Curriculum Vitae
Jonathan Lee Dunnum
2026

Division of Mammals
Museum of Southwestern Biology
University of New Mexico
Albuquerque, NM 87131

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Personal:

Born: 12/06/67, Married (Suzy Goetsch), 3 children (Somiya [27 yrs], Kira [24 yrs], Quinn [16 yrs.]).

Education:

- Ph.D. - Zoology, Minor: Museum Science, 2009, Texas Tech University, Lubbock, Texas.
  Dissertation: Phylogeny, evolution, and systematics within the family Caviidae (Mammalia: Rodentia).
- M.S. - Biology, 2003, University of New Mexico, Albuquerque, New Mexico.
  Thesis: Systematics of Bolivian *Cavia*, with biogeographic notes on the genus.
- B.S. - Biology, 1993, University of New Mexico, Albuquerque, New Mexico.

Professional Experience:

Dec 2023-Nov 2026. *Research Assistant Professor* (Letter of Academic Title), Department of Biology, University of New Mexico

2006 - Present. *Senior Collection Manager* – Division of Mammals, Museum of Southwestern Biology (MSB), University of New Mexico.

- Oversee the 2nd largest and fastest growing mammalian research collection in the world (>350,000 specimens).
- Train students in field and museum-based mammal/parasite/pathogen sampling and archiving.
- Coordinate fieldwork originating in the MSB Division of Mammals.
- Facilitate specimen-based research globally.
- Provide outreach and service to federal/state agencies, K-12 schools, community at large.

2003 - 2006. *Teaching Assistant/Research Assistant*, Department of Biological Sciences and Natural Sciences Research Laboratory, Museum of Texas Tech University.

1994 - 2003. *Field Research Associate* – Department of Biology, University of New Mexico. Mammal/Disease Ecology. "Longitudinal Studies of Rodent Reservoirs of Hantaviruses in the Southwestern United States". T.L. Yates PI.

- Directed all field and museum operations
- Supervised 5 Field Research Associates employed by the project
- Trained > 50 NM Department of Health workers, Indian Health Service personnel, UNM Research Technicians, undergraduate and graduate students.
- Managed multi-million dollar Centers for Disease Control and Prevention (CDC) funded project for over a decade as staff supervisor
- National Science Foundation Nifty 50 - #26 Hantavirus Identification (https://www.nsf.gov/about/history/nifty50/hantavirus.jsp)

ORCID ID: 0000-0001-7868-3719

Google Scholar profile:
https://scholar.google.com/citations?user=7O5fxgYAAAAJ&hl=en

Patronym: *Eimeria dunnumi* Tinnin, Jensen, Batsaikhan, Ganzorig, and Gardner 2012
Tinnin et al. 2012. New species of *Eimeria* (Apicomplexa: Eimeriidae) from *Ochotona hyperborea* and *Ochotona pallasi* (Lagomorpha, Ochotonidae) in Mongolia. Erforsch. biol. Ress. Mongolei (Halle/Saale) 2012 (12): 125–134.

Museum Collection Activities:

- Manager of world-class mammal collection (>350,000 specimens). Tripled collection size during my tenure; moving from 9th largest in US to 2nd largest worldwide and largest academic collection (unprecedented).
- Managed > $10,000,000 in projects originating in the MSB DOM.
- Coordinated mammal/parasite/pathogen survey and inventory expeditions on worldwide scale.
    - >100 expeditions throughout United States, Canada, Mexico, Central and South America, and Mongolia.
- Manage all compliance documents for the DOM
    - State, federal collecting permits
    - Centers for Disease Control and Prevention Etiologic agents
    - USFWS and USDA import and export permits--global
    - UNM Institutional Animal Care and Use (IACUC) protocols
- Training: > 350 undergraduate and graduate students in mammal sampling, museum voucher specimen preparation and natural history collection curation and databasing methods.
- Outreach: Over 300 tours/presentations to professionals, public, and student groups (K-12, undergraduate, graduate) on value, use, and new directions of natural history research collection research and education.
- Annual DOM activity (average over last 5 yr - includes Covid-19 impacted yrs):
    - 5,000 specimens added per year
    - 75 loans of ca. 2,900 specimens per year
    - Ca. 200 visitors hosted per year
    - 175 publications utilized DOM specimens or data per year
- Manage Federal and State agency collaborative projects, contracts, and MOUs with:
    - US Geological Survey
    - US Fish & Wildlife Service
    - Bureau of Land Management
    - Centers for Disease Control and Prevention
    - US Forest Service
    - Bureau of Indian Affairs
    - NM Department of Health
    - NM State Lands Office
    - NM Department of Cultural Affairs
    - US Navy
    - Alaska Department of Fish and Game
- Major natural history collections that were orphaned and incorporated into DOM:
    - University of Illinois Museum of Natural History Collection - 32,750 specimens
    - U.S. Geological Survey Collection - 30,000 specimens
    - NM Museum of Natural History & Science - 6,000 specimens (+3,500 frozen tissues)

- University of Nevada-Las Vegas and Nevada State Museum Collection 7,000 specimens
- Robert L. Rausch collection - >4,000 specimens

Supervision:

Staff Curatorial Associate, Adrienne Raniszewski (soft money)
Graduate student GA/RAs – 2-4 annually
Undergraduate student technicians – 5-7 annually
Student and outside volunteers – ca. 30 annually

Professional Memberships:

American Society of Mammalogists (ASM), 1991-present
Society for the Preservation of Natural History Collections (2021- current)
Southwestern Association of Naturalists (past member)
Texas Society of Mammalogists (past member)

Committee service:

ASM Systematic Collections Committee, 2010-present
ASM Latin American Awards Committee, 2015-present
Institutional Animal Care and Use Committee, University of New Mexico 2018-2025
Museum Council, University of New Mexico, 2021-present
Editorial Board, Museum of Texas Tech University, Occasional Papers and Special Publications – 2021-present
Board of Directors, American Center for Mongolian Studies (2024-present)

National/International Working Groups/Task Forces:

- Arctos Database Working group, 2009-present
- NEON Scientific Research Collections Technical Working Group, 2013-2018
- PICANTE Pathogen Informatics Center: Analyses Networking, Translation, & Education
- COVID-19 / Natural History Collection and Emerging Disease Task Forces
  - ViralMuse Task Force (founding member), 2020-present
  - Consortium of European Taxonomic Facilities – Digital Transformation of Natural Science Collections (CETAF – DISSCO), Preservation of viral evidence working group, 2020-present
  - Museums and Emerging Pathogens in the Americas (MEPA), 2020-present

Chairpersonships:

Chair – ASM Systematic Collections Committee, 2019-present
Co-Chair, Arctos Database Working group, 2016-2017

Chairperson Activities for ASM Systematic Collection Committee:

I. National/International Museum Collection Accreditations:

1. *Angelo State Natural History Collection, Angelo State University* (2020)
   Reaccreditation of mammal collection and accreditation of genetic resources collection
2. *Museo de Zoología, Pontificia Universidad Católica del Ecuador* (2020)
   Accreditation of mammal collection
3. *Museum of Southwestern Biology, University of New Mexico* (2020)
   Accreditation of genetic resources collection
4. *Natural Science Research Laboratory, Museum of Texas Tech University* (2020)

Accreditation of genetic resources collection

5. *Royal Ontario Museum* (2020)
   Accreditation of genetic resources collection
6. *Northern Michigan University* (2024)
   Accreditation of mammal collection and genetic resources collection
7. *University of Oklahoma, Sam Noble Oklahoma Museum of Natural History* (in process)
   Accreditation of mammal collection and genetic resources collection
8. *Arizona State University Natural History Collections* (not accredited)
   Accreditation of mammal collection and genetic resources collection
9. *Arizona Museum of Natural History, University of Arizona* (not reaccredited)
   Accreditation of mammal collection and genetic resources collection
10. *Colección Regional Durango*, Durango, Mexico (2024)
    Accreditation of mammal collection and genetic resources collection
11. *NEON Biorepository, ASU Biocollections* (not accredited)
    Accreditation of mammal collection and genetic resources collection
12. *University of Colorado Natural History Museum* (2024)
    Accreditation of mammal collection and genetic resources collection
13. *Utah Museum Natural History, University of Utah* (2024)
    Accreditation of mammal collection and genetic resources collection
14. *Northern Michigan University* (2024)
    Accreditation of mammal collection

II. **ASM subcommittee charged with developing ASM Standards for Genetic Resource Collections:**
Phillips et al., 2019. *Curatorial guidelines and standards of the American Society of Mammalogists for collections of genetic resources*. Journal of Mammalogy 100, no. 5 (2019): 1690-1694. gyz111, https://doi.org/10.1093/jmammal/gyz111.

III. **Led decadal survey of the mammal collections of the Western Hemisphere.**
Dunnum et al., 2018. *Mammal collections of the Western Hemisphere: a survey and directory of collections.* Journal of Mammalogy 99(6): 1307-1322.

Graduate Committee Member:

Samantha Bonawitz (2026). Museum Studies, University of New Mexico.
Destiny Gonzalez. M.S. (2025). Museum Studies, University of New Mexico.
Nikolitsa Wooten. M.S.2024. Museum Studies. MoMaP: Mongolian Mammals and Parasites.
Dianne Peterson, M.S. 2021. Biology, University of New Mexico.
Monica Naranjo. M.S. 2020. Museum Studies, University of New Mexico.
Kaylen Jones. M.S. 2018. Museum Studies, University of New Mexico.
Diana Krejsa. M.S. 2017. Biology, University of New Mexico.

Journal Reviewer:

Editorial Board, Occasional Papers and Special Publications of the Museum, Texas Tech University Natural Science Research Laboratory
Co-editor – (Christiane Denys, Boris Kryštufek**)**. *Mammalia,* volume 72 special series "On the history of European Mammalogy". 2012

AMNH Novitates
Biological Journal of the Linnean Society
Checklist
Ecosphere
Genetics and Molecular Biology
Global Ecology and Conservation
Journal of Biogeography
Journal of Experimental Zoology Part A: Comparative Experimental Biology
Journal of Mammalogy
Journal of Wildlife Disease
Journal of Zoo and Wildlife Medicine
Mammalia
Occasional Papers- Museum of Southwestern Biology
Occasional Papers- Museum of Texas Tech University
OneHealth
One Health & Implementation Research
Mastozoologia Neotropical
PLOS One
Southwestern Naturalist
Vector-borne Zoonotic Diseases

Teaching:

Field + Genomics Workshop – Museums and Emerging Pathogens in the Americas. Otongachi, Ecuador. Oct-Nov 2024.
BIOL 402/502 – Mammal Scientific Preparation, Spring 2023
BIOL 402/502 – Mammal Scientific Preparation, Spring 2022
MSST 586 - Practicum: Museum Methods. Fall 2019
BIOL 419/519 – Nat Hist Curation. Spring 2018. 1 lecture
Biol 402 – Mammal Scientific Preparation, Spring 2017
BIOL 461L/561L – Introduction to Tropical Biology. Spring 2016
BIOL 502-037 – Mammal Scientific Preparation, Spring 2015
BIOL 461L/561L – Introduction to Tropical Biology. Spring 2014
BIOL 402/502 – Mammalian museum Specimen preparation. Spring 2014
Biodiversidad, ecologia,y conservacion de los roedores neotropicales. Short course at Museo de Historia Natural, Universidad Nacional de San Agustin, Arequipa, Peru. July 2013.
SEIS - Mammals of NM and the Value of Nat Hist Coll. Summer 2012**.**
BIOL 419/519 – Nat Hist curation/techniques. Spring 2012. 4 lectures.
BIOL 402/502 - Panama Diversity Field Methods. Spring 2012.
4th East Asian Long-Term Ecological Research Network Meeting in Hovsgol, Mongolia. Invited participant. Provided training workshop and presentation for Mongolian students on Long-term Monitoring of Small Mammals and Zoonotic Disease agents. Summer 2001

Grants/Contracts as PI or CoPI: Total $3,176,145

Award No.	Project Title	Role	Sponsor	Amount	Dates
A00-0279-003	Improved Housing & Maintenance of *C. l. baileyi* in the MSB DOM	Lead PI	USFWS	$2,000	2005-06
A00-0279-004	Improved Housing & Maintenance of *C. l. baileyi* in the MSB DOM	Lead PI	USFWS	$3,000	2005-06
A00-0279-006	Improved Housing & Maintenance of *C. l. baileyi* in the MSB DOM	Lead PI	USFWS	$6,000	2005-06

