-evidence of intense predation pressure in the Paleozoic? *Paleobiology* 31: 151-164

2004

64. **Baumiller, T. K.** and Bitner, M. A. 2004. A case of intense predatory drilling of brachiopods from the Middle Miocene of southeastern Poland. *Palaeogeography, Palaeoclimatology, Palaeoecology* 214: 85-95
63. **Baumiller, T. K.** and Gahn*, F. J. 2004. Testing Predation-Driven Evolution using Mid-Paleozoic Crinoid Arm Regeneration. *Science* 305: 1453-1455
62. **Baumiller, T. K.**, Gahn*, F. J. and Savill, J. 2004 New data and interpretations of the crinoid-platycteratid relationship. Pp. 393-398. In: Heinzeller, T. and Nebelsick, J. H. (eds), *Echinoderms: Munchen*. Taylor and Francis, London.
61. Gahn*, F. J. and **Baumiller, T. K.** 2004. A bootstrap analysis for comparative taphonomy of Early Mississippian crinoids from the Wassonville Cycle of Iowa. *Palaios* 19: 17-38
60. Hoffmeister, A. P., Kowalewski, M., **Baumiller, T. K.** and Bambach, R. K. 2004. Drilling predation in brachiopods and bivalves from the Permian of the Glass Mountains, West Texas. *Acta Palaeontologica Polonica* 49: 443-454

2003

59. Deline*, B., **Baumiller, T. K.**, Kaplan*, P., Kowalewski, M. and Hoffmeister, A. P. 2003. Edge-drilling on the brachiopod *Perditocardinia* cf. *P. dubia* from the Mississippian of Missouri (USA). *Palaeogeography, Palaeoclimatology, Palaeoecology* 201: 211-219
58. Aberhan, M. and **Baumiller, T. K.** 2003 Selective extinction among Early Jurassic bivalves: A consequence of anoxia. *Geology* 31: 1077-1080
57. **Baumiller, T. K.** 2003. Evaluating the interaction between platycteratid gastropods and crinoids: a cost benefit approach. *Palaeogeography, Palaeoclimatology, Palaeoecology* 201: 199-209
56. Gahn*, F. J., Fabian, A., and **Baumiller, T. K.** 2003. Additional evidence for the drilling behavior of Paleozoic gastropods. *Acta Palaeontologica Polonica* 48: 156
55. Gahn*, F. J. and **Baumiller, T. K.** 2003. Infestation of Middle Devonian (Givetian) camerate crinoids by platycteratid gastropods and its implications on the nature of their biotic interaction. *Lethaia* 36: 71-82
54. Hoffmeister, A. P., Kowalewski, M., Bambach, R. K., and **Baumiller, T. K.** 2003. Intense drilling predation in the Carboniferous brachiopod *Cardiarina cordata* Cooper, 1956. *Lethaia* 36:107-118.
53. **Baumiller, T. K.** 2003 Experimental and biostratigraphic disarticulation of crinoids: taphonomic implications. Pp. 243-248. In: J. -P. F eral and B. David (eds), *Echinoderm Research 2001*. Balkema, Lisse.
52. El aume, M., Am eziane, N. and **Baumiller, T. K.** 2003. Developmental mode, egg size, larval size and some evolutionary considerations in comatulids (Crinoidea; Echinodermata). Pp. 307-315. In: J. -P. F eral and B. David (eds), *Echinoderm Research 2001*. Balkema, Lisse.
51. **Baumiller, T. K.** and Gahn*, F. J. 2003. Chapter 10, Predation on crinoids. Pp. 263-278. In: P. Kelley, M. Kowalewski, T. H. Hansen (eds). *Predator-prey interactions in the fossil record*, Topics in Geobiology 20, Kluwer Academic/Plenum Publishers, NY.

2002

50. **Baumiller, T. K.** and Gahn*, F. J. 2002. Fossil record of parasitism on marine invertebrates with special emphasis on the platycteratid-crinoid interaction. In: Kowalewski, M. and Kelley, P. H. (eds), Fossil Record of Predation, *Paleontological Society Special Papers* 8: 195-209
49. **Baumiller, T. K.** 2002. Multi-snail infestation of Devonian crinoids and the nature of platycteratid-crinoid interactions. *Acta Palaeontologica Polonica* 47: 133-139

2001

48. Kaplan*, P. and **Baumiller, T. K.**, 2001. The misuse of Occam's razor that trims more than just the fat. *Palaios* 16: 540-542
47. **Baumiller, T. K.** 2001. Review of "Fossil Crinoids", edited by H. Hess, W. I. Ausich, C. Brett, and M. Simms. *Historical Biology* 15: 173-175

