

## CURRICULUM VITAE

# Cecil M. Lewis, Jr.

**Department of Anthropology**  
University of Oklahoma, Dale Hall Tower 510a  
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**Laboratories of Molecular Anthropology and  
Microbiome Research (LMAMR.ORG)**  
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### Education

Post-doctoral Human Genetics, University of Michigan Medical School, 2005-2007  
Ph.D. (Distinction) Anthropology, University of New Mexico, 2005  
M.A. Anthropology, University of New Mexico, 2001  
B.A. Anthropology, University of Washington, 1996

### Faculty Appointments

2017-Present Professor, Department of Anthropology, Univ. of Oklahoma  
2014-present Presidential Research Professor, Univ. of Oklahoma  
2014-present Co-director, Labs of Molecular Anthropology and Human Microbiome Research  
2016-present Co-director, Center for American Indian and Alaskan Native Genomic Research  
2014-present Affiliated Faculty, University of Oklahoma Stephenson Cancer Center  
2007-present Affiliated Faculty, Center for Applied Social Research, Univ. of Oklahoma  
2007-present Affiliated Faculty, Ecology and Evolutionary Biology, Univ. of Oklahoma  
2008-present Affiliated Faculty, Oklahoma Tobacco Research Center, Univ. of Oklahoma  
2008-present Affiliated Faculty, Health Science Center Graduate College, Univ. of Oklahoma  
2016-2020 Director, Center for Microbial and Anthropological Sciences, Univ. of Oklahoma  
2012-2017 Associate Professor, Department of Anthropology, Univ. of Oklahoma  
2007-2014 Director of the Molecular Anthropology Laboratories, Univ. of Oklahoma  
2007-2012 Assistant Professor, Department of Anthropology, Univ. of Oklahoma

### Professional Interests

Human Metagenomics, Molecular Anthropology, Human Evolution, Ancient DNA, Native Community Engagement, Health Disparities Research

### Awards and Grants

Pending-2027 NIH 1 R25 CA274172-01 [Contact PI] "Native American Youths Enjoy Science - YES Oklahoma" [Perfect Score: 10]  
2016-2024 NIH RM1 HG009042 [Co-PD/PI] Centers of Excellence in Ethical Legal and Social Implications (ELSI) Research (CEER) "Center on American Indian and Alaska Native Genomic Research"  
2021-2024 NSF #2045308 [Contact PI] "Hominid Dental Metagenomes for Pathogen Evolution Research"  
2021-2022 Oklahoma Center for the Advancement of Science and Technology - Health Research Postdoctoral Fellowship (HF20-032-1) "Genomic Determinants of Tetracycline Resistance in a Non-Industrial Population"  
2016-2021 NIH 2 R01 GM089886 (renewal) [contact PD/PI] "Microbial Ecologies of Indigenous Communities"

2019-2021 NSF #1925579 [PI, Co-PI: Jacobson] “Doctoral Dissertation Research: Factors Influencing Ecological Dynamics of the Human Gut Microbiome”

2017-2019 NSF #1650746 [PI, Co-PI: Mann] “Doctoral Dissertation Research: The impact of microeukaryotes in human microbiome evolution”

2015-2018 NSF #1523264 [Co-PI] “Direct Proteomic Investigation of Dairying in the Near Eastern and European Neolithic”

2015-2017 NSF #1516633 [Co-PI] “Anthropological Investigation of the Evolution and Ecology of the Human Oral Microbiome”

2011-2015 NIH R01 GM089886 [contact PD/PI] "Intestinal Microbial Ecologies of Indigenous Communities"

2009-2014 NSF #0845314 [PI] "CAREER: Research, education, and capacity building - genomic structure of native Peruvian populations" (total award of \$644,945)

2009-2013 NIH R01 HG005172 [Co-PD/PI] "Indigenous Communities and Human Microbiome Research"

2009-2010 Wenner-Gren Foundation Gr. ICRG - 87 [PI] "International Collaborative Research Grant: Mitochondrial Population Genomics in Peru"

2008-2009 Oklahoma Tobacco Research Center, Seed Grant [PI] "Genetic Risks for Lung Cancer in Oklahoma African Americans"

2005-2007 Genome Science Training Program, National Institutes of Health

2004, 2002 Dissertation Fieldwork Grant and Supplement, Wenner-Gren Foundation #6891

2002 Dissertation Improvement Grant, National Science Foundation #0221962

2000 Sigma Xi Grants-in-Aid of Research

## Publications

### *Refereed Articles:*

\* *I served as a first author or a corresponding author*

- In Review\* Haffner JJ, Katemauswa M, Kagone TS, Hossain E, Jacobson D, Flores K, Parab AR, Obregon-Tito AJ, Tito RY, Reyes LM, Troncoso-Corzo L, Guija-Poma E, Meda N, Carabin H, Honap TP, Sankaranarayanan K, Lewis Jr. CM, McCall L-I. 2022. Untargeted Fecal Metabolomic Analyses Across an Industrialization Gradient Reveal Core Metabolites and Impact of Industrialization on Fecal Microbiome-Metabolome Interactions. (under review at mSystems)
- In Review\* Lund J, Lewis Jr. CM. Entanglement, Sovereignty and Science.
- In Review\* Khanam SS, Patel N, O’Neil L, Obregon-Tito A, Tito R, Lawson P, Guija E, Troncoso L, Marin L, Warinner C, Lewis Jr. CM, Sankaranarayanan K. The Genotypic and Phenotypic Diversity of Antibiotic Resistant Escherichia coli Strains from Gut Microbiome of Traditional and Antibiotic Naive Hunter-Gatherer Individual in Peru.
- In Revision Lewis, Jr. CM, Mercy YA, DeWitte, SN, Stone AC Ancient Pathogens Provide a Window onto Health and Well-Being. PNAS
- In Revision\* Honap TP, Monroe CR, Johnson SJ, Jacobson DK, Abin CA, Austin RM, Sandberg P, Levine M, Sankaranarayanan K, Lewis CM. Microbial ecologies of pre-contact era Native American ancestors provide insights into the ‘silent epidemic’ of oral disease. AJBA

