



2006-07 Faculty Fellowship, Social Sciences Research Institute, Duke University  
 2005 Thomas Langford Lectureship Award, Duke University  
 1997-98 Bunting Institute of Radcliffe College, Burroughs-Wellcome Biomedical Research Fellowship  
 1994-97 Junior Fellowship, Society of Fellows, Harvard University  
 1993-94 NIH National Research Service Award Post-doctoral Fellowship, University of Chicago  
 1993 Best Student Paper Award, Annual Meeting of the American Society of Primatologists  
 1992 Department of Ecology and Evolution Award for Outstanding Performance in the General Field, University of Chicago  
 1992 William Rainey Harper Dissertation Fellowship, University of Chicago  
 1987-9 Searle Fellowship, University of Chicago  
 1983-5 Thomas J. Watson Foundation Fellowship for Research and Travel Abroad

**RESEARCH SUPPORT SINCE 2001** (grants to students such as NSF DDIG grants, and internal Duke awards are not included)

2022-24 NIA R61AG078470, "Developing insertable cardiac monitors to assess social and environmental effects on the autonomic stress response in a nonhuman primate model of aging." Alberts is PI on a subaward to Duke, main award is to University of Notre Dame.

2021-26 NIA R01-AG071684, "A life course perspective on gut microbiome aging and health in a non-human primate model." Alberts is PI on a subaward to Duke, main award is to University of Notre Dame.

2019-23 NSF IOS-1926060, "Collaborative Research: Competition within and between primate social groups: Hormonal and behavioral Signatures." Role: PI (with A.C. Markham, Stony Brook University).

2018-23 NIA R01AG053308, "The biodemography of early adversity: social behavioral processes in a wild animal model." Role: PI.

2017-22 Subaward on NIA R01 AG053330, "A life course perspective on the effects of cumulative early adversity on health." Alberts is co-PI on a subaward to Duke, main award to University of Notre Dame. Role: PI of Subaward.

2016-21 NIA P01AG031719, "The male-female health-survival paradox and the social environment." This represents one of three projects in this Program Project, entitled "Demography of Sex Differences in Health and Survival." Role: PL of Project 3.

2015-21 NSF IOS-1456832, "LTREB Renewal: Life history and behavior in a primate hybrid zone." Role: PI.

2014-15 NIA R21 AG049936, "Epigenetic Consequences of Social Status across the Life Span in a Primate Model." With J. Tung (PI), Duke. Role: Co-PI.

2013-15 NIA R03 AG045459, "Novel integration of multidimensional data from an emerging model of aging," with J. Tung (PI), Duke. Role: Co-PI.

2009-15 NIA R01 AG034513, "Mechanisms and consequences of social connectedness in a wild primate population," Role: PI.

2009-15 NSF IOS-0919200 – "LTREB: Long-term behavioral and genetic analyses of a wild primate population." Role: PI.

2009-15 NIA P01 AG031719, "Sex differences in health and survival in a wild primate population." This represents one of three projects in this Program Project, entitled "Demography of Sex Differences in Health and Survival." Role: PL of Project.

- 2009-13 NSF DEB-0846286, "Collaborative Research: Genes, Environment and Gene Expression in a Wild Primate Population." With G. Wray, Duke and J. Altmann, Princeton. Role: PI.
- 2007-09 NESCent (**N**ational **E**volutionary **S**ynthesis **C**enter) Working Group: "Evolutionary Ecology of Primate Life Histories." Led working group of 10 people with K. Strier, University of Wisconsin.
- 2003-09 NSF BCS-0323553, "Collaborative research: Life in a changing environment." Role: PI (with J. Altmann, Princeton University).
- 2003-06 NSF IBN-0322613 "Collaborative research: Relationship among demographic, social and genetic structure", Role: PI (with J. Altmann, Princeton University).
- 2001-06 NSF IBN-0091612, "Career: Social behavior and genetics in a fission-fusion society". Role: PI.

#### PUBLICATIONS

- In press DNA methylation signatures of early life adversity are exposure-dependent in wild baboons. Anderson JA, Lin D, Lea AJ, Johnston RA, Voyles T, Akinyi MY, Archie EA, Alberts SC, Tung J. **Proceedings of the National Academy of Sciences, USA**.
- 2023 Environmental, sex-specific and genetic determinants of infant social behaviour in a wild primate. Lange EC, Griffin M, Fogel AS, Archie EA, Tung J, Alberts SC. **Proceedings of the Royal Society B** 290: 20231597. <https://doi.org/10.1098/rspb.2023.1597>
- Early life drought predicts components of adult body size in wild female baboons. Levy EJ, Lee A, Siodi IL, Helmich EC, McLean EM, Malone EJ, Pickard MJ, Ranjithkumar R, Tung J, Archie EA, Alberts SC. **American Journal of Biological Anthropology** 182:357–371. DOI: 10.1002/ajpa.24849
- Social and early life determinants of survival from cradle to grave: a case study in wild baboons. Tung J, Lange EC, Alberts SC, Archie EA. **Neuroscience and Biobehavioral Review** 152:105282. <https://doi.org/10.1016/j.neubiorev.2023.105282>
- Genetic variance and indirect genetic effects for affiliative social behavior in a wild primate. McLean EM, Moorad JA, Tung J, Archie EA, Alberts SC. **Evolution** 77(7): 1607-1621. <https://doi.org/10.1093/evolut/qpaa066>
- Early life adversity and adult social relationships have independent effects on survival in a wild primate. Lange EC, Zeng S, Campos FA, Li F, Tung J, Archie EA, Alberts SC. **Science Advances** 9(20): eade7172. DOI: 10.1126/sciadv.ade7172
- Five decades of data yield no support for adaptive biasing of offspring sex ratio in wild baboons. Zippel MN, Archie EA, Tung J, Mututua RS, Warutere JK, Siodi IL, Altmann J, Alberts SC. **American Naturalist** 202(4):383-398. <https://doi.org/10.1086/725886>
- Universal gut microbial relationships in the gut microbiomes of wild baboons. Roche KE, Björk JR, Dasari MR, Grieneisen L, Jansen D, Gould TJ, Gesquiere LR, Barreiro LB, Alberts SC, Blekhman R, Gilbert JA, Tung J, Mukherjee S, Archie EA. **eLife** 12: e83152. <https://doi.org/10.7554/eLife.83152>