A00-0279-005	Improved Housing & Maintenance of *C. l. baileyi* in the MSB DOM	Lead PI	USFWS	$5,000	2005-09
A00-0279-002	Improved Housing & Maintenance of *C. l. baileyi* in the MSB DOM	Lead PI	USFWS	$5,000	2005-09
	Collaborative Proposal - Curation, Data Basing and Integration of the Orphaned Illinois Mammal Collection.	Co-PI	NSF	$207,881	2006-08
A00-2593-001	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$7,000	2010-11
A00-2813-001	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$18,500	2011-12
A00-2813-005	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$10,000	2011-16
A00-2813-003	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$10,000	2012-13
	Testing New Mexico Bats for Coronaviruses.	Co-PI	Sandia NL	$10,000	2012-23
A00-2813-004	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$10,000	2013-16
A15-0087-001	Geo-referencing of the United States Geological Survey (USGS) Arid Lands Field Station specimen data incorporated in the UNM MSB	Co-PI	USGS	$49,467	2014-19
A16-0152-001	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$10,000	2015-16
A15-0087-002	Geo-referencing of the United States Geological Survey (USGS) Arid Lands Field Station specimen data incorporated in the UNM MSB	Co-PI	USGS	$49,604	2015-16
A17-0105-001	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$15,000	2016-17
A15-0087-003	Geo-referencing of United States Geological Survey (USGS) Arid Lands Field Station specimen data incorporated in the UNM MSB	Co-PI	USGS	$48,500	2016-17
A17-0126-001	Rio Puerco Mammal Studies - BLM	Co-PI	BLM	$32,000	2016-18
A16-0392-001	MSB Division of Genomic Resources Facilities Upgrade	Co-PI	NSF	$433,598	2016-19
A17-0105-005	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$15,000	2016-21
A17-0105-004	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$15,000	2016-21
A17-0105-003	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$15,000	2016-21
A17-0105-002	Improved Archiving of Mexican Wolf specimens in MSB DOM	Lead PI	USFWS	$15,000	2016-21
A17-0126-002	Rio Puerco Mammal Studies - BLM	Co-PI	BLM	$45,000	2016-21
A17-0491-001	Archiving of NEON Small Mammal-Related Samples and Specimens	Co-PI	Battelle	$327,500	2017-17
A16-0392-002	MSB Division of Genomic Resources Facilities Upgrade	Co-PI	NSF	$66,378	2017-19
	Service Contract for Specimen Processing Services - PEN Digitization: Functional Quantitative characters for Ecology and Evolution (FunCQEE)	Co-PI	CSU	$30,000	2020-22
A21-0369-001	Bird and mammal study for PFAS monitoring on the Holloman Air Force Base	Co-PI	DBS	$160,000	2021-22
A22-0085-001	Improved Archiving of Mexican Wolf Specimens in MSB DOM	Lead PI	USFWS	$75,000	2021-26
	Collaborative Research: Ranges: Building Capacity to Extend Mammal Specimens from Western North America	Co-PI	NSF	$388,180	2022-26
	Archival and curation of USGS specimens in the MSB	PI	DOI	$100,000	2023-25
	Archiving and curation of San Nicolas Island Foxes	PI	US Navy	$4,000	2022
	Archiving and curation of San Nicolas Island Foxes	PI	US Navy	$7,500	2023
	San Nicolas Island Fox Conservation: Building Infrastructure for Parasite Identification and Pathogen Tracking	PI	Friends of the Island Fox	$6,867	2023
	Bird and mammal study for PFAS monitoring on the Holloman Air Force Base	Co-PI	DBS	$37,000	2024

TOTAL AWARDS as PI or Co-PI: $2,249,475

A21-0050-001	EAGER: MuseViromes:Temporal Occurrence, Spatial Dynamics, and Host Diversity of Betacoronaviruses, including SARS-CoV-2, with Implications for Mitigating Covid-19 Re-emergence	Other key participant	NSF	$199,652	2020-21
NSF 2308707	Sustainability in Vapor-phase Nitrogen of a World-class Frozen Biorepository at the Museum of Southwestern Biology.	Other key participant	NSF	$740,018	2023-26

as Other Key Participant: $936,670

Publications:

1. Carrión-Bonilla, Carlos A., **Jonathan L. Dunnum**, Blas Armién, Jocelyn P. Colella, Satoru Arai, Joseph A. Cook. Presence of *Myotis larensis* (Chiroptera: Vespertilionidae) in the Darién Gap, Panama: Biogeography, phylogenetics and niche modelling insight. *In prep*
2. Eve N. Rowland; Matthew J. Campen; Francesca J. Ferrara; Jonathan L. Dunnum; Joseph A. Cook; Rui Liu; Eliane El Hayek; Sakshi Patil; Marcus Garcia. Microplastic bioaccumulation in an island endemic mammal of conservation concern, the San Nicolas Island Fox (*Urocyon littoralis dickeyi*). Environmental Research, *submitted*.
3. Brant, SV, ES DeArmon, AB Johnson, ML Campbell, JT Giermakowski5, SL Brantley, and **JL Dunnum.** 2026. Revisiting the importance of host vouchering for evolutionary, ecological, and epidemiological studies of animal parasites. Journal of Parasitology *submitted*.
4. Loera, Y, M. Khakoo, E. Krueckeberg, I.G. Nilsson, Z. Wu, M. Dwire, J. Adams, L. Waits, J.K. Oakleaf, M.L. Campbell, J.L. Dunnum, J.A. Cook, B. M. vonHoldt. 2026. A dominant founder lineage has possible fitness costs for the endangered Mexican gray wolf. Molecular Ecology, *in press.*
5. Odom, TL, AW Park, JA Cook, **JL Dunnum**, SW Liphardt, KM Derieg, DJ Parsons, BS McLean, and SE Greiman. 2025. Seasonal Succession of Cestode Metacommunities in Museum Collections of Two North American Shrews (*Sorex* Spp.). Journal of Parasitology 111 (6), 755-764
6. Cobos, Marlon, Carlos Carrion Bonilla, Santiago Burneo, Joseph Cook, **Jonathan Dunnum**, Lexi Frank, Mackenzie Grover, Alexander Hey, Peter Larsen, Benjamin Wiens, Alejandra Camacho, Jocelyn Colella. 2025. Field+ Genomics Workshop: an initiative to build Nanopore sequencing capacity in field-based host-pathogen research. Biodiversity Informatics 19:109-119.
7. Weksler, M., et al. 2025. Distribution and representation of mammal collections in South America, with emphasis on genetic resources. Biological Journal of the Linnean Society 146 (1), blaf069
8. McLean et al. 2025. Extending mammal specimens with their essential phenotypic traits. Journal of Mammalogy, p.gyaf062.
9. Odom, Timothy L., Andrew W. Park, Joseph A. Cook, **Jonathan L. Dunnum**, Schuyler W. Liphardt, Katrina M. Derieg, Danielle J. Parsons, Bryan S. McLean, Stephen E. Greiman. Seasonal succession of cestode metacommunities in two North American Sorex shrews. Journal of Parasitology, *In Press*.
10. Cobos, M.E., **Dunnum, J.L**., Armién, B., González, P., Juárez, E., Salazar, J.R., Cook, J.A. and Colella, J.P., 2025. Selecting Sites for Strategic Surveillance of Zoonotic Pathogens: A Case Study in Panamá: ME Cobos et al. EcoHealth, pp.1-17.
11. Yamada, Karen, Fuka Kikuchi, **Jonathan L. Dunnum**, Pablo Gutiérrez-Moreno, Publio E. González D., Blas Armién, Mihail Pérez-Callejas, Danielle Land, Jocelyn P. Colella, Tetsuya Mizutani, Ken Maeda, Motoi Suzuki, Stephen E. Greiman, Carlos Alberto Carrión-Bonilla, Joseph A. Cook, Richard Yanagihara and Satoru Arai. 2025. Genetically distinct hantaviruses in two bat species in Panamá. iScience, p.112749.
12. Cartron, J.L.E., Gadek, C.R., **Dunnum, J.L**., Witt, C.C., Campbell, M.L., Romero, S.J., Johnson, A.B., Kutz, J., Wolf, C., Choyke, S.J. and Cook, J.A., 2025. Ecosystem-wide PFAS

characterization and environmental behavior at a heavily contaminated desert oasis in the southwestern US. Environmental Research, p.121872.

13. Paul, Deborah L., Cody W Thompson, Lizette Arroyo, Germán Botto Nuñez, Ivan Castro-Arellano, Jocelyn P Colella, Joseph A Cook, Michael V Cove, Jacqueline Dearborn, Noé U de la Sancha, Katrina Derieg, **Jonathan L Dunnum**, Adam W Ferguson, Kendall Fitzgerald, Courtney Foat, Lexi E Frank, Kurt Galbreath, Destiny F Gonzalez, Rebecca K Hawkins, Tommy Herrera, Alexander Hey, Andrew G Hope, Angela D Hornsby, Daniel Ibanez, Oliver Keller, Dianna Krejsa, Kailey Mahoney, Jason Malaney, Molly M McDonough, Thomas C McElrath, Verity Mathis, Teresa Mayfield-Meyer, Ilana Mosley, Nicté Ordóñez-Garza, Kendra Phelps, Roy N Platt, Josh Pletcher, Hilary H Rinsland, Charles E Rupprecht, Kelly A Speer, Laura Steger, Nathan Upham, Richard Allen White, Ben J Wiens, Litsa Wooten, Pamela S Soltis, Harnessing natural history collections for collaborative pandemic preparedness, BioScience, 2025; biaf035, https://doi.org/10.1093/biosci/biaf035
14. Boldgiv, Bazartseren, Ariuntsetseg Lkhagva, Scott V. Edwards, Nils Chr. Stenseth, Jamsranjav Bayarsaikhan, Dondog Altangerel, Dorj Usukhjargal, Badamgarav Dovchin, Sundev Gombobaatar, Nyamsuren Batsaikhan, Christina Warinner, Isaac Hart, Kurt E Galbreath, Stephen E. Greiman, Jason L. Malaney, James Murdoch, Bryan McLean, Sharon N. DeWitte, Erin Manzitto-Tripp, Karen Chin, Talia S. Karim, Carl Simpson, Nancy J. Stevens, **Jonathan Dunnum**, Joseph Cook, William Timothy Treal Taylor. Global natural history infrastructure requires international solidarity, support and investment in local capacity: lessons from Mongolia. PNAS 122 (6) e2411232122. https://doi.org/10.1073/pnas.2411232122
15. Samuel M Goodfellow; Robert A Nofchissey; Chunyan Ye; Jaecy K Banther-McConnell; Thanchira Suriyamongkol; Joseph A Cook; **Jonathan Dunnum**; Ivana Mali; Steven Bradfute. 2025. A human pathogenic hantavirus circulates and is shed in taxonomically diverse rodent reservoirs. PLOS Pathogens 21, e1012849.
16. Li, Caesar Z.; Amin Haghani; Qi Yan; Ake T. Lu; Joshua Zhang; Zhe Fei1; Jason Ernst; X. William Yang; Vadim N. Gladyshev; Todd R. Robeck, Andreas S. Chavez, Joseph A. Cook, **Jonathan L. Dunnum**, Ken Raj; Andrei Seluanov; Vera Gorbunova; Steve Horvath. 2024. Epigenetic predictors of species maximum lifespan and other life history traits in mammals. Science Advances 10 (23), eadm7273.
17. Goodfellow, Samuel M., Robert A. Nofchissey, Kathryn E. Coan, Kurt C. Schwalm, Joseph A. Cook, **Jonathan L. Dunnum**, Diane Hanfelt-Goade, Valerie J. Morley, Darrell L. Dinwiddie, Daryl B. Domman, Jerry W. Dragoo, and Steven B. Bradfute. 2024. Genome sequencing identifies "Limestone Canyon virus" as Montaño virus (Hantaviridae: *Orthohantavirus montanoense*) circulating in brush deermice in New Mexico. npj Viruses 2 (1), 11. https://doi.org/10.1038/s44298-024-00016-6.
18. Blackburn, David C., Doug M. Boyer, Jaimi A. Gray, Julie Winchester, John M. Bates, Stephanie L. Baumgart, Emily Braker, Daryl Coldren, Kevin W. Conway, Alison Davis Rabosky, Noé de la Sancha, Casey B. Dillman, **Jonathan L. Dunnum**, Catherine M. Early, Benjamin W. Frable, Matthew W. Gage, James Hanken, Jessica A. Maisano, Ben D. Marks, Katherine P. Maslenikov, John E. McCormack, Ramon S. Nagesan, Gregory G. Pandelis, Heather L. Prestridge , Daniel L. Rabosky, Zachary S. Randall , Mark B. Robbins, Lauren A. Scheinberg, Carol L. Spencer, Adam P. Summers, Leif Tapanila , Cody W. Thompson, Luke Tornabene, Greg J. Watkins-Colwell, Luke J. Welton, the oVert Project Team, and Edward L. Stanley. 2024. Increasing the impact of vertebrate scientific collections through 3D-imaging: the openVertebrate (oVert) Thematic Collections Network. Bioscience, biad120, https://doi.org/10.1093/biosci/biad120.
19. Witt, Christopher C, Chauncey R. Gadek; Jean-Luc E. Cartron; Michael J. Andersen; Mariel L. Campbell; Marialejandra Castro-Farías; Ethan F. Gyllenhaal; Andrew B. Johnson; Jason L.

