

DALE HARTWELL CLAYTON

February 2021

University of Utah
School of Biological Science
257 South 1400 East
Salt Lake City, UT 84112

801-230-3170 (Voice)
clayton@biology.utah.edu
dalehclayton@gmail.com
darwin.biology.utah.edu

Education:

Ph.D. in Evolutionary Biology, University of Chicago, 1989
M.S. in Entomology, University of Minnesota, 1983
B.A. in Biology (Psychology minor), Hartwick College, NY, 1979

Positions:

Current: Professor, School of Biological Sciences, Univ. of Utah (since 7/04)
Co-founder, Larada Sciences Inc, (d/b/a Lice Clinics of America) (since 7/06)
Adjunct Curator, Utah Museum of Natural History (since '97)

2001-20: Research Associate, Natural History Museum, Kansas Univ.

2006-08: Secretary, Society for the Study of Evolution

2004-08: Director, Center for Alternate Strategies of Parasite Removal, Univ. Utah

1999-04: Associate Professor, Department of Biology, University of Utah

1996-99: Assistant Professor, Department of Biology, University of Utah

1993-96: Stipendiary Lecturer, Merton College, Oxford University, England

1991-92: Stipendiary Lecturer, Lady Margaret Hall, Oxford University, England

1991-96: Departmental Lecturer, Department of Zoology, Oxford University, England

1990-91: NSF-NATO Postdoctoral Fellow, Oxford University, England

1986-89: NIH Genetics Training Grant Fellow, University of Chicago

1984-85: Graduate Fellow, University of Chicago & Field Museum of Natural History

1980-83: Research Assistant, Department of Entomology, University of Minnesota
Curatorial Assistant, Entomology Museum, University of Minnesota

1979: Entomology Technician, Smithsonian Institution Washington D.C.

Primary Research Interest:

Host-parasite coevolution, especially birds and their ectoparasites

Professional Memberships:

American Association for the Advancement of Sciences
American Ornithological Society (Fellow)
American Society of Parasitologists (Ward Medalist)
Society for the Study of Evolution (past Secretary)

Honors/Awards:

- 2020: Bessey Lecture, Iowa State University.
2018: Nominee: Distinguished Teaching Award, University of Utah
Golden Commemorative Badge, University of Veterinary & Pharmaceutical
Sciences, Brno, Czech Republic (for contributions to Phthirapteran research)
2016: Distinguished Scholarly & Creative Research Award, University of Utah
2013: Distinguished Innovation & Impact Award, University of Utah
2011: Hodson Alumni Award, Department of Entomology, Univ. of Minnesota
2010: Griswold Lecture, Cornell University
2009: Nominee: Distinguished Teaching Award, University of Utah
2008: H. B. Ward Medal, American Society of Parasitologists (highest award)
E. Paul Catts Memorial Lecture, Washington State University
2007: Fellow - American Ornithologists' Union
2006-09: Secretary, Society for the Study of Evolution
2004: Strickland Memorial Lecture, University of Alberta
1997-02: National Science Foundation CAREER Award
1996: Elective Member - American Ornithologists' Union
1990: NSF-NATO Postdoctoral Fellowship to Oxford University
1989: Work featured in *Prehistory of the Far Side* by Gary Larson (☺)
1988: Council Award - American Ornithologists' Union
1979: Senior Research Award in Biology, Hartwick College
Faculty Scholar Award in Biology, Hartwick College
Saxton Fellowship Award in Psychology, Hartwick College
1978: Tri-Beta Biology Honor Society student paper award
1974: Eagle Scout, Boy Scouts of America

Patents: United States Patent Nos. 7,789,902 B2 (9/7/10) & 8,162,999 B2 (4/24/12)
Clayton et al. Ectoparasite Eradication Method & Device

Funding:

- 2020: NSF Grant: *Do tolerant hosts amplify the threat of invasive parasites? Darwin's finches, mockingbirds, and nest flies.* (\$775,000; 3 years, Co-PI S. Bush).
2019: NSF Dimensions of Biodiversity US-China: *Collaborative Research: Replaying the Tape of Lice - Functional Genomics and Experimental Endosymbiont Replacements* (\$1,292,170; 5 yrs, 2 labs).
2017: NSF-DDIG Grant: *Epigenetic effects of an invasive parasite on an avian host* (\$19,434; 2 yrs, Co-PI Sabrina McNew).
2014: Templeton Foundation: *Pilot Project: Role of epigenetics in evolutionary biology: Darwin's finch model* (\$215,870; 1 yr, Co-PI Mike Skinner).
5th International Conference of Phthirapterists: raised \$75,000 in sponsorships.
2013: NSF Dimensions of Biodiversity grant: *Experimental adaptive radiation - genomics of diversification in bird lice* (\$1,370,098; 5 yrs, 2 labs)
NSF REU supplements for undergrad research (\$20,000) (to 3 grants)
2012: NSF REU supplement for undergraduate research (\$7,500) (to 1 grant)

- NSF OPUS conference supplement (\$2,243)
NSF-DDIG Grant: *Experimental tests of avian behavioral and immunological defenses against a malaria vector* (\$14,992; 2 yrs, Co-PI Jessica Waite)
- 2011: NSF OPUS: *Ecological basis of coevolutionary history*. (\$149,604; 2 yrs).
NSF REU supplements for undergraduate research (\$15,000) (to 2 grants)
- 2010: NSF REU supplements for undergraduate research (\$15,000) (to 2 grants)
- 2009: NSF-DDIG Grant: *Evolutionary history of endosymbiotic bacteria in bird lice: A genomics approach* (\$14,646; 2 yrs, Co-PI: Wendy Smith)
NSF REU supplements for undergraduate research (\$24,750) (to 3 grants)
University of Utah HETI Computing Grant (\$986)
- 2008: NSF Grant: *Invasive parasites and Darwin's finches* (\$500,000; 3 yrs).
NSF BSI Grant: *A comprehensive biotic survey of Philippine land vertebrates and their parasites* (\$900,000; 5 yrs, 3 Co-PIs)
Utah Centers of Excellence Program Grant (\$50,000; 1 yr to Larada Sci.)
- 2007: Salt Lake Life Science Angels Series-A Preferred investment (\$600,000)
Utah Centers of Excellence Program grant (\$170,000; 1 yr to Larada Sci.)
NSF REU supplements for undergraduate research (\$18,000) (to 3 grants)
- 2006: NSF Grant: *Phylogenesis and possible replacement of endosymbionts in Columbiform bird lice* (\$270,000; 3 yrs, Co-PI: Colin Dale, Univ. Utah)
NSF-DDIG Grant: *Ecological Determinants of Geographic Specificity in Host Specific Parasites: Experiments with Mourning Dove Feather Lice* (\$11,772; 2 yrs, student Co-PI: Jael Malenke)
NSF REU supplement for undergraduate research (\$6,250) (Col)
University of Utah HETI Computing Grant (\$1,270)
- 2005: Utah Centers of Excellence Program Grant (\$150,000; 1 yr)
NSF REU supplement for undergraduate research (\$6,250) (to Col grant)
University of Utah HETI Computing Grant (\$1,050)
- 2004: Utah Centers of Excellence Program Grant (\$135,000; 1 yr)
NSF BSI Grant: *Biodiversity Surveys in the Southern Borderlands of the People's Republic of China* (\$750,000; 5 yrs, 3 Co-PIs)
NSF REU supplements for undergraduate research (\$12,000) (2 to Col grant)
University of Utah HETI Computing Grant (\$600)
- 2003: Utah Centers of Excellence Program Planning Grant (\$5,000; 1 yr)
Univ. of Utah Technology Commercialization Program Grant:
Control of head lice in children (\$33,820; 1 yr)
NSF REU supplements for undergraduate research (\$12,000) (to Col & PEET)
- 2002: Primary Children's Medical Center Foundation Innovative Research Grant:
Control of head lice in children (\$24,120; 1 yr)
NSF REU supplements for undergraduate research (\$12,500) (2 to Col grant)
NSF PEET Initiative - International Program supplement:
2nd International Congress on Phthiraptera (Australia) (\$14,000)
- 2001: NSF PEET Initiative Award: *Systematics of chewing lice (Insecta: Phthiraptera): World checklist and monographic revision of the Gonioididae* (\$698,608; 5 yrs, Co-P.I. Kevin Johnson, Illinois Natural History Survey)