- Ecology and age, but not genetic ancestry, predict fetal loss in a wild baboon hybrid zone. Fogel AS, Oduor PO, Nyongesa AW, Kimwele CN, Alberts SC Archie EA, Tung J. **American Journal of Biological Anthropology** 180: 618-632. <https://doi.org/10.1002/ajpa.24686>
- 2022 Troubled waters: Water availability drives human-baboon encounters in a protected, semi-arid landscape. Paietta E, Obanda V, Weibel C, Jansen D, Mututua RS, Siodi IL, Warutere JK, Gesquiere LR, Alberts SC, Archie EA. **Biological Conservation** 274:109740. <https://doi.org/10.1016/j.biocon.2022.109740>.
- Patterns and consequences of age-linked change in local relatedness in animal societies. Samuel Ellis, Rufus A. Johnstone, Michael A. Cant, Daniel W. Franks, Michael N. Weiss, Susan C. Alberts, Kenneth C. Balcomb, Claire H. Benton, Lauren J. N. Brent, Catherine Crockford, Eve Davidian, Richard J. Delahay, David K. Ellifrit, Oliver P. Höner, Magali Meniri, Robbie A. McDonald, Hazel J. Nichols, Faye J. Thompson, Linda Vigilant, Roman M. Wittig, Darren P. Croft. **Nature Ecology and Evolution** 6(11): 1766-1776. <https://doi.org/10.1038/s41559-022-01872-2>
- Selection against admixture and gene regulatory divergence in a long-term primate field study. Vilgalys TP, Fogel AS, Anderson JA, Mututua RS, Warutere JK, Siodi IL, Yoon S, Voyles TN, Robinson JA, Wall JD, Archie EA, Alberts SC, Tung J. **Science** 377(6606): 635-642. <https://www.science.org/doi/10.1126/science.abm4917>
- Synchrony and idiosyncrasy in the gut microbiome of wild primates. Björk JR, Dasari M, Roche K, Grieneisen L, Gould TJ, Grenier J-C, Yotova V, Gottel N, Jansen D, Gesquiere LR, Gordon JB, Learn NH, Wango TL, Mututua RS, Warutere JK, Siodi L, Mukherjee S, Barreiro LB, Alberts SC, Gilbert JA, Tung J, Blekman R, Archie EA. **Nature Ecology and Evolution**. 6: 955-964. <https://www.nature.com/articles/s41559-022-01773-4>
- Genetic variance in fitness indicates rapid contemporary adaptive evolution in wild animals. Timothée Bonnet, Michael B. Morrissey, Pierre de Villemereuil, Susan C. Alberts, Peter Arcese, Liam Bailey, Stan Boutin, Patricia Brekke, Lauren J. N. Brent, Glauco Camenisch, Anne Charmantier, Tim H. Clutton-Brock, Andrew Cockburn, David W. Coltman, Alexandre Courtiol, Eve Davidian, Simon R. Evans, John G. Ewen, Marco Festa-Bianchet, Christophe de Franceschi, Lars Gustafsson, Oliver P. Höner, Thomas M. Houslay, Lukas F. Keller, Marta Manser, Andrew G. McAdam, Emily McLean, Pirmin Nietlisbach, Helen L. Osmond, Josephine M. Pemberton, Erik Postma, Jane M. Reid, Alexis Rutschmann, Anna W. Santure, Ben C. Sheldon, Jon Slate, Céline Teplitsky, Marcel E. Visser, Bettina Wachter, Loeske E.B. Kruuk. **Science** 376, 1012-1016.
- Female reproductive aging in seven primate species: patterns and consequences. Campos FA, Altmann J, Archie EA, Cords M, Fedigan LM, Lawler R, Stoinski TS, Strier KB, Bronikowski AM, Pusey AE, Alberts SC. **Proceedings of the National Academy of Sciences, USA** 119: e2117669119. <https://doi.org/10.1073/pnas.2117669119>
- Causal mediation analysis for longitudinal mediators and survival outcomes. Zeng S, Lange EC, Archie EA, Campos FA, Alberts SC, Li F. **Journal of Agricultural, Biological, and Environmental Statistics**. <https://doi.org/10.1007/s13253-022-00490-6>
- Mechanisms of inbreeding avoidance in a wild primate. Galezo AA, Nolas MA, Fogel AS, Mututua RS, Warutere JK, Siodi IL, Altmann J, Tung J, Archie EA, Alberts SC. **Current Biology** 32: 1607-1615.e4. <https://doi.org/10.1016/j.cub.2022.01.082>