Malaney; Kyana N. Montoya; Andrew Patterson; Nicholas T. Vinciguerra; Jessie L. Williamson; Joseph A. Cook; **Jonathan L. Dunnum**. 2024. Extraordinary levels of per- and polyfluoroalkyl substances (PFAS) in vertebrate animals at a New Mexico desert oasis: multiple pathways for wildlife and human exposure. Environmental Research 249, doi.org/10.1016/j.envres.2024.118229.

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Chapter 28 Striped Skunk
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Photos 28.4a, b, c. [Variation in coat pattern of New Mexico striped skunks]
Chapter 29 Spotted Skunk
Photo 29.2. [Western and Rio Grande spotted skunks, rock squirrel, and striped skunk]
Chapter 30 Ringtail
Photos 30.3a, b. [Variation in dorsal coloration of ringtails]

Presentations (national/international meetings):

- **Invited presentations:**
  1. **Dunnum, Jonathan L.** 2024. Connecting and Enhancing Accessibility to Natural History Collection Data. Museums and Emerging Pathogens in the Americas. Field + Genomics Workshop. Otongachi, Ecuador. 28 October- 6 November 2024.
  2. **Dunnum, Jonathan L.** 2024. Workflows in specimen preparation for holistic sampling. Museums and Emerging Pathogens in the Americas. Field + Genomics Workshop. Otongachi, Ecuador. 28 October- 6 November 2024.
  3. **Dunnum, Jonathan L**. 2021. Invited Keynote: "Natural history museums in the Americas: To become a nexus for emerging pathogen research and mitigation will require growth, digital access, and sustainability". IV Simposio de Colecciones Mastozoológicas en Colombia, IV Conreso Colombiano de Mastozoología [Colombian Society of Mammalogists Annual Meeting]. 26 November 2021.
  4. **Jonathan L. Dunnum**. 2021. Case Study: Initiating collaborations between museums and public health: perspective from New Mexico. Museums & Emerging Pathogens in the Americas. Webinar.
  5. Joseph A. Cook, **Jonathan L. Dunnum**, Monica Naranjo. 2019. Investing in Key Infrastructure for Research in Pathobiology: Merging EcoHealth and One Health. Primer Congreso Internacional de Enfermedades Emergentes y Zoonóticas de Panamá, Hantavirus: 20 Años de Investigación. 29-31 August 2019. Panama City, Panama.
  6. **Dunnum, J.L**. Invited talk: Connecting NH collection data. ASM/IDigBio Collections Digitization and Imaging Workshop. American Society of Mammalogists meeting. Jacksonville, FL. 12 June 2015.
  7. **Dunnum, J.L.** and J.A. Cook. 2015. Invited Talk: Emerging Pathogens and the Role of Natural History Archives: The Hantavirus Example. AEON Workshop. University of New Mexico. 19 February 2015.
  8. **Dunnum, J.L**., and J.A. Cook. 2011. Invited talk: Gerrit Smith Miller – Contributions to European mammalogy and the value of natural history collections. 6th European Mammal Congress. Paris, France, 19-24 July 2011.