- NSF research Grant: *Systematics and evolution of body size in feather lice (Columbicola: Ischnocera)* (\$240,000; 3 yrs)
Primary Children's Medical Center Foundation Innovative Research Grant: *Control of head lice in children* (\$20,125; 1 yr)
NSF REU supplements for undergraduate research (\$12,500)
National Pediculosis Association Grant: *Control of head lice in children* (\$4,000)
University of Utah HETI Computing Grant (\$500)
- 2000: University of Utah Funding Incentive Seed Grant: *Molecular genetics and control of human head lice* (\$34,862; 1 yr)
NSF REU supplements for undergraduate research (\$15,000)
National Pediculosis Association Grant: *Control of head lice in children* (\$5,000)
WAESCO project award for undergraduate minority research (\$2,756)
University of Utah HETI Computing Grant (\$750)
- 1999: NSF ROA & REU supplements for undergraduate research (\$33,829)
University of Utah HETI Computing Grant (\$1,400)
- 1998: University of Utah Research Committee Grant: *Impact of low humidity on the survival of bird lice* (\$5,712; 1 yr)
University of Utah HETI Computing Grant (\$812)
- 1997: National Science Foundation CAREER Award: *Adaptive basis of host-parasite cospeciation: Phylogenetic experiments* (\$275,000; 4 yrs)
University of Utah Research Committee Grant (\$5,954; 1 yr)
University of Utah Faculty Assistance Grant (\$3,580)
University of Utah Teaching Committee Grant (\$2,663)
University of Utah HETI Computing Grant (\$300)
- 1996: Pump Priming Grant, University of Oxford (\$8,800)
Merton College (Oxford) Travel Award (\$663)
- 1995: British Royal Society Research Grant (\$12,800)
Lockey Bequest Travel Award, Oxford University (\$720)
Merton College (Oxford) Travel Award (\$670)
- 1994: British Natural Environment Research Council Grant: 3 yrs (\$281,400)
British Royal Society Travel Award (\$660)
American Ornithologists' Union Travel Award (\$500)
American Society of Parasitologists Travel Award (\$500)
- 1993: Pump Priming Grant, Oxford University (\$6,800)
Departmental Equipment Grant, Oxford University (\$3,315)
British Ecological Society Travel Grant (\$2,465)
Lockey Bequest Travel Award, Oxford University (\$340)
- 1992: Association for the Study of Animal Behaviour (\$6,090)
British Natural Environment Research Council Studentship grant (\$24,480)
Departmental Equipment Grants (\$7,990 & \$2,890)
Royal Soc Travel Award (\$680); Lockey Bequest Travel Award (\$892)
- 1990-91: NSF-NATO Postdoctoral Fellowship to Oxford University (\$48,736)
- 1988: Nierman Foundation Research Award, University of Chicago (\$1,000)
American Ornithologists' Tucker Travel Award (\$400)
- 1987-88: NSF Doctoral Dissertation Grant (\$7,295)
- 1986-89: NIH Genetics Training Grant Fellowship (\$28,000)
- 1986: American Ornithologists' Union Van Tyne Research Award (\$480)

- American Museum of Natural History Chapman Research Award (\$864)
Sigma Xi Grant-in-Aid of Research (\$300)
- 1985: Center for Latin American Studies Travel Award, Univ. of Chicago (\$500)
Acarology Institute Summer Fellowship, Ohio State University (\$400)
Field Museum of Natural History Dee Academic Fellowship (\$6,000)
Hinds Fund Research Award, University of Chicago (\$500)
- 1984: Organization for Tropical Studies Noyes Research Award (\$800)
Hinds Fund Research Award, University of Chicago (\$200)
- 1983-84: University of Chicago Graduate Fellowship (\$7,400)
- 1982: University of Minnesota Tuition Fellowship (\$1,000)
- 1975-79: Hartwick College Academic Merit Fellowship (\$4,000)