- Automated, high-throughput image calibration for parallel-laser photogrammetry. Richardson J\*, Levy EJ\*, Ranjithkumar R, Monson E, Yang H, Galbany J, Conin A, Robbins MM, Alberts SC, Reeves M, McFarlin SC. \*Indicates equal contribution. **Mammalian Biology** 102 (3): 615-627. <https://doi.org/10.1007/s42991-021-00174-7>
- Distinct gene regulatory signatures of dominance rank and social bond strength in wild baboons. Anderson J, Lea AJ, Voyles T, Akinyi MY, Nyakundi R, Ochola L, Omondi M, Nyundo F, Zhang Y-Y, Campos FA, Alberts SC, Archie EA, Tung J. **Philosophical Transactions of the Royal Society Series B**. 377: 20200441. <https://doi.org/10.1098/rstb.2020.0441>
- 2021 Better baboon breakups: Collective decision theory of complex social network fissions. Lerch BA, Archie EA, Abbott KC, Alberts SC. **Proceedings of the Royal Society Series B**. 288: 20212060. <https://doi.org/10.1098/rspb.2021.2060>
- The long lives of primates and the ‘invariant rate of aging’ hypothesis. Colchero F, Aburto JM, Archie EA, Boesch C, Breuer T, Campos FA, Collins A, Conde D, Cords M, Crockford C, Emery Thompson M, Fedigan LM, Lawler RR, Lewis RJ, Machanda ZP, Mangeutte ML, Muller MN, Packer C, Parnell RJ, Perry S, Pusey AE, Robbins MM, Seyfarth RM, Silk JB, Staerk J, Stoinski TS, Stokes EJ, Strier KB, Strum SC, Tung J, Villavicencio F, Wittig RM, Wranghama RW, Zuberbühler K, Vaupel JW, Alberts SC. **Nature Communications** 12: 3666. DOI: [10.1038/s41467-021-23894-3](https://doi.org/10.1038/s41467-021-23894-3)
- Gut microbiome heritability is near-universal but environmentally contingent. Grieneisen L, Dasari M, Gould TJ, Björk JR, Grenier J-C, Yotova V, Jansen DAWAM, Gottel N, Gordon JB, Learn NH, Gesquiere LR, Wango TL, Mututua RS, Warutere JK, Siodi L, Gilbert JA, Barreiro LB, Alberts SC, Tung J, Archie EA\*, Blekhman R\*. **Science** 373:181-186. \*Indicates equal contribution. DOI: [10.1126/science.aba5483](https://doi.org/10.1126/science.aba5483).
- Genetic ancestry predicts male-female affiliation in a natural baboon hybrid zone. Fogel AS, McLean EM, Archie EA, Altmann J, Alberts SC, Tung J. **Animal Behaviour** 180: 249-268. DOI: [10.1016/j.anbehav.2021.07.009](https://doi.org/10.1016/j.anbehav.2021.07.009)
- Causal mediation analysis for sparse and irregular longitudinal data. Zeng S, Rosenbaum S, Alberts SC, Archie EA, Li F. **Annals of Applied Statistics** 15(2): 747-767.
- Glucocorticoid exposure predicts survival in female baboons. Campos FA, Archie EA, Gesquiere LR, Tung J, Altmann J, Alberts SC. **Science Advances** 7(17): eabf67589. DOI: [10.1126/sciadv.abf6759](https://doi.org/10.1126/sciadv.abf6759)
- High social status males experience accelerated epigenetic aging in wild baboons. Anderson JA, Johnston RA, Lea AJ, Voyles TN, Akinyi MY, Alberts SC, Archie EA, Tung J. **eLife** 10: e66128. DOI: [10.7554/eLife.66128](https://doi.org/10.7554/eLife.66128)
- Maternal Death and Offspring Fitness in Wild Primates. Zippel MN, Altmann J, Campos FA, Cords M, Fedigan LM, Lawler RR, Lonsdorf EV, Perry S, Pusey AE, Stoinski TS, Strier KB, Alberts SC. **Proceedings of the National Academy of Sciences, USA** 118: e2015317118 (Direct submission). DOI: [10.1073/pnas.2015317118](https://doi.org/10.1073/pnas.2015317118)
- 2020 Higher dominance rank is associated with lower glucocorticoids in wild female baboons: A rank metric comparison. Levy EJ, Gesquiere LR, McLean E, Franz M, Warutere JK, Sayialel SN, Mututua RS,

Wango TL, Oudu VK, Altmann J, Archie EA, Alberts SC. **Hormones and Behavior** 125: 104826. DOI: 10.1016/j.yhbeh.2020.104826

Accelerated reproduction is not an adaptive response to early life adversity in wild baboons. Weibel C, Tung J, Altmann J, Alberts SC, Archie EA. **Proceedings of the National Academy of Sciences, USA** <https://doi.org/10.1073/pnas.2004018117>. (Direct submission) **Winner of the 2021 Omenn Prize from the International Society of Evolutionary Medicine and Public Health.**

Social bonds, social status, and survival in wild baboons: A tale of two sexes. \*Campos FA, \*Villavicencio F, Archie EA, Colchero F, Alberts SC. **Philosophical Transactions of the Royal Society** 375: 20190621 \*Indicates equal contributions.

A comparison of dominance rank metrics reveals multiple competitive landscapes in an animal society. Levy EJ\*, Zippel MN\*, McLean EM, Campos FA, Dasari M, Fogel A, Franz M, Gesquiere LR, Gordon JB, Grieneisen L, Habig B, Jansen DAWAM, Learn NH, Weibel C, Altmann J, Alberts SC, Archie EA. **Proceedings of the Royal Society of London B** 207: 20201013. DOI: 10.1098/rspb.2020.1013 \*Indicates equal contributions.

Social bonds do not mediate the relationship between early adversity and adult glucocorticoids in wild baboons. Rosenbaum S, Zeng S, Campos FA, Gesquiere L, Altmann J, Alberts SC, Li Fan, Archie EA. **Proceedings of the National Academy of Sciences, USA** 117(33): 20052-20062 (Contributed submission). DOI: 10.1073/pnas.2004524117

Social determinants of health and survival in humans and other animals. Snyder-Mackler N, Burger JR, Gaydosh L, Belsky D, Noppert GA, Campos FA, Bartolomucci A, Yang YC, Aiello AE, O'Rand A, Harris KM, Shively CA, Alberts SC, Tung J. **Science** 368(6493): eaax9553.