- **Non-invited presentations**

1. Dunnum, J.L*., J-L.E. Cartron, M.A. Garcia, M.J. Campen, M.L. Campbell, J.L. Malaney, J.A. Cook. Natural History Biorepositories as Sentinels for Environmental Contaminants: Assessing Mammalian Uptake of "Forever Chemicals" (PFAS) and Microplastics. ASM Meeting, Boulder, Colorado, June 2024
2. Thompson, Cody W*., David C. Blackburn, Ellen R. Cassidy, Joseph A. Cook, Jonathan L. Dunnum, Ashley Gorris, Abraham Kassem, John Korbin, Bryan S. McLean, Rafaela Missagia6, Ramon S. Nagesan, Lydia Thomas, and Noé U. de la Sancha. Getting FuncQEE -- 3D models from the rodent tree of life. ASM Meeting, Boulder, Colorado, June 2024
3. Gonzalez*, J.A. Cook, J.L. Dunnum. Towards a Museum-based One Health Mode. ASM Meeting, Boulder, Colorado, June 2024
4. Bayarmagnai Davganyam, Lexi B. Baca*, Batsaikhan Nyamsuren, Altangerel T. Dursahinhan, Jonathan L. Dunnum, Gajidmaa Ulammunkh, Damdinsuren Boldbaatar, Erdene-Ochir Tseren-Ochir, Joseph A. Cook, Jason L. Malaney. Comparative phylogeography of two jerboa complexes (Dipodidae) elucidate insights for the assembly of Central Asian deserts and point to temporal, but not spatial, concordance. ASM Meeting, Boulder, Colorado, June 2024
5. W.M. Burris*, M.L. Campbell, J.A. Cook, J.L. Dunnum, K. Galbreath, S.E. Greiman, J.L. Hayden, S.E. Koerner, B.S. McLean. Patterns of flea abundance on small mammals in Mongolia. ASM Meeting, Boulder, Colorado, June 2024
6. Cobos*, M., J.L. Dunnum, B. Armien, J.A. Cook, J.P. Colella. Environmental dynamics of rodent-borne hantaviruses in Panama. ASM Meeting, Boulder, Colorado, June 2024
7. Wooten, Nikolitsa, Jason Malaney, Stephen E Greiman, Kurt Galbreath, Bryan S McLean, Sally Koerner, **Jonathan Dunnum**, Batsaikhan Nyamsuren, Lkhagvasuren D., Auggie Tsogtsaikhan, S. L. Gardner, Erdene Ochir, Joseph Cook. 2023. Visualizing Mongolian mammal specimens and their parasites across space and time. 13th International Mammalogical Congress, Anchorage, Alaska. 14-20 July 2023.
8. Nofchissey, Robert A., Samuel Goodfellow, Jaecy Banter-McConell, Ivana Mali, Thanchira Suriyamongkol, **Jonathan Dunnum**, Joseph Cook, Steven Bradfute. 2023. Orthohantavirus research: Cytochrome-b sequences and morphology critical to Peromyscus species host identification. 13th International Mammalogical Congress, Anchorage, Alaska. 14-20 July 2023.
9. Cobos, Marlon E., **Jonathan Dunnum**, Blas Armién, Publio Gonzalez, Enós Jesús Juárez, Jacqueline Salazar, Joseph Cook, Jocelyn P Colella. 2023. Environmental and geographic considerations for comprehensive sampling: an example with Panamanian rodents and their pathogens. 13th International Mammalogical Congress, Anchorage, Alaska. 14-20 July 2023.
10. **Jonathan L. Dunnum.** 2021. Natural history collections as a nexus for emerging disease research – State of the resource in the Americas. Symposium- Mammalian Pathobiology & Museums. American Society of Mammalogists 100th Annual Meeting, June 2021.
11. **Jonathan Dunnum**, Robert Dowler, and the ASM Systematic Collections Committee. 2017. 2017 Resurvey of the Mammal Collections of the Western Hemisphere. American Society of Mammalogists, 97th Annual Meeting, June 22, Moscow Idaho.
12. Mariel L. Campbell, **Jonathan L. Dunnum**, Thomas F. Turner, Christopher C. Witt, Joseph A. Cook. Transfer of the Biorepository of the Division of Genomic Resources, Museum of Southwestern Biology to Vapor Phase Nitrogen Cryogenic Storage. Poster presentation, Society for the Preservation of Natural History Collections (SPNHC): Denver, CO, June 18-21, 2017.

13. Jones, Kaylen, Mariel L. Campbell, **Jonathan L. Dunnum**, Maggie Dwire, Dusty MacDonald, and Joseph A. Cook. Building Critical Infrastructure for Endangered Species Management: An Event-based Model. Poster presentation, Society for the Preservation of Natural History Collections (SPNHC): Denver, CO, June 18-21, 2017.
14. **Jonathan L. Dunnum**, Richard Yanagihara, Karl M. Johnson, Blas Armien, Nyamsuren Batsaikhan, Laura Morgan and Joseph A. Cook. 2016. Biospecimen repositories and integrated databases as critical infrastructure for pathogen discovery and pathobiology research.
    a. American Society of Mammalogists, 96th Annual Meeting, Minneapolis, June.
    b. International Congress for Tropical Medicine and Malaria, Brisbane, Australia, September 18-22, 2016.
15. Weber, JA, J Edwards, **JL Dunnum**, and JA Cook. 2016. The molecular basis of high-elevation adaptation in wild Cavies. American Society of Mammalogists, 96th Annual Meeting, Minneapolis, June.
16. Campbell, M.L., **J.L. Dunnum**, and J.A. Cook. 2015. The Role of Museum-Based Biorepositories and Biodiversity Databases in Infectious Disease Discovery and Epidemiology: An Example from the Division of Genomic Resources, Museum of Southwestern Biology. International Society for Biological and Environmental Repositories (ISBER) meeting. Phoenix, AZ.5-9 May.
17. Yanagihara, R., **J. L. Dunnum,** J. A. Cook. 2015. Mining archival tissue collections from shrews, moles and bats to gain insights into the spatial-temporal distribution and genetic diversity of hantaviruses. European Mammal Congress. August.
18. Cook, J.A., J**.L. Dunnum**, and R. Yanigahara. 2. "Hantavirus Emergence and Detection: A Case Study" at SciColl's Engaging Scientific Collections in Emerging Infectious Disease Research. Smithsonian Institution, Washington DC, October 2014.
19. **Dunnum, J.L.** 2013. Expanding the reach of NH Research Collections and biodiversity data. Invited talk- Symposium, Using Online Tools to Make Accessible Museum Collections. Association of Science and Technology Centers annual meeting, Albuquerque, NM Oct 2013.
20. MacDonald, S.O., Yadéeh E. Sawyer, Natalie Dawson, **Jon Dunnum**, Brad Truett, and Joseph A. Cook. Island Surveys to Learn about Endemic Species (ISLES). 2011 Wildlife Society Meeting.
21. Mahadeshwar, H. S.,**J. Dunnum**, and J. Salazar-Bravo. Phylogeny, evolution, and systematics of the south american genus *Microcavia* (Rodentia: Caviidae). 2010 Texas Society of Mammalogists meeting.
22. **Dunnum, J. L.**,and J. Salazar-Bravo**.** Molecular systematics of the *Galea musteloides* group: inferences from Cytochrome b sequence data. 2006 American Society of Mammalogists meeting.
23. **Dunnum, J. L.**, L. A. Ruedas, and J. Salazar-Bravo. Chromosomes of *Sylvilagus brasiliensis* from the Peninsula del Azuero, Panama. 2004 American Society of Mammalogists meeting.
24. **Dunnum, J. L.**, Salazar-Bravo, J., and T. L. Yates. Systematics of Bolivian *Cavia*, with biogeographic notes on the genus. 2003 American Society of Mammalogists meeting.
25. **Dunnum, J. L.**, Salazar-Bravo, J., and T. L. Yates. On the status of *Cavia tschudii* in Bolivia. 2002 American Society of Mammalogists meeting.
26. **Dunnum, J. L.** Long-term Monitoring of Small Mammals and Zoonotic Disease agents. 2001. 4th East Asian Long-Term Ecological Research Network Meeting. Hovsgol, Mongolia.
27. **Dunnum, J. L.,** Yates, T. L., Beaty, B., Calisher, C., Douglass, R., and Mills, J. Temporal and spatial demographic patterns in *Peromyscus*. 2001 American Society of Mammalogists

meeting.