PUBLICATIONS - books, book chapters & journal articles:

(Underlined names = current or former students or postdocs)

162. McNew, S. T., Boquete, S. Espinoza-Ulloa, J. Andres, N. Wagemaker, S. Knutie, C. Richards, and D. H. Clayton. In revision. Epigenetic effects of parasites and pesticides on captive and wild nestling birds. *Ecology and Evolution*.
161. Bush, S. E., D. R. Gustafsson, V. V. Tkach, and Dale H. Clayton. 2021. Critical comment: The misidentification crisis plagues specimen-based research: A case for guidelines with a recent example (Ali *et al.* (2020)). *Journal of Parasitology*.
160. Baldwin-Brown J.G., S. M. Villa, A. Vickery, K. P. Johnson, S. E. Bush, **D. H. Clayton**, and M. D. Shapiro. 2021. The assembled and annotated genome of the pigeon louse *Columbicola columbae*, a model ectoparasite. *G3: Genes|Genomes|Genetics*.
159. Goodman, G. B., M. C. Klingensmith, S. E. Bush, and **D. H. Clayton**. 2020. The role of scratching in the control of ectoparasites on birds. *Auk: Ornithological Advances* 137:1-9.
158. McNew, S. M., S. A. Knutie, and **D. H. Clayton**. 2020. Galápagos mockingbirds do not bias sex ratios of offspring in response to environment. *J. Avian Biology*.
157. Goodman, G. B., S. A. Conner, S. E. Bush, and **D. H. Clayton**. 2020. Is allopreening a stimulus-driven defense against ectoparasites? *J. Parasitology*. 106:167-171.
156. McNew, S. M., G. B. Goodman, J. Yépez, and **D. H. Clayton**. 2020. Parasitism by an invasive nest fly reduces future reproduction in Galápagos mockingbirds. *Oecologia* 192:363–374.
155. Beausoleil, M.-O., L. O. Frishkoff, L. K. M'Gonigle, J. A. M. Raeymaekers, S. A. Knutie, L. F. De León, S. K. Huber, J. A. Chaves, **D. H. Clayton**, J. A. H. Koop, J. Podos, D. M. T. Sharpe, A. P. Hendry, and R. D. H. Barrett. 2019. Temporally varying disruptive

- selection in the medium ground finch (*Geospiza fortis*). *Proceedings of the Royal Society B: Biological Sciences* 286:20192290–10.
154. Villa, S. M., J. C. Altuna, J. S. Ruff, A. B. Beach, L. I. Mulvey, E. J. Poole, H. E. Campbell, K. P. Johnson, M. D. Shapiro, S. E. Bush and D. H. Clayton. 2019. Experimental evolution of reproductive isolation from a single natural population. *Proc. Natl. Acad. Sci.* 116 (27) 13440-13445. Featured “In This Issue” <https://www.pnas.org/content/116/27/13147> **Recommended by Faculty of 1000.**
153. Bush, S. E., S. M. Villa, J. C. Altuna, K. P. Johnson, M. D. Shapiro and D. H. Clayton. 2019. Host defense triggers rapid adaptive radiation in experimentally evolving parasites. *Evolution Letters* 3-2: 120–128. **Recommended by Faculty of 1000.** Press coverage in *The Atlantic*: <https://www.theatlantic.com/science/archive/2019/03/unusual-evolutionary-experiment/584692/> Commentary in *Journal of Experimental Biology* 2019 222: jeb192815 doi: 10.1242/jeb.19281
152. McNew S.M., S. A. Knutie, G. B. Goodman, A. Saulsberry, A. Theodosopoulos, J. R. Yépez, S. E. Bush and D. H. Clayton 2019. Annual environmental variation influences host tolerance of parasites. *Proceedings of the Royal Society B.* <https://doi.org/10.1098/rspb.2019.0049>
151. Gustafsson, D. R., **D. H. Clayton**, and S. E. Bush. 2019. Twelve new species of *Guimaraesiella* Eichler, 1949 (Phthiraptera: Ischnocera: Philopteridae) from “babblers” (Passeriformes: Leiothrichidae, Pellorneidae, Timaliidae), with a description of a new subgenus. *Zootaxa* 4543: 451–497
150. Villa, S. M., J. A. H. Koop, C. Le Bohec and D. H. Clayton. 2018. Beak of the pinch: Anti-parasite traits are similar among Darwin’s finch species. *Evolutionary Ecology* 32: 443-452. **Recommended by Faculty of 1000.**
149. Diblasi, E., K. P. Johnson, S.A. Stringham, A.N. Hansen, A.B. Beach, D.H. Clayton and S.E. Bush. 2018. Phoretic dispersal influences parasite population genetic structure. *Molecular Ecology*, 1-10, <https://doi.org/10.1111/mec.1471>
148. Gustafsson, D. R., **D. H. Clayton**, and S. E. Bush. 2018. Twelve new species of *Priceiella* Gustafsson & Bush, 2017 (Phthiraptera: Ischnocera: Philopteridae) from Old World babblers, with a key and comprehensive host-parasite checklist. *Zootaxa* 4382: 401-449.