46. **Baumiller, T. K.** 2001. Light stable isotope geochemistry of the crinoid skeleton and its use in biology and paleobiology. Pp. 107-112. In: Barker, M. (ed), *Echinoderms 2000*. Balkema, Lisse.
- 2000** -----
45. **Baumiller, T. K.** 2000. Review of "Functional Morphology of the Invertebrate Skeleton" edited by E. Savazzi. *Palaios* 15: 256-257
44. **Baumiller, T. K.** 2000. The Crinoidea. McGraw-Hill Encyclopedia of Science and Technology (www.accessscience.com)
43. **Baumiller, T. K.** 2000. Inadunata. McGraw-Hill Encyclopedia of Science and Technology. (www.accessscience.com)
42. Kaplan*, P. and **Baumiller, T. K.** 2000. Taphonomic inferences on boring habit in the Richmondian *Onniella meeki* epibole. *Palaios* 15: 499-510
41. Plotnick, R. and **Baumiller, T. K.** 2000. Invention by evolution: functional analysis in paleobiology. *Paleobiology* 26: 305-321
- 1999** -----
40. **Baumiller, T. K.** 1999. Enough remains to work with. *Science* 283: 1271
39. **Baumiller, T. K.** 1999. A neovitalist view of evolution. *Complexity* 4: 39-40
38. **Baumiller, T. K.** 1999. A new look at the functional morphology of blastoids. Pp. 243-248. In: M. D. Candia Carnevali and F. Bonasoro (eds), *Echinoderm Research 1998*. Balkema, Rotterdam.
37. **Baumiller, T. K.**, Leighton*, L. R. and Thompson, D. 1999. Boreholes in Mississippian spiriferide brachiopods and their implications for Paleozoic gastropod drilling. *Palaeogeography, Palaeoclimatology, Palaeoecology* 147: 283-289
36. McClintock, J., Baker, W., **Baumiller, T. K.** and Messing, C. G. 1999. Lack of chemical defense in two species of stalked crinoids: support for the predation hypothesis for Mesozoic bathymetric restriction. *Journal of Experimental Marine Biology and Ecology* 232: 1-7
- 1998** -----
35. David, J., Messing, C. G., **Baumiller, T. K.**, Améziante, N. and Roux, M. 1998. Mesures directes et modélisation de la croissance rapide d'un crinoïde pédonculé bathyal au large des Bahamas. *Comptes Rendu de la Academie des Sciences de la vie, Paris* 321: 771-775
34. Schopf*, K. and **Baumiller, T. K.** 1998. A biomechanical approach to Ediacaran hypotheses: how to weed the Garden of Ediacara. *Lethaia* 31: 89-97
33. Ausich, W. I. and **Baumiller, T. K.** 1998. Disarticulation patterns in Ordovician crinoids: implications for the evolutionary history of connective tissues in the Crinoidea. *Lethaia* 31: 113-123
32. Kammer, T. W., **Baumiller, T. K.** and Ausich, W. I. 1998. Evolutionary significance of differential species longevity in Osagean-Meramecian (Mississippian) crinoid clades. *Paleobiology* 24: 155-176
31. Tshudy, D., **Baumiller, T. K.** and Sorhannus, U. 1998. Morphological change in the clawed lobster *Hoploparia* (Nephropidae) from the Cretaceous of Antarctica. *Paleobiology* 24: 64-73
30. **Baumiller, T. K.** and Rome*, L. 1998. The interference avoidance hypothesis and the spatial distribution of *Endoxocrinus parrae* (Crinoidea, Echinodermata), pp. 133-138. In: R. Mooi and M. Telford (eds), *Echinoderms: San Francisco*. Balkema, Rotterdam.
29. Hagdorn, H. and **Baumiller, T. K.** 1998. Distribution, morphology, and taphonomy of *Holocrinus*, the earliest post-Paleozoic crinoid, pp. 163-168. In: R. Mooi and M. Telford (eds), *Echinoderms: San Francisco*. Balkema, Rotterdam.
- 1997** -----
28. **Baumiller, T. K.** 1997. Crinoid functional morphology, pp. 45-68. In: C. Maples and J. Waters (eds): *Paleontological Society Papers 3* (Geobiology of Echinoderms), Paleontological Society.
27. Kammer, T. W., **Baumiller, T. K.** and Ausich, W. I. 1997. Species longevity as a function of niche breadth: evidence from fossil crinoids. *Geology* 25: 219-222

- 1996** -----
26. **Baumiller, T. K.** and Gaździcki, A. 1996. New crinoids from the Eocene La Meseta Formation of Seymour Island, Antarctic Peninsula. *Palaeontologia Polonica* 55: 101-116
25. **Baumiller, T. K.** and Ausich, W. I. 1996. Crinoid stalk flexibility: theoretical predictions and fossil stalk postures. *Lethaia* 29: 47-59
24. **Baumiller, T. K.** 1996. Exploring the pattern of coordinated stasis: simulations and extinction scenarios. *Palaeogeography, Palaeoclimatology, Palaeoecology* 127: 135-145
23. **Baumiller, T. K.** 1996. Boreholes in Middle Devonian blastoid *Heteroschisma* and their implications for gastropod drilling. *Palaeogeography, Palaeoclimatology, Palaeoecology* 123: 343-351
- 1995** -----
22. **Baumiller, T. K.** and Macurda, D. B., Jr. 1995. Borings in Devonian and Mississippian blastoids (Echinodermata). *Journal of Paleontology* 69: 1084-1089
21. **Baumiller, T. K.** and Hagdorn, H. 1995. Taphonomy as a guide to functional morphology of *Holocrinus*, the first post-Paleozoic crinoid. *Lethaia* 28: 221-228
20. **Baumiller, T. K.**, Llewellyn*, G., Messing, C. G. and Ausich, W. I. 1995. Taphonomy of isocrinid stalks: influence of decay and autotomy. *Palaaios* 10: 87-95
- 1994** -----
19. **Baumiller, T. K.** 1994. Patterns of dominance and extinction in the record of Paleozoic crinoids, pp. 193-198. In: B. David, A. Guille, J. P. Féral and M. Roux (eds): *Echinoderms through Time (Echinoderms Dijon)*. Balkema, Rotterdam.
18. Ausich, W. I., Kammer, T. W. and **Baumiller, T. K.** 1994. Demise of the middle Paleozoic crinoid fauna: a single extinction event or rapid faunal turnover? *Paleobiology* 20: 345-361
- 1993** -----
17. **Baumiller, T. K.** 1993. Boreholes in Devonian blastoids and their implications for boring by platyceratids. *Lethaia* 26: 41-47
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