28. **Dunnum, J. L.,** Yates, T. L., Abbott, K. H., Calisher, C. H., Frey, B. J., Lamke, K. K., Parmenter, C. A., Polechla, P. J., Tinnin, D. S**.** The Need for Long-Term Monitoring in Understanding Epizootic Events. 4th International Conference on HFRS and Hantaviruses, Atlanta, GA, 1998 and 1998 SWAN meetings.
29. Yates, T. L., **Dunnum, J. L.,** Cheek, J. E., Frey, B. K., Ksiazek, T. G., Koster, F. T., Lamke, K. K., Parmenter, C. A., Peters, C. J., Polechla, P. J., Ruedas, L. A., Tinnin, D. S. The "Very Large Mouse Array" (A Closed System for Wild Rodent Study) and GIS Modeling: Recently Initiated Research at the University of New Mexico. 4th International Conference on HFRS and Hantaviruses, Atlanta, GA, 1998 and 1998 SWAN meetings.
30. Ruedas, L. A., Yates, T. L., Campbell, M. L, Abbott, K. H., Calisher, C. H., **Dunnum, J. L**., Mills, J. N., Ksiazek, T. G., Parmenter, C. A., Peters, C. J., and Polechla, P. J. Effects of Hantavirus Infection on Natural Populations of Rodents (*Muridae peromyscus*). 4th International Conference on HFRS and Hantaviruses, Atlanta, GA, 1998.
31. Parmenter, C. A., R. R. Parmenter, T. L. Yates, **J. L. Dunnum**, M. L. Campbell, and J. Milner. Long-Term Mark-Recapture Studies of Small Mammals: Effects of Cumulative Low-Level Trap Mortalities on Density Estimation and Population Dynamics. 4th International Conference on HFRS and Hantaviruses, Atlanta, GA, 1998.
32. Yates, T., T. Ksiazek, R. Parmenter, J. Mills, P. Rollin, S. Nichol, **J. Dunnum**, R. Baker, C. Parmenter, C. Peters**.** Hantavirus Outbreaks and Rodent Ecology: The Role of El Niño. 4th International Conference on HFRS and Hantaviruses, Atlanta, GA, 1998.
33. Parmenter, C.A., R.R. Parmenter, T.L. Yates, **J.L. Dunnum,** M.L. Campbell, and J. Milner. Long-term mark-recapture studies of small mammals: Effects of cumulative low-level trap mortalities on density estimation and population dynamics. 1997 ASM meetings and 1997 SWAN meetings.
34. Polechla, P.J., **J.L. Dunnum**, R.W. Perry. Reproductive notes on a mid-winter sample of Arkansas small mammals. 1997 SWAN meetings.
35. **Dunnum, J.L.,** M.L. Campbell, J.W. Dragoo, K.K. Lamke, J.N. Mills, J. Milner, C.A. Parmenter, P.J. Polechla, T.L. Yates. Do Short-term Mammal Surveys Give Valid Estimates of Species Diversity? 1997 SWAN meetings.
36. Parmenter, C. A., R. R. Parmenter, T. L. Yates, **J. L. Dunnum**, M. L. Campbell, and J. Milner**.** Long-Term Mark-Recapture Studies of Small Mammals: Effects of Cumulative Low-Level Trap Mortalities on Density Estimation and Population Dynamics. 7th International Theriological Congress, Acapulco, Mexico, 1997.
37. **Dunnum, J. L**., J. Salazar Bravo, and T. L. Yates. 1997. The largest reported diploid chromosome number for a mammal, Dactylomys boliviensis. 1996 ASM meetings and 1995 SWAN meetings.
38. Parmenter, C.A., T.L. Yates, R.R. Parmenter, S. Mistry, M.L. Campbell, **J.L. Dunnum**, J. Milner, H.C. Smith, J.E. Childs, J.N. Mills, and C.J. Peters. Effects of blood sampling procedures on rodent survival and trapability. 1996 SWAN meetings.
39. Yates, T.L., T.G. Ksiasek, R.R. Parmenter, P.E. Rollin, J.W. Brunt, S.T. Nichol, **J.L. Dunnum**, R.J. Baker, and C.J. Peters. Viral refugia and climate change: The roll of rodent population density. 1996 SWAN meetings.

Presentations to general audience in a scholarly capacity;

1. Dunnum, JL. Natural history research collections. Lobo Science class, Jefferson Middle School. Albuquerque, NM. 11 Oct. 2023.

