

## CURRICULUM VITAE

### MICHAEL J. NOVACEK

#### ADDRESS

Division of Paleontology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024. Tel: (212) 769-5870, novacek@amnh.org

#### EDUCATION

A.B. University of California, Los Angeles (UCLA), 1971 (Zoology)

M.A. San Diego State University, San Diego, 1973 (Biology)

Ph.D. University of California, Berkeley, 1978 (Paleontology)

#### EXPERIENCE

Curator and Professor, Paleontology 2023-present

Senior Advisor to the President 2021-2023

Senior Vice President and Provost of Science, 1995-2021

Vice President and Provost of Science 1994-1995

Vice President and Dean of Science (1989-1994) American Museum of Natural History  
Chairman (1983-1989), Department of Vertebrate Paleontology, American Museum of Natural History

Assistant (1982-1985), Associate (1985-1989), Full (1989-) Curator, Department of Vertebrate Paleontology

Adjunct, Center for Environmental Research and Conservation, Columbia Univ., 1995-

Adjunct Professor, Dept. of Biology, City University of New York, 1987-present

Adjunct Professor, San Diego State University, 1982-

NSF National Needs Postdoctoral Fellow, Sept. 1979-Aug. 1980

Lecturer (1976-1977), Assistant (1977-1979), Associate (1979-1982) Professor, Department of Zoology, San Diego State University

#### AWARDS AND RECOGNITION

Lauderback Award, Outstanding Graduate Research, Univ. of California, Berkeley, 1976

Timeos Award, Outstanding Assistant Professor, San Diego State University, 1977-1978

Fellow, Explorer's Club, New York City, 1993.

Honorary Doctoral Degree, Long Island University, C. W. Post, May 1996.

New York Times "Notable Book of the Year": *Dinosaurs of the Flaming Cliffs* (1996);  
*Time Traveler* (2002)

Roy Chapman Andrews Distinguished Explorers Award, 2003

American Association for the Advancement of Sciences (AAAS), Fellow, 2003

American Academy of Arts and Sciences, Fellow, 2004

Lowell Thomas Medal, The Explorers Club, 2005

Honorary Doctoral Degree, Beloit College, May 2006 (commencement speaker)

Booklist "Best Science Book of 2007" *Terra: Our 100-Million-Year-Old Ecosystem and the Threats that Now Put It at Risk* (2007)

Distinguished Alumni Award (Monty Award) 2008 San Diego State University

The Kublai Khan Medal of the Mongolian Academy of Sciences, 2013, for important contributions to the development of paleontological sciences in Mongolia.