147. Bush, S. E. and D. H. Clayton. 2018. Anti-parasite behavior of birds. *Philosophical Transactions of the Royal Society of London B*. 1-13, DOI: 10.1098/rstb.2017.0196
146. Bush, S.E., D. R. Gustafsson and **D. H. Clayton**. 2018. New records of ectoparasites from passerine birds in the High Tatras of Slovakia. *Oecologia Montana* 27:43-45.
145. Villa, S. M., M. D. Evans, Y. K. Subhani, J. C. Altuna, S. E. Bush and **D. H. Clayton**. 2018. Body size and fecundity are correlated in feather lice (Phthiraptera: Ischnocera): Implications for Harrison's Rule. *Ecol. Entomol.* doi: 10.1111/een.12511.
144. McNew, S. M. and **D. H. Clayton**. 2018. Alien invasion: Biology of *Philornis* flies highlighting *P. downsi*, an introduced parasite of Galapagos birds. *Annual Review of Entomology* 63:369-87.
143. McNew, S. M., D. Beck, I. Sadler-Riggleman, S. A. Knutie, J. A. H. Koop, **D. H. Clayton** and M. K. Skinner. 2017. Epigenetic variation between urban and rural populations of Darwin's finches. *BMC Evolutionary Biology* 17: 183.
142. Boyd, B. M., J. A. Allen, N. Nguyen, A. D. Sweet, T. Warnow, M. Shapiro, S. M. Villa, S. E. Bush, **D. H. Clayton**, K. P. Johnson. 2017. Phylogenomics using target restricted assembly resolves intra-generic relationships of parasitic lice (Phthiraptera: *Columbicola*). *Systematic Biology* 66: 896-911.
141. Knutie, S. A., J. M. Herman, J. P. Owen and **D. H. Clayton**. 2017. Tri-trophic ecology of native parasitic nest flies of birds in Tobago. *Ecosphere* 8:e01670. 10.1002/ecs2.1670
140. Heimpel, G. E., A. Hillstrom, D. Freund, S. A. Knutie, and **D. H. Clayton**. 2017. Invasive parasites and the fate of Darwin's finches in the Galapagos Islands: the case of the Vegetarian Finch. *Wilson Journal of Ornithology* 129:345-349
139. Villa, S. M., G. B. Goodman, J. S. Ruff and **D. H. Clayton**. 2016. Does allopreening control avian ectoparasites? *Biology Letters* 12: 20160362. <http://dx.doi.org/10.1098/rsbl.2016.0362>
138. Villa, S. M., H. E. Campbell, S. E. Bush and **D. H. Clayton**. 2016. Does anti-parasite behavior improve with experience? Experimental test of the priming hypothesis. *Behavioural Ecology* doi: 10.1093/beheco/arw032
137. Knutie, S. A., J. P. Owen, S. M. McNew, A. W. Bartlow, E. Arriero, J. M. Herman, E. Diblasi, M. Thompson, J. A. H. Koop and **D. H. Clayton**. 2016. Galápagos mockingbirds tolerate introduced parasites that threaten Darwin's finches. *Ecology* 97:940-950.