2. Dunnum, JL. Natural history research collections and their role in science. Bernalillo County Master Naturalists Program. Albuquerque, NM. 3 Aug 2023.
3. Dunnum, JL. 2022. Archiving/Biobanking Mammalian Samples. US Fish and Wildlife Service Biobanking Webinar. 21 April 2022.
4. Dunnum, JL. Natural history research collections and their role in science. Bernalillo County Master Naturalists Program. Albuquerque, NM. July 2022.
5. Dunnum, JL. 2020. Natural History Research Collections. Jefferson Middle School, Albuquerque, NM. October 2020.
6. Dunnum, JL. Natural history research collections and their role in science. Bernalillo County Master Naturalists Program. Albuquerque, NM. June 2019.
7. Dunnum, JL. 2018. What makes the Museum of Southwestern Biology so great – How the MSB enhances biology research and education. University of New Mexico, Department of Biology, Brown Bag seminar series. 5 September 2018.
8. Dunnum, JL. Natural history research collections and their role in science. Bernalillo County Master Naturalists Program. Albuquerque, NM. June 2018.
9. Dunnum, JL. Natural history research collections and their role in science. Bernalillo County Master Naturalists Program. Albuquerque, NM. July 2017.
10. Cook, JA and JL Dunnum. Mexican Wolf Specimen Bank and SSP Access. Joint Meeting of the Mexican and Red Wolf Species Survival Programs, Chico Hot Springs, MT, 2 Aug 2016.
11. Dunnum, JL. Natural history research collections and their role in science. Bernalillo County Master Naturalists Program. Albuquerque, NM. 9 June 2016.
12. Dunnum, JL. Natural history research collections and their role in science. New Mexico Museum of Natural History & Science. Presentation to staff, docents and volunteers. Albuquerque, NM. 20 July 2015.
13. Dunnum, JL. Mammals of the Middle Rio Grande Valley. Bernalillo Co. Open Space - Naturalists Series.14 March 2015.
14. Dunnum, JL and JA Cook. Emerging Pathogens and the Role of Natural History Archives: The Hantavirus Example. AEON series - University of New Mexico.
15. Dunnum, JL. The Museum of Southwestern Biology, an overview. Sandia High School. 21 January 2014
16. Dunnum, JL. Natural History Research Collections: Use and Value. Bernalillo County Master Naturalists Program. University of New Mexico. 26 August 2014.
17. Dunnum, JL. The Museum of Southwestern Biology, an overview. Bernalillo County Master Naturalists Program. 2013
18. Dunnum, JL. The Museum of Southwestern Biology an archival observatory for biodiversity and its role with the Mexican gray wolf. Mexican Wolf SSP meeting. 2012.

Foreign Field Experience:

Mongolia 2025. Jerboa Evolution/Development project. Omnogovi aimag. 300 specimens collected.

Mongolia 2023. Mammal/parasite/pathogen surveys of Bulgan, Khovsgol, Tov, Zavhan, Bayan-Olgii, Khovd, Govi-Altai, Uvs Aimags. 600 specimens collected.

Panama 2023. Darien fieldwork (bat and pathogen sampling expedition for NSF funded PICANTE project).

Ecuador/Panama 2022. Planning trip to organize NSF funded Pathogen Informatics Center: Analysis, Networking, Translation & Education (PICANTE)

Mongolia 2022. Mammal/parasite/pathogen surveys of Tov, Dundgovi, Ovorkhangai, Omnogovi, Khentii Aimags. 1400 specimens collected.

Ecuador 2019. Co-taught short course, Quito, mammals/parasite survey at Mashpi reserve.
Cuba 2019. UNM Tropical Biology class trip
Panama 2018. Mammal/parasite survey, Amistad Intl Park and UNM Tropical Biology class trip.
Ecuador 2016. Mammal/parasite surveys of the Yanayacu and Yasuni parks.
Panama 2015. Mammal/parasite surveys of the Darien province.
Panama 2014. Mammal/parasite surveys of Santa Fe and Omar Torrijos national parks.
Canada 2014. Mammal/parasite surveys of Yukon Territory (CIIBA project).
Peru/Bolivia 2013. Mammal/parasite survey of altiplano and yungas (Caviid hypoxia study).
Panama 2012. Mammal/pathogen sampling Gorgas project/UNM tropical biology.
SE Alaska 2011. Mammal/parasite surveys of the islands of SE Alaska (ISLES project).
SE Alaska 2010. Mammal/parasite surveys of the islands of SE Alaska (ISLES project).
Panama 2010. Mammal/pathogen sampling Gorgas project.
Panama 2009. Mammal/pathogen sampling STRI/Gorgas project.
Costa Rica 2009. Assisted on one-week course on tropical biology. University of New Mexico.
Costa Rica 2008. Assisted on one-week course on tropical biology. University of New Mexico.
Colombia 2006. Global Mammal Assessment - Andes. Invited expert, International Union for Conservation of Nature (IUCN) workshop.
Panama 2004. One- week joint UNM/TTU Tropical Mammalogy/Zoonotic disease field class.
Bolivia 2003 Expedition. Mammals from Sud Yungas, La Paz department for Master's research.
Mongolia 2001 Expedition. Two week collecting trip and meeting of the International Long-Term Ecological Research Network at Lake Hovsgol National Park. NSF supplemental grant.
Bolivia 2000 Expedition. Small mammal survey of the Beni and Santa Cruz departments for an NIH funded Machupo virus project.
Mongolia 1999 Expedition. Organized and led a one-month trip to Mongolia to install International Long-Term Ecological Research (ILTER) small mammal monitoring webs and collect mammal specimens for the Museum of Southwestern Biology. NSF supplemental grant.
Bolivia 1993 Expedition. Two month mammalian survey and collection trip. La Paz and Cochabamba departments. REU supplemental grant.
Bolivia 1992 Expedition. Two month mammalian survey and collection trip. La Paz and Beni departments. REU supplemental grant.
Bolivia 1991 Expedition. Three month mammalian collection and survey trip. Santa Cruz and Tarija departments. REU supplemental grant.

Awards:

2023 – UNM Sigma Xi Noteworthy Technical Support Person Award.
2013 – Sarah Belle Brown Community Service Award – Nominee.
2012- Outstanding Staff member –University of New Mexico, Department of Biology.
2010 - Clyde Jones, Best poster presentation on studies pertaining to mammalian cytology, evolution, and systematic for "Phylogeny, evolution, and systematics of the South American genus *Microcavia* (Rodentia: Caviidae). Mahadeshwar, H. S., J. Dunnum, and J. Salazar-Bravo. Texas Society of Mammalogists meeting.
2007 - Sustainability Science Award, Ecological Society of America.
"The ecology and evolutionary history of an emergent disease: Hantavirus Pulmonary Syndrome". Bioscience 52(11):989-998. 2002.
2003 - J. Knox Jones Memorial Endowed Scholarship – TTU Biological Sciences - Fall 2003 ($1250.00).

Languages:

Working knowledge of Spanish and German.

Travel:

Extensive travel and fieldwork throughout the U.S., Europe, Mexico, Central and South America, Mongolia, New Zealand, Australia and Cuba.

Academic or field expeditions to Bolivia (6); Mongolia (5); Ecuador (3), Peru (1); Mexico (8); Colombia (1); Panama (10), Costa Rica (2), Canada (1), Alaska (3) and Cuba (1).