**FELLOWSHIPS AND GRANTS**

- Anne Alexander Scholarship, Univ. California, Berkeley, 1975-76.  
 Chancellor's Fellowship, Univ. California Berkeley, 1976-77.  
 NATO travel and study grant, Institute on Systematics, England, 1976.  
 Smithsonian Institute Postdoctoral Fellowship, 1977-78 (declined), 1979-1980 (declined).  
 San Diego State University Grant-in Aid for Research, 1978-80, 1979-1980.  
 National Science Foundation Travel Grant (awarded through American Society of Mammalogists), summer 1978  
 National Science Foundation National Needs Postdoctoral Fellowship, 1979-80.  
 Theodore Roosevelt Memorial Grant, "Bat Auditory Structure," 1981.  
 National Science Foundation and NATO grant award for travel to Paris symposium on "Relationships of Rodents", summer, 1983.  
 National Geographic Society "Paleontology and geochronology of Eocene vertebrate faunas, Baja, California" \$20,000. 1985-86.  
 Eppley Foundation Grant for Research "Paleontological Investigations of Tertiary Mammal Faunas in the southern Andes of Chile" \$60,000., 1986, 1987-1988.  
 National Geographic Society "An Early Tertiary Vertebrate Fauna from the central Andes of Chile", 1988-89.  
 National Science Foundation, "A Workshop for Computer Cataloguing in Vertebrate Paleontology." \$38,846. 1989-90.  
 National Geographic Society, "Paleontologic exploration of The Yemen Arab Republic", 1990 (Ian Tattersall, P. I).  
 Sloan Foundation Grant for Symposium "Mammalian Phylogeny," 1990 (with F.S. Szalay).  
 National Science Foundation, "A new Paleogene fauna from the Chilean Andes: a critical interval in South American Mammalian History" (with M. A. Norell, PI/PD, M. C. McKenna, additional PI/PD), 1991-1992.  
 National Science Foundation, "Higher level phylogeny of Chiroptera: Evidence from the postcranial musculoskeletal system of Recent and fossil bats" (Nancy Simmons, co-PI). \$152,500. 1992-1996  
 IREX (International Research and Exchanges Board), "Paleontological Exploration of Gobi Desert, Mongolia", 1992.  
 National Science Foundation, "Survey and Study of Late Cretaceous Terrestrial Vertebrates from the Gobi Desert of Mongolia" (with M.A. Norell, M.C. McKenna, J. Clark, additional PI/PDS), \$103,010. 1993-1995.  
 Eppley Foundation for Research "Paleontology Expedition to the Gobi Desert" 1995.  
 National Geographic Society. "Paleontological exploration of upper Cretaceous vertebrate bearing strata of Mongolia." \$ 40,000. 1995.  
 National Science Foundation "Cretaceous mammals from Mongolia. Implications for higher level phylogeny" (M. C. McKenna, G. Rougier, J. Wible, additional PI/PDS), \$147,206. 1996-1999.  
 Antorchas Foundation "Paleontological Expeditions in the Cretaceous and Tertiary of Patagonia, Argentina" \$110,000. 1999-2000  
 Antorchas Foundation "Paleontological Expeditions in the Cretaceous and Tertiary of Patagonia, Argentina" \$237,000. 2001-2003  
 National Science Foundation. "Collaborative Research -- Mesozoic therians from Central Asia: The basal radiation of Tribosphenic Mammals and their impact on the higher-level relationships of therian mammals. (G. Rougier and J. Wible, additional PI's). \$97,454. 2002-2005.  
 National Science Foundation. "Dinosaurs!: a large format film experience." (D. Clark, J. O'Leary, B. Silleck, additional PI's). \$1,386,587. 2003-2005.  
 HRSA. "Health Care and Other Facilities - Equipping the Institute of Comparative Genomics at the American Museum of Natural History." \$492,080. 2004-2007.  
 National Science Foundation. ATOL: "Collaborative Research: Resolving Mammalian Phylogeny with Genomic and Morphological Approaches." (J. Meng, J. Flynn, and N. Simmons Co-PI's). \$3,000,000, with \$861,588 directly to AMNH 2006-2011.

National Science Foundation. "Collaborative Research: Stratigraphy and geochronology of the Paleogene Naran Bulak and Gashato formations, Mongolia: A new geological framework for key Asian fossil mammals." NSF-EAR Sedimentary Geo and Paleobiology. \$143,055. 2025-2028.

### PROFESSIONAL SERVICE

Member of Council, Society of Systematic Zoology (Class of 1984), Willi Hennig Society (1985-88)  
 Chairman, Government Liaison Committee on Paleontological Resources, Society of Vertebrate Paleontology, 1986-87  
 Chairman, Computerization Committee, Society of Vertebrate Paleontology, 1988-present  
 National Science Foundation (NSF) Panel Member, Systematic Biology Program, 1986-1990; Member, Advisory Committee to Biological Sciences, 1992 - 1995  
 President, Society of Systematic Zoology, 1990-1992  
 Member, Yale University Biospherics Advisory Committee, 1993 -1998  
 Elected to Board of Directors, American Association for the Advancement of Science (AAAS), 1995 - 1999  
 Member Beirat Advisory Board, Von Humboldt Museum, Berlin 1999-2002  
 Member, Board of Directors, Academic Medical Development Corporation (AmDeC), 1999-2013  
 Member, Smithsonian Council, 2000 -  
 Member, Harvard University Visiting Committee (Organismic and Evolutionary Biology) 2001-2008  
 Advisory Committee Member, National Academy of Sciences, National Research Council, Board of Life Sciences, 2002.  
 Chair, Evolutionary Biology Advisory Committee, NASA Fundamental Space Biology, 2003.  
 Member, Visiting Committee, California Academy of Sciences, San Francisco, 2006  
 Committee of Visitors, National Science Foundation, 2009  
 Member, Science Advisory Committee, National Park Service 2013-2017