Non-invasive measurement of mucosal immunity in a free-ranging baboon population. Gesquiere LR, Habig B, Li A, Freid K, Hansen C, Learn NH, Alberts SC, Graham AL, Archie EA. **American Journal of Primatology** 82:e23093. DOI:10.1002/ajp.23093

2019 The Natural History of Model Organisms: Insights into the evolution of social systems and species from baboon studies. **eLife** 8:e50989. Fischer J, Higham JP, Alberts SC, Barrett L, Beehner JC, Bergman TJ, Carter AJ, Collins A, Elton S, Fagot J, Ferreira da Silva MJ, Hammerschmidt K, Henzi P, Jolly CJ, Knauf S, Kopp GH, Rogers J, Roos C, Ross C, Seyfarth RM, Silk J, Snyder-Mackler N, Städele V, Swedell L, Wilson ML, Zinner D. DOI: 10.7554/eLife.50989

Lifetime fitness in wild baboons: tradeoffs and individual heterogeneity in quality. **American Naturalist** 194(6) 745-759. McLean EM, Archie EA, **Alberts SC**. DOI: 10.1086/705810

Multi-scale predictors of parasite risk in wild male savanna baboons (*Papio cynocephalus*). Habig B, Jansen DAWAM, Akinyi MY, Gesquiere LR, **Alberts SC**, Archie EA. **Behavioral Ecology and Sociobiology** 73(10): 134. DOI: 10.1007/s00265-019-2748-y

Intergenerational effects of early adversity on survival in wild baboons. Zippel MN, Archie EA, Tung J, Altmann J, **Alberts SC**. **eLife** 8:e47433. DOI: 10.7554/eLife.47433

Genes, geology, and germs: gut microbiota across a primate hybrid zone are explained by site soil properties, not host species. **Proceedings of the Royal Society Series B** **286(1901)**: 20190431. Grieneisen LE, Charpentier MJE, Alberts SC, Blekman R, Bradburd G, Tung J, Archie EA. <https://doi.org/10.1098/rspb.2019.0431>.