136. Koop, J. A. H., P. S. Kim, S. A. Knutie, F. Adler and **D. H. Clayton**. 2016. Introduced parasitic fly may lead to local extinction of Darwin's finch populations. *Journal of Applied Ecology*. doi: 10.1111/1365-2664.12575
Press coverage: Covered by BBC News, Smithsonian, Christian Science Monitor, Huffington Post, DailyMail, Fusion, MentalFloss and many others.
135. **BOOK: Clayton, D. H.**, S. E. Bush and K. P. Johnson. 2015. *Coevolution of life on hosts: Integrating ecology and history*. University of Chicago Press. 294 pages & 16 color plates.
134. Skinner, M. A., C. Gurerrero-Bosagna, Md M. Haque, E. E. Nilsson, J. A. H. Koop, Sarah A. Knutie and **D. H. Clayton**. 2014. Epigenetics and the evolution of Darwin's finches. *Genome Biology and Evolution* 6(8): 1972-1989.
133. J.P. Owen, J. L. Waite, K. Z. Holden and **D.H. Clayton**. 2014. Does antibody binding to novel proteins predict future infection? (Invited article for special issue concerning immunology and ectoparasites). *Parasite Immunology* 36: 571-582.
132. Ghosh, S., J.L. Waite, **D. H. Clayton** and F.R. Adler. 2014. Can antibodies against flies alter malaria transmission in birds by changing vector behavior? *Journal of Theoretical Biology* 358: 93-101.
131. Knutie, S. A., S. M. McNew, A. W. Bartlow, D. Vargas, and **D. H. Clayton**. 2014. Darwin's finches combat introduced nest parasites with fumigated cotton. *Current Biology* 24: R355-R356. **Recommended by Faculty of 1000**
Press coverage: Covered by Reuters, Science, Nature, National Public Radio, Scientific American, National Geographic, CBC *Quirks & Quarks* & many others. Also featured on the game show *Jeopardy*.
130. Waite, J.L., A.R. Henry, J.P. Owen and **D.H. Clayton**. 2014. An experimental test of the effects of behavioral and immunological defenses against vectors: do they interact to protect birds from blood parasites? *Parasites & Vectors* 7:104.
129. Koop, J. A. H., C. Le Bohec and **D. H. Clayton**. 2013. Dry year does not reduce invasive parasitic fly prevalence or abundance in Darwin's finch nests. *Reports Parasitol.* 3:11-17.
128. Koop, J. A. H., J. P. Owen, S. A. Knutie, M. A. Aguilar and **D. H. Clayton**. 2013. Experimental demonstration of a parasite-induced immune response in wild birds: Darwin's finches and introduced nest flies. *Ecology and Evolution*. doi: 10.1002/ece3.651
127. Knutie, S. A., J. A. H. Koop, S. S. French and **D. H. Clayton**. 2013. Experimental test of the effect of introduced hematophagous flies on the corticosterone levels of breeding Darwin's finches. *General and Comparative Endocrinology* 193: 68-71.