### SELECTED INVITED PRESENTATIONS

"*Cranial Evidence for Rodent Affinities*" NATO workshop, Paris, France, 1984  
 "*Mammalian Phylogeny: The Molecular-Morphological Synthesis*" Nobel Foundation Symposium, "The Hierarchy of Life," Karlskoga, Sweden, 1988  
 "*Fossils and Phylogenetic Reconstruction*" Harvard University, 1988  
 "*Natural Science, Systematics, and the Biodiversity Crisis*, "National Convention of High School Science Teachers, Houston, Texas, 1990  
 "*Scholarship in Natural History Museums.*" Royal Society, London, 1992.  
 "*Molecules, Morphology, Paleontology and the Deep Structure of Phylogeny*" Current Views of the History of Organisms. Kanagawa Science Park, Kawasaki, Japan, 1993  
 "*Dinosaurs and Flaming Cliffs,*" Banquet Speech for Society for the Study of Evolution, American Society of Naturalists, and Society of Systematic Biologists' Annual Meeting, 1993  
 "*Fossils of the Gobi Desert*". Goddard Space Institute, Maryland. November, 1993.  
 "*Vertebrate Evolution in the Cretaceous of Central Asia*". "*Mammalian Phylogeny and Evolution*" Super course, University of Washington, Seattle, Jan. 1994.  
 "*Dinosaurs of the Gobi*" Roy C. Swan Lecture, Cornell Univ. Medical School, May, 1994.  
 "*Placental Mammal Radiations*" Geological Society of America Symposium, Seattle Wash., Oct. 1994.  
 "*Evolution - from Gobi dinosaurs to DNA,*" Capital Lecture, Carnegie Inst. of Washington, October, 1995.  
 "*Mammalian Phylogeny*" Symposium on the Hierarchy of Life. Univ. Arizona, Oct., 1996  
 "*Dinosaurs of the Flaming Cliffs*" Los Angeles County Museum of Natural History; California Academy of Sciences; Burke Museum, University of Washington; National Geographic Society; Field Museum of Natural History; Sigma Xi; Smithsonian Institution; Senior Counsel Retreat, Morgan Stanley - Dean Witter, 1996-97.  
 "*100 Million Years of Land Vertebrate Evolution: The Cretaceous-early Tertiary Transition.*" Keynote Address. Annual Symposium, Missouri Botanical Garden. October, 1997.