- In press Beans JA, Trinidad SB, Blacksher E, Hiratsuka VY, Spicer P, Woodahl EL, Boyer BB, Lewis Jr. CM, Gaffney PM, Garrison NA, Burke W. Communicating precision medicine research: multidisciplinary teams and diverse communities.
- 2021\* Jacobson DK, Honap TP, Ozga AT, Meda N, Kagone TS, Carabin H, Spicer P, Tito RY, Obregon-Tito AJ, Reyes LM, Troncoso-Corzo L, Guija-Poma E, Sankaranarayanan K, Lewis CM, Jr. Analysis of global human gut metagenomes shows that metabolic resilience potential for short-chain fatty acid production is strongly influenced by lifestyle. *Sci Rep.* 2021;11(1):1724. Epub 2021/01/20. doi: 10.1038/s41598-021-81257-w. PubMed PMID: 33462272; PMCID: PMC7813856.
- 2021\* Jacobson D, Moore K, Gunderson C, Rowland M, Austin R, Honap TP, Xu J, Warinner C, Sankaranarayanan K, Lewis CM, Jr. Shifts in gut and vaginal microbiomes are associated with cancer recurrence time in women with ovarian cancer. *PeerJ.* 2021;9:e11574. Epub 2021/06/29. doi: 10.7717/peerj.11574. PubMed PMID: 34178459; PMCID: PMC8214851.
- 2021 Fellows Yates JA, Velsko IM, Aron F, Posth C, Hofman CA, Austin RM, Parker CE, Mann AE, Nagele K, Arthur KW, Arthur JW, Bauer CC, Crevecoeur I, Cupillard C, Curtis MC, Dalen L, Diaz-Zorita Bonilla M, Diez Fernandez-Lomana JC, Drucker DG, Escribano Escriba E, Francken M, Gibbon VE, Gonzalez Morales MR, Grande Mateu A, Harvati K, Henry AG, Humphrey L, Menendez M, Mihailovic D, Peresani M, Rodriguez Moroder S, Roksandic M, Rougier H, Sazelova S, Stock JT, Straus LG, Svoboda J, Tessmann B, Walker MJ, Power RC, Lewis CM, Sankaranarayanan K, Guschanski K, Wrangham RW, Dewhirst FE, Salazar-Garcia DC, Krause J, Herbig A, Warinner C. The evolution and changing ecology of the African hominid oral microbiome. *Proc Natl Acad Sci U S A.* 2021;118(20). Epub 2021/05/12. doi: 10.1073/pnas.2021655118. PubMed PMID: 33972424; PMCID: PMC8157933.
- 2021 Rampelli S, Turrone S, Mallol C, Hernandez C, Galvan B, Sistiaga A, Biagi E, Astolfi A, Brigidi P, Benazzi S, Lewis CM, Jr., Warinner C, Hofman CA, Schnorr SL, Candela M. Components of a Neanderthal gut microbiome recovered from fecal sediments from El Salt. *Commun Biol.* 2021;4(1):169. Epub 2021/02/07. doi: 10.1038/s42003-021-01689-y. PubMed PMID: 33547403; PMCID: PMC7864912.
- 2020 Borry, M., Cordova, B., Perri, A., Wibowo, M. C., Honap, T. P., Jada Ko, W. T., Yu, J., Britton, K., Flink, L. G., Power, R. C., Stuijts, I., Garcia, D. S., Hofman, C. A., Hagan, R. W., Kagone, T. S., Meda, N., Carabin, H., Jacobson, D., Reinhard, K., Lewis, C. M., Kostic, A., Jeong, C., Herbig, A., Hubner, A., Warinner, C. G. (2020). CoproID predicts the source of coprolites and paleofeces using microbiome composition and host DNA content. *PeerJ*, 8(e9001). <https://doi.org/10.7717/peerj.9001>. <https://peerj.com/articles/9001/> (Published)
- 2020 Stone AC, Lewis CM, Jr., Schuenemann VJ. Insights into health and disease from ancient biomolecules. *Philos Trans R Soc Lond B Biol Sci.* 2020;375(1812):20190568. Epub 2020/10/06. doi: 10.1098/rstb.2019.0568. PubMed PMID: 33012226; PMCID: PMC7702800.

- 2020\* Lewis CM, Jr., McCall LI, Sharp RR, Spicer PG. Ethical priority of the most actionable system of biomolecules: the metabolome. *Am J Phys Anthropol.* 2020;171(2):177-81. Epub 2019/10/24. doi: 10.1002/ajpa.23943. PubMed PMID: 31643083; PMCID: PMC7003909.
- 2020\* Jacobson DK, Honap TP, Monroe C, Lund J, Houk BA, Novotny AC, Robin C, Marini E, Lewis CM, Jr. Functional diversity of microbial ecologies estimated from ancient human coprolites and dental calculus. *Philos Trans R Soc Lond B Biol Sci.* 2020;375(1812):20190586. Epub 2020/10/06. doi: 10.1098/rstb.2019.0586. PubMed PMID: 33012230; PMCID: PMC7702801.
- 2020\* Honap TP, Sankaranarayanan K, Schnorr SL, Ozga AT, Warinner C, Lewis CM, Jr. Biogeographic study of human gut-associated crAssphage suggests impacts from industrialization and recent expansion. *PLoS One.* 2020;15(1):e0226930. Epub 2020/01/16. doi: 10.1371/journal.pone.0226930. PubMed PMID: 31940321; PMCID: PMC6961876.
- 2019 Hagan RW, Hofman CA, Hubner A, Reinhard K, Schnorr S, Lewis CM, Jr., Sankaranarayanan K, Warinner CG. Comparison of extraction methods for recovering ancient microbial DNA from paleofeces. *Am J Phys Anthropol.* 2020;171(2):275-84. Epub 2019/12/01. doi: 10.1002/ajpa.23978. PubMed PMID: 31785113.
- 2019 Patel NB, Obregón-Tito AJ, Tito RY, Trujillo-Villaroel O, Marin-Reyes L, Troncoso-Corzo L, Guija-Poma E, Lewis Jr. CM, Lawson PA. *Citroniella saccharovorans gen. nov., sp. nov.* isolated from feces from a hunter-gatherer community in Peru. *Int J Syst Evol Microbiol.* 69(4):1142-1148. doi: 10.1099/ijsem.0.003287
- 2019\* Schnorr SL, Hofman C, Shandukani R, Duncan FD, Honap TA, Lesnik J, Lewis Jr. CM Taxonomic features and comparisons of the gut microbiome from two edible fungus-farming termites (*Macrotermes falciger*; *M. natalensis*) harvested in the Vhembe district of Limpopo, South Africa. *BMC Microbiology.* 17;19(1):164. doi: 10.1186/s12866-019-1540-5.
- 2018 Ziesemer KA, Ramos-Madriral J, Mann AE, Brandt B, Sankaranarayanan K, Ozga A, Hoogland M, Hofman C, Salazar-Garcia D, Frohlich B, Milner G, Stone AC, Aldenderfer M, Lewis Jr. CM, Hofman CL, Warinner C, Schroeder H. The efficacy of whole human genome and high-throughput sequencing on ancient dental calculus. *AJPA.* 2018, online. doi: 10.1002/ajpa.23763
- 2018 Mann AE, Sabin S, Ziesemer K, Vagene AJ, Schroeder H, Ozga AT, Sankaranarayanan K, Hofman CA, Fellows Yates JA, Salazar-Garcia DC, Frohlich B, Aldenderfer M, Hoogland M, Read C, Milner GR, Stone AC, Lewis CM, Jr., Krause J, Hofman C, Bos KI, Warinner C. Differential preservation of endogenous human and microbial DNA in dental calculus and dentin. *Sci Rep.* 2018,8(1):9822. doi: 10.1038/s41598-018-28091-9.2018
- 2018 McDonald D, Hyde E, Debelius JW, Morton JT, Gonzalez A, Ackermann G, Aksenov AA, Behsaz B, Brennan C, Chen Y, DeRight Goldasich L, Dorrestein PC, Dunn RR, Fahimipour AK, Gaffney J, Gilbert JA, Gogul G, Green JL,

