



Luke Holbrook

Professor
Biological Sciences

holbrook@rowan.edu

<http://users.rowan.edu/~holbrook>

Education:

BS (Biology), Fordham University

MS (Biology), University of Massachusetts

PhD (Biology), University of Massachusetts

Postdoctoral (Anatomy), New York College of Osteopathic Medicine

Research Expertise:

Phylogeny and evolution of mammals | Vertebrate morphology | Vertebrate paleontology

I study the phylogeny and diversification of mammals. I use data from fossils, morphology, and DNA sequences to determine relationships among different mammal lineages, and to estimate the timing of when different groups split from one another.

Member of:

Society of Vertebrate Paleontology

Paleontological Society

Society of Systematic Biologists

Society for the Study of Mammalian Evolution

Willi Hennig Society

Society of Integrative and Comparative Biology

Recent Publications:

Rose KD, Holbrook LT, Lockett WP (2017) Deciduous premolars of Eocene Equidae and their phylogenetic significance. *Histor Biol*. DOI: 10.1080/08912963.2017.1291637 Epub ahead of print.

Jones KE, Holbrook LT (2016) The evolution of lateral accessory articulations in the lumbar region of perissodactyls. *J Vert Paleontol*. 36 DOI: 10.1080/02724634.2016.1224892 Epub ahead of print.

Bai B, Meng J, Wang Y-Q, Wang H, Holbrook LT (2017) Osteology of the Middle Eocene ceratomorph *Hyrachyus modestus* (Mammalia, Perissodactyla). *Bull Amer Mus Natur Hist*. 413:1-68.

Holbrook LT (2015) The identity and homology of the postprotocrista and its role in molarization of upper premolars of Perissodactyla (Mammalia). *J Mamm Evol*. 22:259-269.

Rose KD, Holbrook LT, Rana RS, Kumar K, Jones KE, Ahrens HE, Missiaen P, Sahni A, Smith T (2014) Early Eocene fossils suggest that the mammalian order Perissodactyla originated in India. *Nat Commun*. 5:5570.

Holbrook, LT (2014) On the skull of *Radinskya* (Mammalia, ?Phenacoloophidae) and its phylogenetic position. *J Vert Paleontol*. 34:1203-1215.