- "Mammal Evolution" Harvard University, March,1998.
- "Cretaceous-Early Tertiary Radiations of Mammals -- Conflicting Evidence" Northwestern University, February,1999.
- "Cretaceous Extinction and Mammalian Radiations" Symposium "The Development of Life" Swedish Foundation for Research. Upsala, March,1999.
- "Calibration of Divergence Dates During the Cretaceous-Tertiary Transition; Conflicts Between Fossil-Based and Molecular-Based Estimates." Symposium, "Molecular Clocks". Annual Meetings Society Systematic Biologists, Madison, Wisconsin, June 1999.
- "Paleontological Exploration of the Gobi." R. W. Johnson Annual Lecture, Nov. 1999
- "Dinosaurs of the Flaming Cliffs" Farnum Lecture, Princeton University, Nov. 2000.
- "The Gobi Cretaceous and Mammalian Phylogeny" Johns Hopkins Univ., Apr.,2001.
- "Extinction- Past, Present, and Future". Yale University Colloquium, Center for Biospherics, Oct. 2001 Ecoforum, Eminent Biologists Lectures, Pittsburgh, Pennsylvania, Feb.,2002.
- "Time Traveler: In search of Dinosaurs and Ancient Mammals from Montana to Mongolia." Distinguished Scholar Lectures, Rochester Museum and Science Center, Jan. 2002, American Museum of Natural History, Feb.,2002, Colloquium Series, SUNY, New Paltz, University of Pittsburgh and Carnegie Museum Lecture Series, Apr. 2002, Santa Barbara Museum of Natural History, Los Angeles County Museum of Natural History, Smithsonian Author Lecture, Apr. 2002; 92<sup>nd</sup> Street Y, New York, Dec. 2002; Vassar Brothers Institute, New York, Jan. 2003; Cleveland Natural History Museum, Ohio, May 2003, Library of Congress. Washington D. C., 2005
- "Dinosaurs of the Flaming Cliffs: Eighty-Two Years of Fossil Hunting in Mongolia's Gobi Desert." Roy Chapman Andrews Distinguished Explorer's Award, Acceptance Lecture, Beloit College, Beloit Wisconsin, Feb. 2003.
- "The End of the Age of Dinosaurs in Asia: New Discoveries, New Questions" Burpee Museum, Illinois, Feb.2003.
- "Mammalian Phylogeny: Is the Tree still Shaking?", Keynote Address for Conference to honor William A. Clemens' Contributions to Mammalian Evolution, Berkeley, California, April, 003
- "Evolutionary Biological Research in Fundamental Space Biology at NASA – Some Recommendations." NASA/AMES. Palo Alto, California, April,2003.
- "Fossils, genes, and mammalian phylogeny." Univ. of Minnesota, St. Paul, Minnesota, October,2003.
- "Restoring a Lost World: To be a Mammal in the Age of Dinosaurs" 3<sup>rd</sup> Annual Utah Symposium on Science and Literature. "Some Reassembly Required: Restoration and Human Production, in Images, Words, and Bones." University of Utah, Salt Lake City. March,2005.
- Commencement Address, Beloit College, May,2006.
- "Terra: Our 100-Million Ecosystem – and the Threats That Now Put it at Risk." Field Museum, Chicago Illinois, Oct. 2007; American Museum of Natural History, New York, N. Y., Nov. 2007; Secret Science Club, N. Y., Nov. 2007; 92<sup>nd</sup> St. Y., N. Y., Jan. 2007; Darwin Day Lecture, Univ. Wisconsin, Whitewater, Wisconsin, Feb,2008.
- "AtoL Mammals" NSF Meeting, New Orleans, Louisiana, Mar,2008
- "Biodiversity Past, Present, and Future: From the Island of Madagascar to Island Earth" Yale University, New Haven, Conn., April,2008.
- "Mammal Phylogeny" University of Louisville, October,2009.
- "Natural History Museums in the Environmental Century" Harvard Peabody Museum, November,2009.
- "Exploration and the Architecture of Life" Science Café, American Museum of Natural History Fall, 2012.
- "The Evolution and Relationships of Placental Mammals" International Conference on Mammalian Evolution, Rio de Janeiro, Brazil, 2013.
- "150 years at the American Museum of Natural History" Annual Teacher's Conference, American Museum of Natural History, October 2019.
- "Thirty Years of Fossil Hunting in Mongolia's Gobi Desert" Tokyo Natural History Museum, Dec. 2019; University of Bari, Italy, December 2022.
- "From the Age of Dinosaurs to the Age of Mammals in the Gobi Desert of Mongolia" Yale Earth Sciences Spring Colloquium, Yale University, April 28, 2025.