- Hugenholtz P, Humphrey G, Huttenhower C, Jackson MA, Janssen S, Jeste DV, Jiang L, Kelley ST, Knights D, Kosciolk T, Ladau J, Leach J, Marotz C, Meleshko D, Melnik AV, Metcalf JL, Mohimani H, Montassier E, Navas-Molina J, Nguyen TT, Peddada S, Pevzner P, Pollard KS, Rahnavard G, Robbins-Pianka A, Sangwan N, Shorenstein J, Smarr L, Song SJ, Spector T, Swafford AD, Thackray VG, Thompson LR, Tripathi A, Vazquez-Baeza Y, Vrbanc A, Wischmeyer P, Wolfe E, Zhu Q, American Gut C, Knight R. American Gut: an Open Platform for Citizen Science Microbiome Research. *mSystems*. 2018,3(3). doi: 10.1128/mSystems.00031-18.
- 2017 Velsko IM, Overmyer KA, Speller C, Klaus L, Collins MJ, Loe L, Frantz LAF, Sankaranarayanan K, Lewis CM Jr, Martinez JBR, Chaves E, Coon JJ, Larson G, Warinner C. The dental calculus metabolome in modern and historic samples. *Metabolomics*. 2017,13(11):134. doi: 10.1007/s11306-017-1270-3. Epub 2017 Oct 3.
- 2016 Schnorr S, Sankaranarayanan K, Lewis CM, Warinner C. Insights into human evolution from ancient and contemporary microbiome studies. *Current Opinion in Genetics and Development* 41:14-26.
- 2016 Jeong, C, Ozga AT, Witonsky DB, Malmstrom H, Edlund H, Hofman CA, Hagan RW, Jakobsson M, Lewis CM, Aldenderfer MS, Di Rienzo A, Warinner C. Long-term genetic stability and a high-altitude East Asian origin for the peoples of the high valleys of the Himalayan arc. *PNAS*. 113(27), 7485–7490, doi: 10.1073/pnas.1520844113.
- 2016\* Ozga AT, Sankaranarayanan K, Tito RY, Obregon-Tito AJ, Foster M, Tallbull G, Spicer P, Warinner C, Lewis Jr. CM. Oral microbiome diversity among Cheyenne and Arapaho of Oklahoma Microbiome [MBIO-D-15-00067R1] doi: 10.1002/ajpa.23033.
- 2016 Patel NB, Tito RY, Obregón-Tito AJ, O'Neal L, Trujillo-Villaroel O, Marin-Reyes L, Troncoso-Corzo L, Guija-Poma E, Lewis CM Jr, Lawson PA. *Peptoniphilus cationiae* sp. nov. isolated from human fecal samples from a coastal traditional community in Peru. *Int J Syst Evol Microbiol*. 2016 Feb 23. doi: 10.1099/ijsem.0.000985. [Epub ahead of print]
- 2016 Ozga AT, Nieves-Colón MA, Honap T, Sankaranarayanan K, Hofman C, Milner G, Lewis CM, Stone AC, Warinner C. Successful enrichment and recovery of whole mitochondrial genomes from ancient human dental calculus. *American Journal of Physical Anthropology*, doi: 10.1002/ajpa.22960
- 2015 Ziesemer K, Mann A, Sankaranarayanan K, Schroeder H, Ozga A, Brandt B, Zaura E, Waters-Rist A, Hoogland M, Salazar-García DC, Aldenderfer M, Speller C, Hendy J, Weston D, MacDonald S, Thomas G, Collins M, Lewis C, Hofman C, and Warinner C. Intrinsic challenges in ancient microbiome reconstruction using 16S rRNA gene amplification. *Sci Rep*. 2015 Nov 13,5:16498. doi: 10.1038/srep16498.
- 2015 Warinner C, Lewis CM. Microbiome and health in past and present human populations. *American Anthropologist*, doi:10.1111/aman.12367.
- 2015\* Ozga, AT, Tito RY, Kemp BM, Matternes HB, Obregon-Tito A, Neal L, Lewis CM Jr. Origins of an Unmarked Georgia Cemetery using Ancient DNA Analysis. *Hum Biol*. 2015 Apr,87(2):109-21. doi: 10.13110/humanbiology.87.2.0109.

- 2015\* Sankaranarayanan K, Ozga AT, Warinner C, Tito RY, Obregon-Tito AJ, Xu J, Gaffney PM, Jervis LL, Cox D, Stephens L, Foster M, Tallbull G, Spicer P, Lewis CM. Gut microbiome diversity among the Cheyenne & Arapaho of Oklahoma. *Dec 21,25(24):3161-9*. doi: 10.1016/j.cub.2015.10.060. Epub 2015 Dec 6.
- 2015\* Obregon-Tito AJ, Tito RY, Metcalf J, Sankaranarayanan K, Clemente JC, Ursell LK, Zech Xu Z, Van Treuren W, Knight R, Gaffney PM, Spicer P, Lawson P, Marin-Reyes L, Trujillo-Villaruel O, Foster M, Guija-Poma E, Troncoso-Corzo L, Warinner C, Ozga AT, Lewis CM. Subsistence strategies in traditional societies distinguish gut microbiomes. *Nat Commun*. 2015,6:6505. doi: 10.1038/ncomms7505. PubMed PMID: 25807110, PMCID: 4386023.
- 2015\* Warinner C, Speller C, Collins MJ, Lewis CM, Jr. Ancient human microbiomes. *Journal of human evolution*. 2015. doi: 10.1016/j.jhevol.2014.10.016. PubMed PMID: 25559298.
- 2015 Patel NB, Tito RY, Obregón-Tito AJ, O'Neal L, Trujillo-Villaruel O, Marin-Reyes L, Troncoso-Corzo L, Guija-Poma E, Hamada M, Uchino Y, Lewis CM Jr, Lawson PA. *Ezakiella peruensis* gen. nov., sp. nov. isolated from human fecal sample from a coastal traditional community in Peru. *Anaerobe*. 2015 Apr,32:43-8. PubMed PMID: 25481562, PubMed Central PMCID: PMC4385473.
- 2015 O'Neal L, Obregón-Tito AJ, Tito RY, Ozga AT, Polo SI, Lewis CM Jr, Lawson PA. *Clostridium amazonense* sp. nov. an obligately anaerobic bacterium isolated from a remote Amazonian community in Peru. *Anaerobe*. 2015 Jun 26, PubMed PMID: 26123611.
- 2014 Cabana, GS, Lewis Jr CM, Tito RY, Covey AR, Cáceres AM, Castillo Pampas CL, De La Cruz AF, Durand D, Housman G, Hulsey BI, Iannacone GC, López PW, R Martínez, Á Medina, OO Dávila, KP Osorio Pinto, SI Polo Santillán, Domínguez PR, Rubel M, Smith HF, Smith SE, de Celis Massa VR, Lizárraga B, Stone AC. Population Genetic Structure of Traditional Populations in the Peruvian Central Andes and Implications for South American Population History. *Human Biology*. 86(3):147-165. Doi: 10.13110/humanbiology.86.3.0147 . PMID: 25836744
- 2014 Warinner C, Rodrigues JF, Vyas R, Trachsel C, Shved N, Grossmann J, Radini A, Hancock Y, Tito RY, Fiddyment S, Speller C, Hendy J, Charlton S, Luder HU, Salazar-Garcia DC, Eppler E, Seiler R, Hansen LH, Castruita JA, Barkow-Oesterreicher S, Teoh KY, Kelstrup CD, Olsen JV, Nanni P, Kawai T, Willerslev E, von Mering C, Lewis CM, Jr., Collins MJ, Gilbert MT, Ruhli F, Cappellini E. Pathogens and host immunity in the ancient human oral cavity. *Nature genetics*. 2014,46(4):336-44. doi: 10.1038/ng.2906. PubMed PMID: 24562188, PMCID: 3969750.
- 2014 Huttenhower C, Knight R, Brown CT, Caporaso JG, Clemente JC, Gevers D, Franzosa EA, Kelley ST, Knights D, Ley RE, Mahurkar A, Ravel J, The Scientists for Advancement of Microbiome Research, White O (2014). Advancing the Microbiome Research Community. *Cell* 159(2):227-230. <http://dx.doi.org/10.1016/j.cell.2014.09.022>, PMID: 25303518
- 2013 Schlebusch CM, Lewis CM, Jr., Vahter M, Engstrom K, Tito RY, Obregon-Tito AJ, Huerta D, Polo SI, Medina AC, Brutsaert TD, Concha G, Jakobsson M, Broberg K. Possible positive selection for an arsenic-protective haplotype in