- Male-mediated pregnancy termination: function and mechanism. **Evolutionary Anthropology** 28(3):114-125. Zipple M, Roberts EK, **Alberts SC**, Beehner JC.
- Costs and drivers of helminth parasite infection in wild female baboons. **Journal of Animal Ecology** 88:1029-1043. Akinyi MY, Jansen D, Habig B, Gesquiere LR, **Alberts SC**, Archie EA. DOI: 10.1111/1365-2656.12994
- Invited Synthesis: Social influences on variation in survival and reproduction: Insights from a long-term study of wild baboons. **Journal of Animal Ecology** 88: 47-66. **Alberts SC**. DOI: 10.1111/1365-2656.12887
- Dominance rank-associated gene expression is widespread, sex-specific, and a precursor to high social status in wild male baboons. **Proceedings of the National Academy of Sciences, USA** 115 (52): E12163–E1217. Lea AJ, Akinyi-Matindi, AY, Nyakundi R, Mareri P, Nyundo F, Kariuki T, Alberts SC, Archie EA, Tung J.
- The diversity of population responses to environmental change. **Ecology Letters** 22(2): 342-353. Colchero F, Jones OR, Conde DA, Hodgson D, Zajitschek F, Schmidt BF, Malo AF, Alberts SC, Becker P, Bouwhuis S, Bronikowski AM, De Vleeschouwer KM, Delahay RJ, Dummermuth S, Fernández-Duque E, Frisenvænge J, Hesselsøe M, Larson S, Lemaître J-F, McDonald J, Miller DAW, O'Donnell C, Packer C, Raboy BE, Reading CJ, Wapstra E, Weimerskirch H, While GM, Baudisch A, Flatt A, Coulson T, Gaillard J-M. Doi: 10.1111/ele.13195
- A comprehensive analysis of autocorrelation and bias in home range estimation. **Ecological Monographs** 89(2): e01344. Noonan M, Tucker M, Fleming C, Akre T, Alberts SC, Ali AH, Altmann J, Antunes P, Belant J, Berens D, Beyer D, Blaum N, Böhning-Gaese K, Cullen Jr. L, Cune de Paula R, Dekker J, Drescher-Lehman J, Farwig N, Fichtel C, Fischer C, Ford A, Goheen JR, Janssen R, Jeltsch F, Kauffman M, Kappeler P, Koch F, LaPoint S, Markham C, Medici E, Morato R, Nathan R, Oliveira-Santos LG, Olson K, Patterson B, Paviolo A, Ramalho E, Roesner S, Selva N, Sergiel A, Silva MX, Spiegel O, Thompson P, Ullmann W, Zięba F, Zwijacz-Kozica T, Fagan W, Mueller T, Calabrese J. DOI: 10.1002/ecm.1344
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- Estimation of energy balance in wild baboons using fecal thyroid hormone determination. **General and Comparative Endocrinology** 260: 9-17. Gesquiere LR, Pugh M, **Alberts SC**,\* Markham AC\* (\*denotes equal contribution). Doi: 10.1016/j.ygcen.2018.02.004
- Inter-birth intervals in wild yellow baboons: causes and mechanisms of variation. **American Journal of Physical Anthropology** 166:127-106. Gesquiere LR, Altmann J, Archie EA, **Alberts SC**. Doi <http://onlinelibrary.wiley.com/doi/10.1002/ajpa.23407/full>
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- Climate and land cover analysis suggest no strong ecological barriers to gene flow in a natural baboon hybrid zone. **International Journal of Primatology** 40: 53-70. Wango TL, Musiega D, Mundia CN, Altmann J, **Alberts SC**, Tung J. DOI: 10.1007/s10764-017-9989-2
- Developmental plasticity: bridging research in evolution and human health. **Evolution, Medicine, and Public Health** 2017(1): 162-175. Lea AJ, Tung J, Archie EA, **Alberts SC**. [doi.org/10.1093/emph/eox019](https://doi.org/10.1093/emph/eox019)
- Commentaries and response: **Evolution, Medicine, and Public Health** 2017 (1): 201- 205, [doi.org/10.1093/emph/eoy007](https://doi.org/10.1093/emph/eoy007)
- 2017 Group living and male dispersal predict the core gut microbiome in wild baboons. **Integrative and Comparative Biology** 57(4):770-785. Grieneisen LE, Livermore J, Alberts SC, Tung J, Archie EA. doi: 10.1093/icb/icx046
- Hormonal correlates of natal dispersal and rank attainment in wild male baboons. **Hormones and Behaviour** 94: 153-161. Akinyi MY, Gesquiere LR, Franz M, Onyango PO, Altmann J, **Alberts SC**. doi: 10.1016/j.yhbeh.2017.07.005
- Does climate variability influence the demography of wild primates? Evidence from long-term life-history data in seven species. **Global Change Biology**. 23(11): 4907-4921. Campos FA, Morris WF, Alberts SC, Altmann J, Brockman DK, Cords M, Pusey A, Stoinski TS, Strier KB, Fedigan LM. doi 10.1111/gcb.13754
- Ovarian cycling and reproductive state shape the vaginal microbiota in wild baboons. **Microbiome** 5: 8. Miller EA, Livermore JA, Alberts SC, Tung J, Archie EA. doi: 10.1186/s40168-017-0228-z
- Conditional fetal and infant killing by male baboons. **Proceedings of the Royal Society of London, Series B** 284: 20162561. Zipple M, Grady JH, Gordon JB, Chow LD, Archie EA, Altmann J, **Alberts SC**. doi: 10.1098/rspb.2016.2561
- 2016 The emergence of longevous populations. **Proceedings of the National Academy of Sciences, USA** 113(48): E7681-E7690. Colchero F, Rau R, Jones O, Barthold J, Conde DA, Lenart A, Torres C, Altmann J, Brockman DK, Bronikowski AM, Fedigan LM, Pusey A, Stoinski TS, Strier KB, Baudisch A, **Alberts SC\***, Vaupel JW\* (\* denotes equal contributions), **Winner of the PNAS Cozzarelli Prize, 2017**.
- Genome-wide ancestry and divergence patterns from low-coverage sequencing data reveal a complex history of admixture in wild baboons. **Molecular Ecology** 25: 3469-3483. JD Wall, S Schlebusch, SC Alberts, L Cox, N Snyder-Mackler, K Nevenon, L Carbone, J Tung
- Efficient genome-wide sequencing and low coverage pedigree analysis from non-invasively collected samples. **Genetics** 203: 699-714. Snyder-Mackler N, Majoros WH, Yuan ML, Shaver AO, Gordon JB, Kopp GH, Schlebusch SA, Wall JD, Alberts SC, Mukherjee S, Zhou X, Tung J.
- Cumulative early life adversity predicts longevity in wild baboons. **Nature Communications** 7:11181. Tung J, Archie EA, Altmann J, **Alberts SC**.
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- Female and male life tables for seven wild primate species. **Scientific Data** 3:160006. Bronikowski A, Cords M, Alberts SC, Altmann J, Brockman DK, Fedigan LM, Pusey A, Stoinski T, Strier KB, Morris WF.
- 2015 Social network dynamics: the importance of distinguishing between heterogeneous and homogeneous changes. **Behavioral Ecology and Sociobiology** 69:2059-2069. Franz M, **Alberts SC**.
- Self-organizing dominance hierarchies in a wild primate population. **Proceedings of the Royal Society of London, Series B** 282: 20151512. Franz M, McLean E, Tung J, Altmann J, **Alberts SC**.
- Development, diet, and dynamism: longitudinal and cross-sectional predictors of gut microbial communities in wild baboons. **Environmental Microbiology**. Available online March 2015, DOI: 10.1111/1462-2920.12852. Ren T, Grieneisen L, Altmann J, Alberts SC, Archie EA, Wu M.
- Exaggerated sexual swellings and male mate choice in primates: testing the reliable indicator hypothesis in the Amboseli baboons. **Animal Behaviour** 104:175-185. Fitzpatrick CL, Altmann J, **Alberts SC**.
- Haven for the night: Sleeping site selection in wild baboons. **Behavioral Ecology** 27: 29-35. Markham AC, Alberts SC, Altmann J.
- Developmental constraints in a wild primate. **American Naturalist**. 185: 809-821. Lea AJ, Altmann J, **Alberts SC**, Tung J.
- Social networks predict gut microbiome composition in wild baboons. **eLife** 4:e05224. Tung J, Barreiro LB, Burns M, Grenier J-C, Lynch J, Grieneisen L, Altmann J, Alberts SC, Blekman R, Archie EA.
- Canine size in wild male baboons from Amboseli: maturation, aging and social dominance rank. **PLoS ONE** 10(5): e0126415. Galbany J, Tung J, Altmann J, **Alberts SC**.
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- The male-female health-survival paradox: A comparative perspective on sex differences in aging and mortality. In: **Sociality, Hierarchy, Health: Comparative Biodemography**. Maxine Weinstein

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**MANUSCRIPTS IN PROGRESS**

- In second review Thyroid hormone concentrations in female baboons: Energetic consequences of living in a highly seasonal environment. Gesquiere, LR, Adjangba C, Wango TL, Oudu VK, Mututua RS, Warutere JK, Siodi IL, Archie EA, Markham AC, Alberts SC.
- In review Male-mediated early maturation unlikely to evolve via adaptive evolution. Lerch BA, Zippel MN, Gesquiere LR, Sloan ET, Beehner JC, Alberts SC.
- In prep Infant spatial relationships with adult males in a wild primate: males as mitigators or magnifiers of intergenerational effects of early adversity? Zippel MN, Southworth C, Clinton SP, Archie EA, Tung J, Alberts SC.
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**COMMENTARIES, REVIEWS, POPULAR ARTICLES, ENCYCLOPEDIA ENTRIES**

The expanding value of long-term studies of individuals in the wild. Sheldon BT, Kruuk LEB, Alberts SC. 2022. **Nature Ecology & Evolution** 6(12):1799-1801.

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“Report: Primate life-history databank: setting the agenda” 2006. **Evolutionary Anthropology** 15: 44-46. Strier KB, Alberts SC, Wright PC, Altmann J & Zeitlyn D.