**EDITED VOLUMES AND BOOKS**

- "Phylogeny and Rates of Evolution" *Systematic Zoology*, 1982, December issue.
- "Extinction and Phylogeny" 252 p. *Columbia University Press*, 1992 (co-editor, Q. D. Wheeler)
- "Mammal Phylogeny" 1993. 601 p. (co-editor with F. S. Szalay and M. C. McKenna) Springer Verlag.
- "Dinosaurs of the Flaming Cliffs" 367 p. *Anchor/Doubleday*, 1996. (N. Y. Times selection "Notable books of 1996")
- "The Biodiversity Crisis: Losing What Counts" 224p. *The American Museum of Natural History and The New Press, New York*. 2001. (editor)
- "Time Traveler: In Search of Dinosaurs and Ancient Mammals from Montana to Mongolia" 2002. *Farrar, Straus, & Giroux*. 368 pp. (N. Y. Times selection "Notable books of 2002")
- "Terra: Our 100-Million-Year-Old Ecosystem – and the Threats That Now Put it at Risk." 2007. *Farrar, Straus & Giroux*, 428 p.

**SCIENTIFIC ARTICLES (not including abstracts)**

- 1976 Novacek, M. J., and L. G. Marshall. Early biogeographic history of ostariophysan fishes. *Copeia*: 1:1-12.
- 1976 Novacek, M. J. Early Tertiary vertebrate faunas of the Vieja Group, Trans-Pecos Texas: Insectivora. *Texas Mem. Mus. Publ., Pearce-Sellard Ser.* no. 16:1-18.
- 1976 Novacek, M. J. Insectivora and Proteutheria of the later Eocene (Uintan) of San Diego County, California. *Nat. Hist. Mus. L.A. County, Contr. Sci.* 283:1-52.
- 1977 Novacek, M. J. A review of Paleocene and Eocene Leptictidae (Proteutheria: Mammalia) from North America. *PaleoBios* 24:1-42.
- 1977 Novacek, M. J., and W. A. Clemens. Aspects of intrageneric variation and evolution of *Mesodma* (Multituberculata). *Jour. Paleo.* 51:701-718.
- 1977 Novacek, M. J. Aspects of the problem of variation, origin and evolution of the eutherian auditory bulla. *Mam. Rev.* 7:131-150.
- 1979 Novacek, M. J., and J. A. Lillegraven. Terrestrial vertebrates from the later Eocene (Uintan) of San Diego County, California: A Conspectus. In P. L. Abbott (ed.), Eocene depositional systems. *Soc. Econ. Paleont. & Mineral., Pacific Section, Spec. Publ.*, pp. 69-79.
- 1979 Novacek, M. J. Evolution and relationships of the Leptictidae (Eutheria: Mammalia). Ph.D. dissertation, 1978. *Univ. Michigan Dissertation Abstracts Internatl.*
- 1980 Novacek, M. J. Phylogenetic analysis of the chiropteran auditory region. In D. E. Wilson and A. L. Gardner (eds.), Proc. Fifth Internatl. Bat Res. Conf. *Texas Tech Press*, Lubbock, Texas, pp. 317-330.
- 1980 Novacek, M. J. Cranioskeletal features in tupaiids and selected Eutheria as phylogenetic evidence. In W. P. Luckett (ed.), Comparative biology and evolutionary relationships of tree shrews, pp. 35-93. New York, *Plenum Press*.