- humans. *Environmental health perspectives*. 2013,121(1):53-8. doi: 10.1289/ehp.1205504. PubMed PMID: 23070617, PMCID: 3553437, PMCID: PMC4221798
- 2013 d'Alpoim Guedes J DC, R Flad, E Fosse, M Herzfeld, CCC Lamberg-Karlovsky, CM Lewis, M Liebmann, R Meadow, N Patterson, M Price, M Reiches, S Richardson, H Shattuck-Heidorn, J Ur, G Urton, C Warinner. Is Poverty in Our Genes? A Critique of Ashraf and Galor, "The 'Out of Africa' Hypothesis, Human Genetic Diversity, and Comparative Economic Development,". *Current Anthropology*. 2013,54(1):71-9. doi: 10.1086/669034.
- 2013\* Cleeland LM, Reichard MV, Tito RY, Reinhard KJ, Lewis CM, Jr. Clarifying Prehistoric Parasitism from a Complementary Morphological and Molecular Approach. *Journal of archaeological science*. 2013,40(7):3060-6. doi: 10.1016/j.jas.2013.03.010. PubMed PMID: 23645967, PMCID: 3640563.
- 2012\* Tito RY, Knights D, Metcalf J, Obregon-Tito AJ, Cleeland L, Najar F, Roe B, Reinhard K, Sobolik K, Belknap S, Foster M, Spicer P, Knight R, Lewis CM, Jr. Insights from characterizing extinct human gut microbiomes. *PloS one*. 2012,7(12):e51146. doi: 10.1371/journal.pone.0051146. PubMed PMID: 23251439, PMCID: 3521025.
- 2012\* Lewis CM, Jr., Obregon-Tito A, Tito RY, Foster MW, Spicer PG. The Human Microbiome Project: lessons from human genomics. *Trends in microbiology*. 2012,20(1):1-4. doi: 10.1016/j.tim.2011.10.004. PubMed PMID: 22112388, PMCID: 3709440.
- 2012 Human Microbiome Project C. Structure, function and diversity of the healthy human microbiome. *Nature*. 2012,486(7402):207-14. doi: 10.1038/nature11234. PubMed PMID: 22699609, PMCID: 3564958.
- 2012 Human Microbiome Project C. A framework for human microbiome research. *Nature*. 2012,486(7402):215-21. doi: 10.1038/nature11209. PubMed PMID: 22699610, PMCID: 3377744.
- 2011\* Tito RY, Belknap SL, 3rd, Sobolik KD, Ingraham RC, Cleeland LM, Lewis CM, Jr. Brief communication: DNA from early Holocene American dog. *American journal of physical anthropology*. 2011,145(4):653-7. doi: 10.1002/ajpa.21526. PubMed PMID: 21541929, PMCID: 3133791.
- 2010\* Lewis CM, Jr. Hierarchical modeling of genome-wide Short Tandem Repeat (STR) markers infers native American prehistory. *American journal of physical anthropology*. 2010,141(2):281-9. doi: 10.1002/ajpa.21143. PubMed PMID: 19672848.
- 2009\* Lewis CM. Difficulties in Rejecting a Local Ancestry with Mtdna Haplogroup Data in the South-Central Andes. *Lat Am Antiq*. 2009,20(1):76-90. PubMed PMID: WOS:000264921900005.
- 2008 Verrelli BC, Lewis CM, Jr., Stone AC, Perry GH. Different selective pressures shape the molecular evolution of color vision in chimpanzee and human populations. *Molecular biology and evolution*. 2008,25(12):2735-43. doi: 10.1093/molbev/msn220. PubMed PMID: 18832077, PMCID: 2721556.
- 2008\* Tito RY, Macmil S, Wiley G, Najar F, Cleeland L, Qu C, Wang P, Romagne F, Leonard S, Ruiz AJ, Reinhard K, Roe BA, Lewis CM, Jr. Phylotyping and functional analysis of two ancient human microbiomes. *PloS one*.

- 2008,3(11):e3703. doi: 10.1371/journal.pone.0003703. PubMed PMID: 19002248, PMCID: 2577302.
- 2008\* Lewis CM, Jr., Long JC. Native South American genetic structure and prehistory inferred from hierarchical modeling of mtDNA. *Molecular biology and evolution*. 2008,25(3):478-86. doi: 10.1093/molbev/msm225. PubMed PMID: 18222947.
- 2007\* Wang S, Lewis CM, Jakobsson M, Ramachandran S, Ray N, Bedoya G, Rojas W, Parra MV, Molina JA, Gallo C, Mazzotti G, Poletti G, Hill K, Hurtado AM, Labuda D, Klitz W, Barrantes R, Bortolini MC, Salzano FM, Petzl-Erler ML, Tsuneto LT, Llop E, Rothhammer F, Excoffier L, Feldman MW, Rosenberg NA, Ruiz-Linares A. Genetic variation and population structure in native Americans. *PLoS genetics*. 2007,3(11):e185. doi: 10.1371/journal.pgen.0030185. PubMed PMID: 18039031, PMCID: 2082466.
- 2007\* Lewis CM, Jr., Lizarraga B, Tito RY, Lopez PW, Iannacone GC, Medina A, Martinez R, Polo SI, De La Cruz AF, Caceres AM, Stone AC. Mitochondrial DNA and the peopling of South America. *Human biology*. 2007,79(2):159-78. PubMed PMID: 18027812.
- 2005\* Lewis CM, Jr., Tito RY, Lizarraga B, Stone AC. Land, language, and loci: mtDNA in Native Americans and the genetic history of Peru. *American journal of physical anthropology*. 2005,127(3):351-60. doi: 10.1002/ajpa.20102. PubMed PMID: 15584069.
- 2002 Monsalve MV, Stone AC, Lewis CM, Rempel A, Richards M, Straathof D, Devine DV. Brief communication: molecular analysis of the Kwaday Dan Ts'finchi ancient remains found in a glacier in Canada. *American journal of physical anthropology*. 2002,119(3):288-91. doi: 10.1002/ajpa.10116. PubMed PMID: 12365041.
- 2000 Lawson A, Lewis CM, and Birk JP. Why Do Students "Cook" Lab Data? A Case Study of the Tenacity of Misconceptions. *Journal of College Science Teaching*. 2000,29(3):191-8.