#### **INVITED TALKS** (Note: because of family considerations I accept only a limited number of speaking engagements)

Plenary Speaker (remote), 6th Annual Conference of the Faculty of Science and Technology, University of Nairobi, Kenya, Oct 2023

Department of Biology, University of Nairobi, April 2023

Keynote Speaker, “Life on a Dynamic Planet” Symposium, Texas A&M University, Feb 2023

Department of Anthropology, University of Texas, Austin, Feb 2023

University Program in Genetics and Genomics, Duke University, Jan 2023

Broom Center for Demography, UC Santa Barbara, Jan 2023

“Discover Science” Lecture Series, College of Science, Clemson University, Dec 2022

Department of Veterinary Anatomy and Physiology, University of Nairobi, Nov 2022

Animal Behavior Conference, Center for the Integrative Study of Animal Behavior, Indiana University, March 2022 (plenary speaker)

Distinguished Primatologist Presentation, American Society of Primatologists, Annual Meeting, (deferred from 2019), November 2021

Annual meeting of the Population Association of America, May 2021, Symposium entitled “New Frontiers in Comparative Human and Animal Model Research on the Social Dimensions of Aging” [Virtual symposium]  
SEEM (“Seminars in Ecology and Evolution at Montpellier”), CNRS, Montpellier, France, April 2021 [Virtual seminar]  
Max Planck Institute of Ornithology, Seewiesen, Germany, February 2021 [Virtual seminar]  
Workshop on Sociality and Health in Primates, University of Göttingen and Max Planck Institute for Evolutionary Anthropology, Germany, November 2020 [Virtual seminar]  
Biology Graduate Student Association (BGSA)-elected speaker, Department of Biology, September 2020 [Virtual seminar]  
Harvard Museums of Science and Public Culture, “Evolution Matters” series of public lectures, November 2019  
Washington University, Department of Anthropology, September 2019  
National Advisory Council on Aging, Washington DC, May 2019  
Evolution and Human Adaptation Program, University of Michigan, November 2018  
School of Human Evolution and Social Change, Arizona State University, September 2018  
“Eminent Ecologist” residency, Kellogg Biological Station, Michigan State University (week-long residency), June 2018  
Department of Biology, Wake Forest University, January 2018  
‘Frontiers in Baboon Research’ Symposium, German Primate Center, Oct 2017  
Plenary Speaker, 11<sup>th</sup> International Conference on Behaviour, Physiology, and Genetics of Wildlife. Berlin, Oct 2017  
Duke University Program in Ecology, September 2017  
Psychology Colloquium, University of Pennsylvania, Nov 2016  
Department of Human Evolutionary Biology, Harvard University, April 2016  
Keynote Speaker: Department of Pediatrics Research Retreat, Duke University Medical Center, April 2016  
Distinguished Lecturer in Behavior, UNC Chapel Hill Biology Department, Sept 2015  
Plenary Speaker, Animal Behavior Society, Anchorage, AK, June 2015  
Duke-UNC Seminar on Social and Biological Determinants of Health, Spring 2015  
Annual Conference on Aging, Max Planck Institutes, Leipzig, German, Feb 2015.  
The Peter and Rosemary Grant Lecture in Evolutionary Biology. Institute of Environmental Biology and Evolutionary Studies, University of Zurich, Switzerland, Feb 2015.  
Plenary Speaker, German Primate Society Conference, Leipzig, Germany, Feb 2015.  
HHMI-Janelia Farms Research Campus Conference on “Life in the Aggregate: Mechanisms and Features of Social Dynamics.” Oct 2014.  
University of Kent School of Anthropology and Conservation, Canterbury, UK, June 2014.  
Department of Ecology, Evolution and Environmental Biology, Columbia University, Feb 2014.  
Semel Institute for Neuroscience and Human Behavior, UCLA, Feb 2014.  
Morrison Institute Winter Colloquium in Population and Resource Studies, Stanford University, Feb 2014  
Cold Spring Harbor Labs, Meeting on Neurogenetics & Behavior of Nonhuman Primates, September 2013  
Department of Human Genetics, University of Chicago, May 2013  
Institute of Primate Research, National Museums of Kenya, Nairobi, Kenya, March 2013  
Max Planck Institute for Demographic Research, Rostock, Germany, June 2012  
Princeton University, Demography of Aging Center, May 2012  
Georgetown University, Distinguished Lecturer, Department of Biology, March 2012  
Duke University Marine Lab, October 2011  
NCEAS EcoLunch, National Center for Ecological Analysis and Synthesis, September 2011  
Research Workshop on Biodemography, Duke University, May 2011  
Plenary Speaker, The Ecological Society for Eastern Africa, Annual Meeting, Nairobi, Kenya, May 2010  
Duke Population Research Institute (DuPRI), Duke University, April 2010  
Stony Brook University, Behavioral Ecology Group (a multi-departmental group), February 2010  
Virginia Polytechnic and State University, Developmental Science Colloquium (a multi-departmental group), January 2010  
University of Virginia, Department of Biology, April 2009  
Institute for Primate Research, Nairobi, Kenya, March 2009  
AAAS Annual Meeting, Chicago IL, Symposium speaker, February 2009  
INCORE (Integrating Cooperation Research Across Europe) Workshop on Genetics and Biogeography of Coalition Formation in Baboons and Macaques, Barcelona, November 2008