- 1980 Novacek, M. J. *Crypholestes*, a new name for the early Tertiary insectivore, *Cryptolestes*, Novacek 1976. *Jour. Paleo.* 54(4).
- 1981 Lawson, D. A., and M. J. Novacek. Structure and change in three Eocene invertebrate (primarily molluscan) communities from nearshore marine environments. In A. Boucot and W. B. N. Berry (eds.), *Communities of the Past. Proc. Symposium, Paleo. Convention of N.A., II. Stroudsburg, Dowden, Hutchinson, and Ross.*
- 1982 Novacek, M. J. Information for molecular studies from anatomical and fossil evidence of higher eutherian phylogeny. In M. Goodman (ed.), *Macromolecular sequences in systematic and evolutionary biology*, pp. 3-41. *New York, Plenum Press.*
- 1982 Novacek, M. J. *Diacodon alticuspis*, an erinaceomorph insectivoran from the early Eocene of northern New Mexico. *Univ. Wyoming Contr. Geol.* 20(2):135-139.
- 1982 Novacek, M. J. The brain of *Leptictis dakotensis*, an Oligocene leptictid (Eutheria: Mammalia) from North America. *Jour. Paleo.* 56(5): 1177-1186.
- 1982 Novacek, M. J., and M. Norell. Fossils, phylogeny, and taxonomic rates of evolution. *Syst. Zool.* 31(4):369-378.
- 1983 Novacek, M. J., M. C. McKenna, N. A. Neff, R. L. Cifelli. Evidence from earliest known erinaceomorph basicranium that insectivorans and primates are not related. *Nature* 306:683-684.
- 1984 Flynn, J. J., and M. J. Novacek. Early Eocene vertebrates from Baja California: Evidence for intra-continental age-correlations. *Science*, 224:151-153.
- 1984 Novacek, M. J. Evolutionary stasis in the elephant-shrew *Rhynchocyon*. In N. Eldredge and S. M. Stanley (eds.), *Living fossils*, pp. 4-22. *Springer Verlag.*
- 1985 Novacek, M. J. Evidence for echolocation in the oldest known bats. *Nature*, 315(6015):140-141.
- 1985 Novacek, M. J., T. M. Bown, D. Schankler. On the classification of the early Tertiary Erinaceomorpha (Insectivora, Mammalia). *Amer. Mus. Novitates* 2822:1-22.
- 1985 Novacek, M. J. The Sespedectinae, a new subfamily of hedgehog-like insectivores. *Amer. Mus. Novitates* 2833:1-24.
- 1985 Eldredge, N., and M. J. Novacek. Systematics and paleobiology. *Paleobiol.* 11(1):65-74.
- 1985 Novacek, M. J. Cranial evidence for rodent affinities. In W. P. Luckett and J.-L. Hartenberger (eds.), *Evolutionary relationships among rodents. A multi-disciplinary analysis. NATO ASI series*, 92:59-81. *New York, Plenum Press.*
- 1985 Novacek, M. J. Comparative morphology of the bat auditory region. In Dunker and Fleischer (eds.), *Proc. 1st. internatl. symposium in vertebrate morphology. Fortschr. Zool.* 30:149-151.
- 1986 Novacek, M. J. The skull of leptictid insectivorans and the higher-level classification of eutherian mammals. *Bull. Amer. Mus. Nat. Hist.* 183(1):1-112.
- 1986 Novacek, M. J. The primitive eutherian dental formula. *Jour. Vert. Paleo.* 6(2):191-195.
- 1986 Novacek, M. J., and A. R. Wyss. Higher-level relationships of the Recent eutherian orders: morphological evidence. *Cladistics* 2:257-287.