*Edited Volumes and Other Works:*

- 2020 Gaither, CA, Tito RY, Lewis Jr. CM, Culleton BJ, Perry GH, Kennett DJ, Krigbaum J, Sánchez VV, Tham TR, Mateos RD, Jordán RF, Quilter J. "An African Cranium," in ed. Jeffrey Quilter, Magdalena de Cao – An Early Colonial Town on the North Coast of Peru. *Papers of Peabody Museum of Archaeology and Ethnology*.
- 2019 Warinner C, Ozga A, Radini A, Sankaranarayanan K, Lewis CM. "Genetic and microscopic analysis of human dental calculus from Swift Water Place, Alaska," in Anderson D, Anderson W, eds., *Life at Swift Water Place, Alaska, at the Threshold of European Contact*. University of Alaska Press.
- 2013\* Lewis, CM, Jr and Tung TA, Considerations when sampling human osteological remains. In *The Dead Tell Tales: Essays in Honor of Jane E. Buikstra*, edited by B. Ó. Donnabháin and M. C. Lozada. Cotsen Institute of Archaeology, UCLA, Los Angeles, CA.
- 2012\* Lewis C., Spicer P, Human Microbiome Research and Indigenous Communities, Project. In: Nelson K. (Ed.) *Encyclopedia of Metagenomics*: SpringerReference. Springer-Verlag Berlin Heidelberg



- 2011\* Lewis, CM, "Techniques Utilized in Molecular Genetics", in Veeramah, K. (ed.), Introduction to Human Genetics: Fundamentals and latest advances, The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at <http://hstalks.com/bio>)
- 2007 Long, JC, Scott N, and Lewis, Jr CM, Race, Genetics, in Health. In *Encyclopedia of Race and Racism*. N.Watkins ed. Macmillan Library Reference.
- 2005\* Lewis, CM, Jr, and Stone AC, MtDNA Diversity at the Archaeological Site of Chen Chen in Perú. In *Biomolecular Archaeology: Genetic Approaches to the Past*. D.Reed ed. Proceedings from the 19<sup>th</sup> Annual Visiting Scholar Conference, Southern Illinois University Press.

## External Services

- 2019-2020 Planning committee An Examination of Emerging Bioethical Issues in Biomedical Research: A Workshop of the National Academies of Sciences, Engineering, and Medicine, Washington DC
- 2012-2018 "American Gut" Research Collaborator
- 2013-2016 Associate editor, *Human Biology* journal.
- 2009-2012 Human Microbiome Project Research Consortium member
- 2007 Committee member, American Association of Anthropological Genetics Award for Outstanding Student Presentation on Anthropological Genetics
- 2004 Consultant, "Mummy Autopsy", Atlantic Productions (Discovery)  
National Institutes of Health Panels:

### *Grant Reviewer:*

- National Institutes of Health - from 2016-present: CSR GVE, IRAP, NAL, ZRG1-PSE-N-07, NCI ZCA1-RPRB-Z (was continuous submission eligible from service 2018-2019)
- National Science Foundation Human Frontier Science Program

### *Journal Reviewer:*

- |   |  |
|---|--|
| Science                                   | Applied and Environmental Microbiology |
| American Journal of Physical Anthropology | Journal of Archaeological Science      |
| Current Anthropology                      | American Journal of Primatology        |
| Molecular Biology and Evolution           | Journal of Field Archaeology           |
| Biology Letters                           | PLoS ONE                               |
| Journal of Parasitology                   | Latin American Antiquity               |
| Annals of Human Genetics                  | Chungara                               |
| FEMS Microbiology Letters                 | Human Biology                          |
| Yearbook of Physical Anthropology         |  |

### *External Workshops*

- 2014 "SING" – Summer Internship for Native Americans in Genomics. Instructor. Austin, TX
- 2009-2013 Annual K-12 Continuing Education, Teaching Evolution Workshop (3 days)
- 2011 *Human Migrations, Evolution and Disease*, presented in the Society for the Study of Evolution EVO 101, 2011 Evolution (International Conference), Norman Oklahoma (1 day)
- 2010 DNA Lab Methods: Universidad Nacional del Altiplano, Puno, Peru (2 days)
- 2008 Human Evolution and Health Workshop, Universidad Nacional Mayor de San Marcos, Lima, Peru

## Services OU

- 2012-present Founding Director, Laboratories of Molecular Anthropology and Microbiome Research (LMAMR.ORG)
- 2009-2012 College of Arts and Sciences, Information and Technology committee member
- 2009-2015 Presenter & Organizer, Annual Continuing Education Workshop for K12 and Community College Teachers in Oklahoma
- 2012-2020 Chair, Center for Microbial and Anthropological Science
- 2007-2009 Celebrate Darwin 2009 Steering Committee Member, at Univ. of Oklahoma
- 2008-2009 Professionalization Workshops, Department of Anthropology, Univ. of Oklahoma
- 2007 Friends of the College of Art & Science lecture organizer, Univ. of Oklahoma

## Directing and Chairing

### *Graduate Students*

Alice Lee (PhD Chair 2022-present), Sarah Johnson (PhD Chair 2020-present), Jacob Haffner (PhD Chair, 2017-present), Justin Lund (PhD Chair 2014-2022), David Jacobson (PhD Chair 2014-2021), Abigail Gamble (MA Chair, 2018), Allison Mann (PhD Chair 2012-2018), Alexandra Tito (MA, PhD chair, 2007-2013), Lauren Cleeland (PhD Chair, 2008-2014), Andrew Ozga (PhD Chair, 2009-2015), Leslie Neal (MA Chair 2010-2012), Sarah Miller (MA Chair, 2012), Lauren O'Shea (MA 2012).

### *Postdocs, professional employees, long-term visiting scholars*

Hande Acar (2020-present)

Tanvi Honap (Research Faculty 2017-present)

Chris Abin (Lab Manager 2020-present)

Sharmily Khanam (Postdoc 2018-2020)

Stephanie Schnorr (Postdoc 2015-2017)

Krithi Sankaranarayanan (Postdoc 2013-2014, Research Professor 2014-2016)

Jiawu Xu (Research Scientists, 2013-2017)

Christina Warinner (Postdoc 2013-2014)

Raul Tito (Research Associate, 2007-2013)

Susan Polo (Peruvian Visiting Research Scholar, 2009-2010, 2012)

Angel Medina (Peruvian Visiting Research Scholar, 2009)

Dora Velasquez (Peruvian Visiting Research Scholar, 2010-2011)

Rossmery Ramos Quispe (Peruvian Visiting Research Scholar, 2011-2012)

Luis Javier Marin Reyes (Peruvian Visiting Research Scholar, 2013)

### *Undergraduate Interns*

Amina Shakir (2012-2013), Nisha Patel (2007-2011), Diana Wiedemann (2008), Blake Stamps (2008-2009), Sarah Whitten (2008), Ashesh Bhakta (2009), Nina K. Friedman (2009), Rossmery Pope (2014), Madeleine Lange (2017-2018), Hima Patel (2019-2020), Hanna Huston (2019-2020), Kendall Terry (2020-2022)

### *Highschool Interns*

Emma Foster (2013-2014), Olivia Rambo (2014-2015), Elizabeth Phillips (2016), Luca Fretwell (2021)

## Courses Taught

*Graduate (or advanced undergrad): taught at University of Oklahoma*

Introduction to Population Genetics, Analyzing Human Variation

*Undergraduate: taught at University of Oklahoma*

General Anthropology, Introduction to Biological Anthropology, Genetic Perspectives on Human Evolution

### **Professional Reports**

- 2005 Intercontinental to Intrasite Genetic Analyses of Ancient and Contemporary Native American Communities. PhD dissertation, University of New Mexico
- 2004 Lewis, CM, Jr, AC Stone, An Ancient Y-chromosome DNA Analysis of the Possible Remains of William Benjamin Bridger: Atlantic Productions and Discovery Communication's: Mummy Autopsy.
- 2004 Lewis, CM, Jr, Report on Ancient DNA from the YA1-59-1 Tooth Sample from the Archaeological Site of El Yaral, Perú.
- 2003 Lewis, CM, Jr, AC Stone, Forensic MtDNA Analysis of a Cochiti Pueblo Skeleton. Office of the Medical Investigator. Albuquerque, NM
- 2000 Lewis, CM, Jr, Skeletal Analysis Report for 40 individuals from the Archaeological Sites of Descanso and La Cruz, Ilo, Perú. Centro Mallqui, Ilo, Perú: 243.
- 1999 Lewis, CM, Jr, Skeletal Analysis Report for Quasar (#359) Skeletons. The Center for American Archeology, Kampsville, IL: 7.