Simposi de Primatologia de Camp, University of Barcelona, November 2008  
 Department of Ecology and Evolutionary Biology, Princeton University, May 2008  
 Santa Fe Institute, Workshop on Dominance, Leveling and Egalitarianism in Animals, March 2008  
 New York University and Wenner Gren Foundation: Evolutionary Anthropology at the Interface, October 2007  
 Department of Ecology and Evolutionary Biology, Princeton University, April 2007  
 Committee on Evolutionary Biology, University of Chicago, March 2007  
 Distinguished EEBB Speaker, Michigan State University, February 2007  
 University of Michigan, Evolution and Human Adaptation Program, November 2006  
 Molecular Primatology Conference, Center for the Study of Human Origins, New York University, March 2006  
 North Carolina State University, Keck Center for Behavioral Biology and Department of Zoology, February 2006  
 Duke University, Department of Sociology, February 2006  
 Purdue University Department of Biological Sciences, November 2005  
 University of Virginia Conference on Evolutionary Demography, October 2005  
 Plenary Speaker, The International Behavioural and Neural Genetics Society Meeting, Sitges, Spain, June 2005  
 Gordon Research Conference on Genes and Behavior, Ventura CA, February 2004  
 Reed College Department of Biology, February 2004  
 Virginia Polytechnic and State University, Department of Biology, November 2003  
 University of Illinois at Champagne-Urbana, School of Integrative Biology, October 2003  
 University of Minnesota, Department of Ecology, Evolution and Behavior, April 2003  
 Michigan State University, Program in Evolution, Ecology and Behavioral Biology, March 2002  
 Georgia Southern University, Department of Biology and the Campus Life Enrichment Committee, March 2002  
 University of Memphis, Department of Biology, February 2002  
 3rd Göttinger Freilandtage Conference on Sexual Selection in Primates, Göttingen Germany, December 2001  
 UCLA, Center for the Study of Evolution and the Origins of Life (CSEOL), December 2000  
 North Carolina State University, Department of Biology, May 2000  
 2nd Göttinger Freilandtage conference, "Primate Life Histories and Socioecology", Göttingen, Germany, Dec 1999  
 Max Planck Institute Seewiesen, Germany, Summer School, July 1998  
 Columbia University, Department of Anthropology, May 1998  
 UC Davis, Animal Behavior Graduate Group, NSF Workshop on Population Consequences of Individual Behavior, March 1998  
 Duke University, Department of Zoology, March 1997  
 Boston University, Department of Biology, January 1997  
 Rutgers University, Department of Anthropology, April 1996  
 Zoological Society of London, Institute of Zoology, March 1996

#### SERVICE AT DUKE

Departmental Service in Biology and Evolutionary Anthropology (service on tenure and promotion committees not listed).

- Evolutionary Anthropology, Chair, 2016 – 2022
- Evolutionary Anthropology, Curriculum Committee, 2016 – present
- Evolutionary Anthropology, Collections Committee, 2016 – present
- Evolutionary Anthropology, Diversity, Equity, and Inclusion Committee, 2020 – present
- Biology Department, Graduate Admissions Committee, 2016
- Biology Department, Promotion Review Committee, 2009 – 2014
- Biology Department, Faculty Search Committee, 2011-2012
- Evolutionary Anthropology, Faculty Search Committee, 2009
- Biology Department, Director of Undergraduate Studies, Biology Department, 2005 – 2009.
- Biology Department, Curriculum Committee (chair), 2005 – 2009.
- Biology Department, Steering Committee (*ex officio*), 2005 – 2009.
- Biology Department, Teaching Consultation Committee (*ex officio*), 2005 – 2009.
- Biology Department, Behavioral Neurobiology ,Faculty Search Committee, Chair, 2008 – 2009.
- Biology Department, Ecology and Behavior Faculty Search Committee, 2005 – 2006.
- Biology Department Seminar Committee, 2005-2006.
- University Program in Ecology Steering Committee member, Sept 2004 – Dec 2005.
- Biology Department Faculty Review Committee, 2003, 2004.

- Reviewer for Biology Department Grants-in-Aid to graduate students, 2004.
- Biology Department, Molecular Structure/Function Search Committee, 2003-4.
- Biology Department, Biogeochemistry Search Committee, 2002-3.
- Biology Department Seminar Committee, 2001-2002.

#### Extra-departmental and University Service.

- Dean of the Natural Sciences, Trinity College, Duke University, 2023 – present
- Member, Executive Research Oversight Committee, 2019 – 2022
- Member, Distinguished Professorship Selection Committee, 2019 – 2022
- Member, Executive Committee of the Duke Global Health Institute, 2016 – 2022
- Member, Oosting Lecture Planning Committee, University Program in Ecology, 2011-2012, 2014-19
- Member, Review committee for Vice-Provost for Research, 2018
- Member, Search Committee for Director, Duke Global Health Institute, 2016-2017
- Member, Duke Global Centers Committee, 2016 – 2022
- Chair, Global Priorities Committee, 2014 – 2016 (also Global Priorities Committee Member from 2011 – 2017)
- Member, Board of Trustees Academic Affairs Committee, 2014 – 2016
- Member, China Faculty Council, *ex officio*, 2014-2016
- Associate Director, Triangle Center for Evolutionary Medicine (TriCEM), Nov 2015 – Nov 2016.
- Associate Director for Science, National Evolutionary Synthesis Center (NESCent), Dec 2009 – Nov 2015
- Academic Council, 2015 – 2017
- Advisory Committee for Online Education, *ex officio*, 2014 – 2016
- Academic Programs Committee, *ex officio*, 2014-2016
- Presenter to the *Summer Research Opportunities Fellows*, an undergraduate group at Duke University, June 2014, June 2017.
- Presenter to the *Biomedical Research Fellows*, an undergraduate group at Duke University. June 2015, June 2016.
- Member, Global Vision Working Group, Strategic Planning Committee, 2016
- Member, Search Committee for Executive Vice-Chancellorship of Duke Kunshan University, 2015
- Member, Funding Committee, Office of Global Strategies and Programs, 2012 – 2014
- Member, Duke University Global Priorities Committee, 2011 – 2014
- *Pathways to Biological and Biomedical Research* Seminar for first-year biology students, BioCORE program, Oct 2014
- *HHMI/Compass Teaching and Learning Collaboratory*, Panelist, March 2015
- *Mentoring and Graduate Student Success* workshop (Faculty Group Leader), August 2013
- Member, University Global Strategies Committee, 2012
- Member, AB Duke Scholarship Selection Committee, 2012
- Presenter, Trinity Board of Visitors, April 2011.
- Presenter in the Chautauqua Lecture Series, Duke Office of Undergraduate Education, 2010 and 2011
- Member, Faculty Search Committee, Duke University Population Research Institute (DuPRI), 2009-2010.
- Member, Review Committee, Duke Lemur Center, 2009
- Area Coordinator for Science, and member of the Advisory Committee, Duke's Master of Arts in Teaching (MAT) program, 2001 - 2008
  - Through March 2008, I served as PI on a currently active NSF grant that provides scholarship money for MAT students. A major goal is to facilitate the matriculation of students whose first choice of MAT programs is Duke, but who cannot afford to attend; many of these are students of color. NSF DUE-0531996, The Robert Noyce Scholars at Duke University. \$448,484.00. 1 Oct 2005 – 31 May 2009.
  - Through April 2008, I served on the Advisory Committee. I participated in planning meetings, admissions decisions, final oral exams, and I reviewed and approved program changes and program budget. I actively mentored MAT students that were preparing to teach high school science (biology, chemistry, physics, environmental science).