- 1986 Novacek, M. J., and A. R. Wyss. Origin and transformation of the mammalian stapes. In K. Flanagan and J. L. Lillegraven (eds.), *Vertebrates, phylogeny and philosophy*. G. G. Simpson Mem. Vol., *Univ. Wyoming Contr. Geol.*, special paper 3:35-53.
- 1987 Novacek, M. J. Characters and cladograms: Examples from zoological systematics. In H. M. Hoenigswald and L. F. Wiener (eds.), *Biological metaphor and cladistic classification*. *Univ. Chicago Press*, pp. 181-192.
- 1987 Novacek, M. J., and A. R. Wyss. Selected features of the desmostylian skeleton and their phylogenetic implications. *Amer. Mus. Novitates* 2870:1-8.
- 1987 Novacek, M. J. Auditory features and affinities of the Eocene bats *Icaronycteris* and *Palaeochiropteryx* (Microchiroptera, incertae sedis). *Amer. Mus. Novitates* 2877:1-18.
- 1987 Novacek, M. J., J. J. Flynn, I. Ferrusquia-Villafranca, and R. M. Cipelletti. An early Eocene (Wasatchian) mammal fauna from the Baja California Peninsula. *Nat. Geogr. Soc. Res. Jour.* 3:376-388.
- 1987 Wyss, A. R., M. J. Novacek, and M. C. McKenna. Amino acid sequences versus morphological data and the interordinal relationships of mammals. *Molec. Biol. & Evol.* 4:99-116.
- 1988 Novacek, M. J., A. R. Wyss, and M. C. McKenna. The major groups of eutherian mammals. In M. J. Benton (ed.), *Phylogeny of the tetrapods*, vol. 2, pp. 31-71. *Oxford Univ. Press*.
- 1988 Wible, J. R., and M. J. Novacek. Cranial evidence for the monophyletic origin of bats. *Amer. Mus. Novitates* 2911:1-19.
- 1988 MacPhee, R. D. E., M. J. Novacek, and G. Storch. Basicranial morphology of Early Tertiary erinaceomorphs and the origin of primates. *Amer. Mus. Novitates* 2921:1-42.
- 1989 Novacek, M. J. Morphology, paleontology, and the higher clades of mammals. In H. H. Genoways (ed.), *Current Mammalogy*, vol. 2, pp. 507-543. *Plenum Press*, New York.
- 1989 Flynn, J. J., R. M. Cipelletti, and M. J. Novacek. Chronology of the early Eocene marine and terrestrial strata, Baja California, Mexico. *Geol. Soc. Amer. Bull.* 101: 1182-1196.
- 1989 Novacek, M. J. Higher mammalian phylogeny: The morphological-molecular synthesis. In B. Fernholm, K. Bremer, H. Jornvall (eds.), *Nobel Symposium: Hierarchy of Life*, pp. 421-435. *Elsevier Science Publ.*
- 1989 Novacek, M. J., and M. A. Norell. Nuclear DNA content in bats and other organisms: implications and unanswered questions. *Trends in Ecol. and Evol. (TREE)*, 4: 285-286.
- 1989 Tattersall, I., M. J. Novacek, and M. J. Grolier. Report on a preliminary vertebrate paleontological survey of the Yemen Arab Republic, May 30-July 14, 1988. *Nat. Geogr. Res.* 1-45.
- 1990 Wyss, A. R., M. A. Norell, J. J. Flynn, M. J. Novacek, R. Charrier, M. C. McKenna, C. R. Swisher, D. Frassinetti, P. Salinas, and Meng Jin. A new Early Tertiary mammal fauna from Central Chile: Implications for Andean Tectonics. *Jour. Vert. Paleont.* 10(4):518-522.
- 1991 Baker, R. J., M. J. Novacek, N. B. Simmons. On the monophyly of bats. *Syst. Zool.* 40(2): 216-231.
- 1991 Simmons, N. B., M. J. Novacek, and R. J. Baker. Approaches, methods, and the future of the chiropteran monophyly controversy: a reply to J. D. Pettigrew. *Syst. Zool.* 40(2): 239-243.