### **Panels, Podiums, Posters, and Invited Lectures**

- 2022 Haffner, JJ, Katemauswa M, Kagone TS, Hossain E, Jacobson D, Flores K, Parab AR, Obregon-Tito AJ, Tito RY, Marin L, Reyes L, Troncoso-Corzo L, Guija-Poma E, Meda N, Carabin H, Honap TP, Sankaranarayanan K, Lewis Jr CM, McCall L. The Core Human Fecal Metabolome. Presented at the 91st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- 2022 Haffner, JJ, Mattson HV, Schleher KL, Hossain E, Gautham2,6, McCall LI, Lewis, Jr, CM. A New Approach to Organic Residue Analysis: Archaeological Metabolomics. Poster presented at the 87<sup>th</sup> Annual Meeting of the Society for American Archaeology, Chicago, IL.
- 2022 Honap TP, Monroe CR, Johnson SJ, Sankaranarayanan K, Levine M, Lewis, Jr, CM. Oral microbial ecologies reconstructed from pre-colonial era Wichita ancestors from North America provide insights into the global "silent epidemic" of oral disease. Presented at the 91st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- 2022 Johnson SJ, Honap TP, Lynch PA, Kennett DJ, Prufer KM, Lewis, Jr CM. Investigating the changes in oral microbial ecologies of ancestral Maya. Presented at the 91st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- 2022 Ozga AT, Honap T, Lewis, Jr, CM, Stone, AC. Whole genome capture of oral pathogenic bacteria from Great Ape dental calculus. Presented at the 91st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- 2021 Lewis, Jr. CM. What the Ancestral Microbiome Says About Antibiotic Resistance. Invited Speaker. Department of Anthropology, Vanderbilt University.

- Online.
- 2021 Lewis, Jr. CM. Schnorr S, Microbiome / Future Directions in Molecular Anthropology, Table Leader, Human Biology Association 2021 Virtual Conference.
- 2020 Khanam SS, Patel NB, O’Neil L, Obregon-Tito A, Tito R, Lawson P, Guija E, Troncoso L, Marin L, Warinner C, Lewis CM, Sankaranarayanan K. Genomic and phenotypic diversity of antibiotic resistant *Escherichia coli* isolated from the gut microbiome of non-industrial populations. Presented at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA
- 2020 Jacobson DK, Kagone TS, Meda N, Carabin H, Honap T, Sankaranarayanan K, Lewis, Jr. CM. Database bias hinders functional analysis of non-industrial populations’ gut microbiomes. Presented at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA
- 2020 Haffner JJ, David Jacobson D, Tanvi P Honap TP, Ekram Hossain E, Sankaranarayanan K, McCall L-I, Lewis, Jr. CM. Impact of Sample Collection Preparation on Metabolomic and Microbiome Profiles. Presented at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA
- 2020 Ozga AT, Huang PN, Honap TH, Lewis CM, Heidari A, Wang J, Kawai T, Vardar-Sengul S. Impact of probiotics on oral microbial ecosystems in dental implant patients. Presented at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA
- 2020 Haffner J, Mattson H, McCall L-I, Lewis Jr. CM. Archaeological Metabolomics: Residue Analysis and Mass Spectrometry. Poster presented at the 85th Annual Meeting of the Society for American Archaeology, Austin, TX
- 2020 Lewis, CM, Ancestral States of Human Microbiomes, Invited Speaker, Oklahoma State University. Department of Microbiology and Molecular Genetics. Online.
- 2019 Jacobson DK, Kagon TS, Meda N, Carabin H, Honap T, Sankaranarayanan K, Lewis CM, Jr. Gut microbiome community composition is significantly influenced by shared living space in rural agriculturalists from Burkina Faso. Podium presented at the 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH
- 2019 Nieves-Colon MA, Tito R, Lewis CM, Sandobal Mendoza CD, Bustamente CD, Wojcik GL, Gignoux C, Baker J, Fejerman L, Vidaurre T, Lizarraga B, Rubin de Celis V, Stone AC, Moreno-Estrada A. The Genomic Landscape of the Peruvian Andes. Poster presented at the 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH
- 2019 Sankaranarayanan L, Honap T, Schnorr S, Ozga A, Warinner C, Lewis CM, Jr. Biogeographic study of human gut associated crAssphage suggests impacts from industrialization and recent expansion. Poster presented at the 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH
- 2019 Lund J, Lewis CM, Jr. Disentangling and Disappropriating Science. Poster presented at the 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH
- 2019 Lewis, CM, Ancestral States of Human Microbiomes, Invited Speaker, University

- of New Mexico Department of Anthropology, Albuquerque, NM
- 2018 Lewis, CM, Ancestral States of Human Microbiomes, Invited Speaker, Arizona State University Center for Evolution and Medicine, Tempe, AZ
- 2018 Patel, N, Tito, R, Obregón-Tito, AJ, Trujillo-Villaroel, O, Marin-Reyes, L, Troncoso-Corzo, L, Guija-Poma, E, Lewis Jr, CM, Lawson, PA *Citroniella sacchavorans* gen nov sp nov isolated from the gastrointestinal tract of an indigenous Peruvian community Anaerobe, Las Vegas, NV
- 2018 Patel, N Lawson, PA, Lewis, CM, Sankaranarayanan, High-throughput screening for viable bacteria in fecal material using propidium monoazide K Anaerobe, Las Vegas, NV
- 2018 Patel, N Lawson, PA, Lewis, CM, Sankaranarayanan, High-throughput screening for viable bacteria in fecal material using propidium monoazide K ASM Microbe, Atlanta, GA
- 2017 Lewis, CM, Gut Microbiome Health and Health Disparities, Harold Hamm Diabetes Center Summit, Norman Oklahoma
- 2017 Lund J, Ketchum S, Spicer P, Cobb-Greetham A, Hiratsuka V, CM Lewis, Jr, The Center on the Ethics of Indigenous Genomic Research: Engaging Ethical, Legal, and Social Issues, 86th Annual Meeting of the American Association of Physical Anthropology, New Orleans, LA
- 2017 Jacobson DK, Sankaranarayanan K, Larson PS, Watanabe N, Lum JK, Lewis Jr, CM, Age is the primary factor structuring diversity of the oral microbiome. 86th Annual Meeting of the American Association of Physical Anthropology, New Orleans, LA
- 2017 Austin RM, Sankaranarayanan K, Warinner C, Lewis C Jr, A comparative analysis of wild non-human primate gut microbiomes, 86th Annual Meeting, New Orleans (American Association of Anthropological Geneticists Outstanding Trainee Poster)
- 2016 Lewis, CM, Race Genetics and Health, Phi Beta Kappa, annual Founder' Day Lecture, University of Oklahoma
- 2016 Lewis, CM, Human Microbiome and the Brain, Keynote speaker at University of West Virginia Neuroscience Retreat
- 2016 Ozga AT, Nieves- Colón MA, Honap TP, Sankaranarayanan K, Hofman CA, Milner G, Lewis CM, Stone AC, Warinner C Ancient dental calculus as a reservoir of whole human mitogenomes 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta, Georgia
- 2015 Warinner C, Sankaranarayanan K, Stoellner T, Ruehli F, Lewis CM An Empty Gut: The Recent Loss of our Microbial Symbionts 81st Annual Meeting of the Society for American Archaeology, Orlando, Florida
- 2015 Craig BL, Peck J, Xu J, Sankaranarayanan K, Warinner C, Hansen KR, Anderson M, Carabin H, Lewis CM Characterizing the semen microbiome and associations with semen parameters: the chasm study Annual Meeting of the American Society for Reproductive Medicine, Baltimore, Maryland
- 2015 Sankaranarayanan K, Ozga AT, Warinner C, Spicer P, Lewis CM Gut microbiome diversity among the Cheyenne and Arapaho Tribes of Oklahoma 40th Annual Meeting of the Human Biology Association, St Louis, Missouri
- 2015 Ozga AT, Sankaranarayanan K, Spicer P, Warinner C, Lewis CM Implications of