- Member, Task Force to assess the Biological Anthropology and Anatomy Department, 2006-07
- Presenter, Parent's Weekend Lecture, October 2005
- Member, Senior Women in Science Group, focusing on issues of Recruitment, Hiring, Retention and Promotion, 2005 – 2008
- Co-chair, Arts & Sciences "Brain, Mind and Behavior" Education Committee, Fall 2005
- Duke University Academic Council member, 2003 - 2008

#### **SERVICE TO THE SCIENTIFIC COMMUNITY**

Member, External Advisory Board for IISAGE (Integration Institute: Sex, Aging, Genomics, and Evolution), 2023-present  
Max Planck Institute of Animal Behavior (Konstanz, Germany), Scientific Advisory Board, 2020 – present  
Animal Behavior Society, President, 2020-present  
2<sup>nd</sup> President-elect, 2020-2021  
1<sup>st</sup> President-elect, 2021-2022  
President, 2022-2023  
Past-President, 2023-2024  
National Primate Conservation Task Force, Kenya Wildlife Service, Kenya (2019-2024)  
NSF Panel Service, 2018  
Society for the Study of Evolution, Council Member, 2016-2018  
Society for the Study of Evolution, Rosemary Grant Research Award Committee, 2016-2017  
American Academy of Arts and Sciences, Membership Panel for Section II:4, 2016 - present  
American Society of Naturalists E.O. Wilson Award committee, 2015-2017; Chair 2017.  
Editorial Board Member for PeerJ, 2015 –2017.  
Associate Director, Triangle Center for Evolutionary Medicine (TriCEM), Nov 2015 – Nov 2016.  
National Primate Conservation Task Force, Kenya Wildlife Service, Kenya (2013-2018)  
Associate Director for Science, National Evolutionary Synthesis Center (NESCent), Dec 2009 – Nov 2015.  
Editorial Board Member for Behavioral Ecology, July 2009 – December 2014.  
Associate Editor for Behavioral Ecology and Sociobiology, January 2003 – December 2009.  
Associate Editor for American Journal of Primatology, 2000 - 2003.  
Refereeing for: Animal Behaviour, Animal Conservation, Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Current Biology, Ethology, Genetics, Molecular Ecology, PLoS Biology, PLoS Genetics, Proceedings of the National Academy of Sciences (including guest-editing two manuscripts), Proceedings of the Royal Society of London Series B, Science.  
Grant reviewing. National Science Foundation: regular grant reviews, also panel service at both Animal Behavior and Population Biology. Also: L.S.B. Leakey Foundation, Animal Behavior Society, Leverhulme Foundation U.K., South African National Research Foundation, U.S. Fish and Wildlife Service's African Elephant Conservation Fund.

#### **EDUCATION AND OUTREACH**

- Development of teaching modules
  - Participated in DryadLab Workshop and developed "Survivorship in the Natural World," a module for teaching the life history concepts of survivorship and population age structure to college level and upper level high school students. This module will be publicly available through the Dryad Data Repository beginning in June 2015.
  - Developed "CSI:Baboonland," a module aimed at middle school students, for teaching methods of genetic identity assignment.
- Presentations
  - Middle school science workshop, "CSI: Baboonland" (Taught regularly to middle school students at two Durham NC schools, 2012-2015).
  - Presentations to Pre-College and College Summer Research Programs at Duke University (HHMI and SROP); 2011, 2014, 2015.
  - 'Science Café' presenter: North Carolina Museum of Natural Sciences, Raleigh NC, Aug 2013, and "Periodic Tables", Durham NC, May 2011.
  - Presentation on the evolution of reproductive aging, for North Carolina State High School Science Teachers Workshop on Evolution and Medicine (March 2013).

- Early elementary-level science workshop on animal behavior, at a North Carolina State school serving children with mental health challenges (April 2012).
- Darwin Day celebrations, 10<sup>th</sup> and 11<sup>th</sup> Feb 2012, at a local middle school in Durham, NC.
- High School Presentations: North Carolina School of Science and Math, Durham NC (Jan 2011) and Riverside High School (Jan 2002).
- FEMMES (Females Excelling More in Math, Engineering and Science), a K-12 outreach program, Durham NC (Mar 2008).
- Short science segments as a volunteer at a local public elementary school, Durham NC (2006-2007).
- Workshops for Durham area high school science teachers, aimed at developing content in evolutionary biology (2002-2003) (funded by NSF IBN-0091612).

**SOCIETY MEMBERSHIPS**

- National Academy of Sciences (Elected Member)
- American Academy of Arts & Sciences (Elected Fellow)
- American Association for the Advancement of Science (Elected Fellow)
- American Society of Naturalists (Lifetime)
- American Society of Primatologists (through 2021)
- Animal Behavior Society (Lifetime)
- International Primatological Society (Lifetime)
- Society for the Study of Evolution (Lifetime)
- American Association of Physical Anthropologists (through 2023)
- Sigma Xi, The Scientific Research Society
- British Ecological Society