- 1991 Novacek, M. J., I. Ferrusquia-Villafranca, J. J. Flynn, A. R. Wyss, and M. A. Norell. Wasatchian (Early Eocene) and other vertebrates from Baja California, Mexico: the Lomas Las Tetras de Cabra fauna. *Bull. Amer. Mus. Nat. Hist.* 208:1-88.
- 1991 Novacek, M. J. Aspects of the morphology of the cochlea in microchiropteran bats: an investigation of character transformation. *Bull. Amer. Mus. Nat. Hist.* 206: 84-100.
- 1991 Novacek, M. J. All tree histograms and the evaluation of cladistic hypotheses: some ambiguities. *Cladistics* 7: 345-349.
- 1991 Charrier, R., A. R. Wyss, M. A. Norell, J. J. Flynn, M. J. Novacek, M. C. McKenna, C. C. Swisher, D. Frassinetti, P. Salinas, and Meng Jin. Hallazgo de Mamíferos del Terciario Inferior en el Sector de Termas del Flaco, Cordillera Principal, Chile Central: Implicaciones, Paleontológicas, Stratigráficas, y Tectónicas. Symp. Tertiary of Chile, Dec. 1990; Concepción.
- 1992 Novacek, M. J. Mammalian phylogeny: shaking the tree. *Nature* 356: 121-125.
- 1992 Norell, M. A., and M. J. Novacek. The fossil record and evolution: Comparing cladistics and paleontological evidence for vertebrate history. *Science* 255: 1690-1693.
- 1992 Novacek, M. J. Fossils as critical data for phylogeny. In M. J. Novacek and Q. D. Wheeler (eds.), *Extinction and Phylogeny*, pp. 46-88. *Columbia Univ. Press*, New York.
- 1992 Novacek, M. J., and Q. D. Wheeler. Extinct taxa -- accounting for 99.9990...% of the earth's biota. In M. J. Novacek and Q. D. Wheeler (eds.), *Extinction and Phylogeny*, pp. 1-16. *Columbia Univ. Press*, New York.
- 1992 Novacek, M. J. Fossils, topologies, missing data, and higher-level phylogeny of eutherian mammals. *Syst. Biol.* 41(1): 58-73.
- 1992 Norell, M. A., M. C. McKenna, and M. J. Novacek. *Estesia mongoliensis*, a new fossil varanoid from the Late Cretaceous Barun Goyot Formation of Mongolia. *Amer. Mus. Novitates* 3045: 1-24.
- 1992 Norell, M. A., and M. J. Novacek. Congruence between superpositional and phylogenetic patterns: Comparing cladistic patterns with fossil records. *Cladistics* 8: 319-337.
- 1993 MacPhee, R. D. E., and M. J. Novacek. Definition and relationships of Lipotyphla. In F. S. Szalay, M. J. Novacek, M. C. McKenna (eds.), *Mammal Phylogeny*, pp. 13-31. *Springer Verlag*, New York.
- 1993 Cifelli, R.L., F.S. Szalay, M.J. Novacek and M. C. McKenna. Theria of metatherian-eutherian grade and the origin of marsupials. pp. 205. *Springer-Verlag*, New York.
- 1993 Novacek, M. J. Patterns of diversity in the mammalian skull. In J. Hanken and B. K. Hall (eds.), *The Skull*, vol. 2, pp.438-545. *Univ. Chicago Press*.
- 1993 Novacek, M. J. Reflections on higher mammalian phylogenetics. *Jour. Mam. Evol.* 1(1): 3-30.
- 1993 Novacek, M. J. Mammalian phylogeny: Morphology and molecules. *Trends in Ecol. and Evol (TREE)*. 8(9): 339-340.

- 1993 Wyss, A. R., M. J. Novacek, et al. South America's earliest rodent and recognition of a new interval of mammalian evolution. *Nature* 365: 434-437
- 1994 Novacek, M. J. Morphological and molecular inroads to phylogeny. In L. Grande and O. Rieppel (eds.), *Interpreting the Hierarchy of Life: From Systematic Patterns to Evolutionary Process Theories*, pp. 85-131. *Academic Press*, San Diego.
- 1994 Hand, S., M. J. Novacek, H. Godthelp, M. Archer. First Eocene bat from Australia. *Journ. Vert. Paleo.* 14(3): 375-378.
- 1994 Wyss, A. R., J. J. Flynn, M. A. Norell, C. C. Swisher, M. J. Novacek, M. C. McKenna, R. Charrier. Paleogene mammals from the Andes of Central Chile: a preliminary taxonomic biostratigraphic and geochronologic assessment. *Amer. Mus. Novitates* 3098: 1-31.
- 1994 Novacek, M.J. The radiation of placental mammals. In D.R. Prothero and R. M. Schoch (conveners) and R.S. Spencer (series ed.), *Major Features of Vertebrate Evolution. Short Courses in Paleontology*, 7, pp. 220 - 237. *The Paleontological Society*.
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