- oral microbiome diversity among the Cheyenne and Arapaho of Oklahoma 40th Annual Meeting of the Human Biology Association, St Louis, Missouri
- 2014 Lewis, CM, C Warinner, A Ozga, Human Microbiomes and Non-Traditional Molecular Archaeology Podium presented at the 2014 American Association of Anthropological Genetics Symposium, Calgary, Alberta
- 2013 Warinner, C, R Tito, J Rodrigues, R Vyas, C Speller, C Trachsel, J Grossmann, HU Luder, N Shved, C von Mering, F Rühli, E Cappellini, CM Lewis, Jr Extending oral and gut microbiome research into the human evolutionary past Human Microbiome Science: Vision for the Future Meeting, Bethesda, MD
- 2013 Ozga, A, RY Tito, CM Lewis, Jr, 1% Human, Podium presented at the 112<sup>th</sup> annual meeting of the American Anthropological Association, Chicago, IL
- 2013 Ozga, A, RY Tito, A Obregon-Tito, CM Lewis Jr Viromes and Anthropology, Podium presented at the 2013 Human Biology Association Annual Meeting, Knoxville, TN
- 2013 Lewis, CM Anthropological metagenomics and reconstructing the ancestral state of the human superorganism Invited Lecture, Department of Evolutionary Biology, Uppsala University, Uppsala, Sweden
- 2012 Gaither, CM, MS Murphy, J Quilter, CM Lewis, R Franco, Population Health in the Early Colonial Reducción of Magdalena de Cao Viejo, Podium presented at the 111th annual meeting of the American Anthropological Association, San Francisco, CA
- 2012 Lewis, CM, RY Tito, D Knights, J Metcalf, R Knight, AJ Obregon-Tito, LM Cleeland, PG Spicer, Characterizing Extinct Gut Microbiomes, Poster presented at the International Human Microbiome Congress, Paris, France
- 2012 Lewis, CM, HMP and Native Communities Panelist: Ethical, legal, and social implications (ELSI) of Human Microbiome Research, Houston, Texas
- 2012 Lawson, PA, L O'Neal, RY Tito, AO Tito, CM Lewis Jr Human Intestinal Microbial Ecologies of Indigenous Communities, Podium presented at Anaerobe 2012, San Francisco, CA
- 2012 Obregon-Tito, A, RY Tito, FD Duilio, P Spicer, CM Lewis, Genomic and Metagenomic Research with Peruvian Indigenous Communities, Podium presented at the 2012 American Association of Anthropological Genetics Symposium, Portland, OR
- 2012 Lewis, CM, M Jakobbson, RY Tito, Genome-Wide Markers and the Peopling of South America Podium presented at the 81st annual meeting of the American Association of Physical Anthropologists, Portland, OR
- 2012 Neal, LJ, RY Tito, CM Lewis, Human Remains from Avondale Burial Place provides successful genetic information for ancestry testing Podium presented at the Society for Historical Archaeology Conference, Baltimore, MD
- 2011 Cleeland, L, M Reichard, RY Tito, K Reinhard, CM Lewis, Complementary Morphological and Molecular Methodology in the Study of Prehistoric Parasitism Podium presented at the Palaeopathology Association Meeting in South America IV Conference, Lima, Peru
- 2011 Lewis, CM Jr, DNA and Tribal Membership, Language and Migration patterns Podium presented at The Sovereignty Symposium 2011, Oklahoma City, OK
- 2011 Lewis, CM Jr, A Next Generation of ELSI Research: The Human Microbiome

- Project Panelist: 2011 Ethical, Legal Social Implications Congress, Chapel Hill, NC
- 2011 Lewis, CM Jr, National and International Perspectives on Community-Based and Community Engaged ELSI Research Panelist: Ethical, Legal Social Implications Congress, Chapel Hill, NC
- 2011 Obregon-Tito, A, RY Tito, P Spicer, CM Lewis, Jr, Community Engagement of Peruvian Indigenous Communities: Challenges and Opportunities Poster presented at the Ethical, Legal Social Implications Congress, Chapel Hill, NC
- 2011 Ozga, A, CM Lewis, A Obregon, R Tito, M Foster, L Stephens, D Warren Analysis of TCF7L2, a Candidate Gene for Type 2 Diabetes, in Oklahoma American Indians Podium presented at the 80th annual meeting of the American Association of Physical Anthropologists, Minneapolis, MN
- 2011 Lewis, CM, RY Tito A Obregon-Tito P Spicer Challenges in the Study of Extinct Microbiomes Podium and Poster presented at the International Human Microbiome Congress, Vancouver BC
- 2010 Tito, RY, A Obregón, A Ozga, CM Lewis, Human Microbiomes Past and Present Podium presented at the 109th annual meeting of the American Anthropological Association, New Orleans, LA
- 2010 Ozga, A, A Obregón A, RY Tito, CM Lewis, Human Microbiomes and Engaging Indigenous Communities Podium presented at the 109th annual meeting of the American Anthropological Association, New Orleans, LA
- 2010 Spicer P, CM Lewis, A Tito, R Tito, AC Medina Engaging Indigenous Communities in the HMP Poster presented at the 2010 Human Microbiome Research Conference, St Louis, MO
- 2010 Lewis, CM, RY Tito, AT Ozga, SI Polo, LD Velásquez, AO Tito, MM Soberón Lozano, J Zhou, P Lawson, PG Spicer Human Microbiomes from Remote Native South American Communities Poster presented at the 2010 Human Microbiome Research Conference, St Louis, MO
- 2009 Obregón, A, R Tito, L Williamson, and CM Lewis, Deep sequencing APOE in an African American population: Implications for Genetic Testing Poster presented at the 28th Annual education conference, National Society of Genetic Counselors, Atlanta, GA (Candidate, best poster award)
- 2009 Tito, RY and Lewis, CM Jr, From Coprolites to Ancient Human Microbiomes Poster presented at the 78th annual meeting of the American Association of Physical Anthropologists, Chicago, IL
- 2009 Obregón, A, R Tito, D Sanghera, and CM Lewis Jr, Deep Sequencing APOE to Identify Population-Specific Haplotypes in African Americans Poster presented at the 34th Annual Graduate Research Education and Technology Symposium, University of Oklahoma Health Sciences Center, Oklahoma City, OK (Winner: Sigma Xi, poster award)
- 2009 Lewis, CM Jr, What Does DNA Have to Contribute to Anthropology? *Invited Lecture*, at the Annual Conference of the Oklahoma Society of Community Colleges, Midwest City, OK
- 2009 Lewis, CM Jr, The Practical Importance of Native American Population Genetics *Invited Lecture*, at the Johnson Humrickhouse Museum symposium Questions, New Science: Reinterpreting Native American origins in the light of modern

- methods and technology, Coshocton, OH
- 2008 Lewis, CM Jr, Archaeological and Ethnohistoric Contributions to Understanding Human Genetic Variation in the South Central Andes, Podium presented at the 27<sup>th</sup> Northeast Conference on Andean Archaeology and Ethnohistory, Bangor, ME
- 2008 Lewis, CM Jr and Cleeland, L First Contact: The Archaeologist's Role in Ancient DNA Investigations Podium presented at the 73<sup>rd</sup> annual meeting of the Society for American Archaeology, Vancouver, BC
- 2008 JC Long, CM Lewis Jr, J Li, R Malhi, K Hunley, Allelic Variability and Tests for Natural Selection at the Human ALDH2 Locus, Podium presented at the 77<sup>th</sup> annual meeting of the American Association of Physical Anthropologists, Columbus, OH
- 2007 Cleeland, L and CM Lewis Jr, Ancient DNA on the Front Line: The Archaeologist's Place in Ancient DNA Research Podium presented at the 65<sup>th</sup> Annual Plains Anthropological Conference, Rapid City, South Dakota
- 2007 Lewis, CM, Jr, South American Genetic Variation and Origins Invited Lecture, University of Maine, Orno, Maine
- 2007 Lewis, CM, Jr, A New Model for Native South American Genetic Variation and Origins Invited Lecture, Vanderbilt University, Nashville, Tennessee
- 2006 Lewis, CM, Jr, and JC Long, A New Model for South American Origins and Diversity Inferred from Hierarchical Modeling of mtDNA Variation Podium presentation at the American Society of Human Genetics 56<sup>th</sup> annual meeting, New Orleans, Louisiana
- 2006 Long, JC, CM Lewis, J Li, RS Malhi, K Hunley Allelic Variability and Tests for Natural Selection at the Human ALDH2 Locus Poster presented at the American Society of Human Genetics 56<sup>th</sup> annual meeting, New Orleans, Louisiana
- 2006 Lewis, CM, Jr, and JC Long, Native South American Prehistory Inferred from Hierarchical Modeling of MtDNA Data Poster presented at the 50<sup>th</sup> Anniversary and Symposium for the Department of Human Genetic at the University of Michigan, Ann Arbor, Michigan
- 2006 Lewis, CM, Jr, and JC Long, Generalized Hierarchical Modeling and the Peopling of South America Podium presented at the 75<sup>th</sup> annual meeting of the American Association of Physical Anthropologists, Anchorage, Alaska
- 2006 Lewis, CM, Jr, AK Wilbur, JE Buikstra, Genetic Continuity of Prehistoric and Contemporary Communities in the South Central Andes Supported by Mitochondrial DNA Podium presented at the 71<sup>st</sup> Annual Meeting of the Society for American Archaeology San Juan, Puerto Rico
- 2005 Lewis, CM, Jr, JE Buikstra, AC Stone, Gene Flow and the Andes: Tests of Migration at the Archaeological Site of Chen Chen Podium presented at the 74<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology, Milwaukee, Wisconsin
- 2005 Verrelli, B, CM Lewis, and AC Stone, Contrasting Evolutionary Histories at Human and Chimpanzee G6PD and OPN1LW genes Podium presented at Society of Molecular Biology and Evolution meetings, Auckland, New Zealand
- 2005 Stone, AC, GS Cabana, RY Tito, PW Lopez, GC Iannacone, CM Lewis, B Lizarraga, Population Structure and History in Peru Podium presented at the 74<sup>th</sup>



- Annual Meeting of the American Association of Physical Anthropology, Milwaukee, Wisconsin
- 2005 Cabana, GS, CM Lewis, AC Stone, Inference of Population Hhistory from DNA Haplogroup Frequencies Using Computer Simulation Modeling Podium presented at the 74<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology, Milwaukee, Wisconsin
- 2004 Lewis, CM, Jr, AC Stone, MtDNA Diversity at the Archaeological Site of Chen Chen, Perú: Implication for Andean Genetic History Podium presented at the 69<sup>th</sup> Annual Meeting of the Society for American Archaeology, Montreal, Canada
- 2003 Lewis, CM, Jr, Analysis of Closely Related Species Podium presented at the Universidad de Ricardo Palma, Lima, Peru
- 2002 Lewis, CM, Jr, L Salter, R Tito, B Lizárraga, AC Stone, Migraciones de las Poblaciones Andinas Reveladas por ADN Mitocondrial (mtDNA) Podium presented at the Universidad Nacional Mayor de San Marcos, Lima, Perú
- 2002 Stone, AC, J Benn, AK Wilbur, H Lin, CM Lewis, E Trudeau, J Feurstein, and M Hammer, Chimpanzee Population Structure and History from Y chromosome and mtDNA Data Podium presented at Human Origins and Disease Conference, Cold Spring Harbor Laboratory, New York
- 2002 Stone, AC, J Benn, AK Wilbur, H Lin, CM Lewis, E Trudeau, J Feurstein, and M Hammer, Population Structure and History of *Pan* from Y chromosome and mtDNA Data Podium presented at Society of Molecular Biology and Evolution meetings, Sorrento, Italy
- 2002 Lewis, CM, Jr, L Salter, R Tito, B Lizárraga, AC Stone, An Investigation of Genetic, Linguistic, and Geographical Distance in American Indians Using Multivariate and Phylogenetic Procedures: Contributions from Ancash, Perú and the Introduction of POML Paper presented at the 71<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology, Buffalo, New York
- 2002 Lewis, CM, Jr, and AC Stone, A Molecular Genetic Study of the Prehistoric Tiwanaku Colony of Chen Chen: Implications for the Genetic Relationships of Tiwanaku Peoples and the Peopling of South America Poster presented at the 67<sup>th</sup> Annual Meeting of the Society for American Archaeology, Denver, Colorado
- 2000 Stone, AC, MR Bonner, CM Lewis, and M Hammer, What subspecies are they? Mitochondrial DNA and Y Chromosome Diversity in Captive *Pan troglodytes* Podium presented at the American Association of Physical Anthropologists meeting, San Antonio, Texas
- 2001 Monsalve, MV, AC Stone, CM Lewis, A Rempel, M Richards, D Strathoff, DV Devine, Molecular Analysis of the Kwaday Dän Sinchi Ancient Remains Found in a Glacier in Canada Poster presented at the IV World Congress of Mummy Studies, Nuuk, Greenland
- 2001 Stone, AC, CM Lewis, J Grutt, M Hammer, *Pan troglodytes* and *Pan paniscus* Diversity: Results from the Y Chromosome Poster presented at the 70<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology, Kansas City, Missouri
- 2001 Davidson, E, HE Cate, CM Lewis, M Hunter, Data Manipulation in the Undergraduate Classroom: What are We Teaching? Podium presented at the

- 2000 ORI RRI Conference Proceedings, Washington DC  
Stone, AC , R Bonner, CM Lewis, M Hammer, What Subspecies are They?  
Mitochondrial DNA and Y Chromosome Diversity in Captive *Pan troglodytes*  
Poster presented at the 69<sup>th</sup> Annual Meeting of the American Association of  
Physical Anthropology, San Antonio, Texas
- 1999 Lewis, CM, Jr, Integrating Darwinian Archaeology: A Biological Perspective  
Podium presented at the 64<sup>th</sup> Annual Meeting of the Society for American  
Archaeology, Chicago, Illinois

### **Professional Affiliations**

American Anthropological Association, American Society of Microbiology, American Association of Physical Anthropologists, Society for American Archaeology, American Society of Human Genetics