126. Koop, J. A. H. and **D. H. Clayton**. 2013. Evaluation of two methods for quantifying passeriform lice. *J. Field Ornithology* 84:210-215.
125. Smith, W. A., K. P. Johnson, D. L. Reed, T. Carter, K. L. Smith, R. Koga, T. Fukatsu, **D. H. Clayton** and C. Dale. 2013. Phylogenetic analysis of symbionts in feather-feeding lice of the genus *Columbicola*: Evidence for repeated symbiont replacements. *BMC Evolutionary Biology* 13:109-23.
124. Villa, S. M., Le Bohec, C., Koop, J. A. H., Proctor, H. D., and **D. H. Clayton**. 2013. Diversity of feather mites (Acari: Astigmata) on Darwin's Finches. *J. Parasitology* 99: 756-762.
123. Waite, J. L., A. R. Henry and **D. H. Clayton**. 2012. How effective is preening for controlling mobile ectoparasites? An experimental test with pigeons and hippoboscid flies. *International Journal of Parasitology*. 42:463-467.
122. Knutie, S. A., J. L. Waite and **D. H. Clayton**. 2012. Does avian malaria reduce host fledging success: A test of the "selection" hypothesis. *Evolutionary Ecology*. DOI 10.1007/s10682-012-9578-y
121. Waite, J. L., A. R. Henry, F. R. Adler and **D. H. Clayton**. 2012. Sex-specific effects of avian malaria on an insect vector: Support for the resource limitation hypothesis. *Ecology* 93: 2448–2455.
120. Koop, J. A. H., S. K. Huber and **D. H. Clayton**. 2012. Does sunlight enhance the effectiveness of avian preening for ectoparasite control? *J. Parasitology* 98: 46-48.
119. Harbison, C. W. and **D. H. Clayton**. 2011. Community interactions govern host switching with implications for host-parasite coevolutionary history. *Proceedings National Academy of Sciences* 108: 9525-9529.
Press coverage: Science Now.
118. Koop, J. A. H., S. K. Huber, S. M. Lavery and **D. H. Clayton**. 2011. Experimental demonstration of the fitness consequences of an introduced parasite of Darwin's Finches. *PLoS ONE* 6: e19706.
117. Johnson, K. P., J. Weckstein, S. E. Bush and **D. H. Clayton**. 2011. The evolution of host specificity in dove body lice. *Parasitology* 138:1730–1736 (*invited article*)
116. Johnson, K. P., J. Weckstein, M. Meyer and **D. H. Clayton**. 2011. There and back again: Switching between host orders by avian body lice (Ischnocera: Gonioididae). *Biological Journal of the Linnean Society* 102: 614-625.
115. Malenke, J. R., N. Newbold and **D. H. Clayton**. 2011. Condition-specific competition governs the geographic distribution and diversity of ectoparasites. *American Naturalist* 177: 522-534.

114. Bush, S. E., A. N. Rock, S. L. Jones, J. R. Malenke, and **D. H. Clayton**. 2011. Efficacy of the LouseBuster, a new medical device for treating head lice (Anoplura: Pediculidae). *Journal of Medical Entomology* 48:67-72.
Press coverage: Featured by many newspapers and TV/Radio broadcasts, e.g. *All Things Technical* segment on *All Things Considered* (National Public Radio broadcast), April 2012.
113. Johnson, K.P., **D. H. Clayton**, J. P. Dumbacher and R. C. Fleisher. 2010. The flight of the passenger pigeon: Phylogenetics and biogeographic history of an extinct species. *Molecular Phylogenetics and Evolution* 57:455-458.
112. Bush, S. E. D. Kim, M. Reed, and **D. H. Clayton**. 2010. Evolution of cryptic coloration in ectoparasites. *American Naturalist* 176: 529-535.
Press coverage: Nature. 2010. 466:1024. Research Highlights - Evolutionary Biology: Lice in hiding Science NOW. 25 Aug 2010 - Science Shot: Colored lice are for the birds. NY Times - Science Times. Sept. 6, 2010. On Birds of Many Colors, Lice Dress the Part. Why Evolution is True - blog by Jerry Coyne. A lousy paper. posted Sept. 9, 2010. (<http://whyevolutionistrue.wordpress.com/2010/09/09/a-lousy-paper/>).
111. Owen, J.P., A. C. Nelson and **D. H. Clayton**. 2010. Ecological immunology of bird-ectoparasite systems. *Trends in Parasitology* 26: 530-539 (and cover).
110. **Clayton, D. H.**, J. A. H. Koop, C. W. Harbison, B. R. Moyer and S. E. Bush. 2010. How birds combat ectoparasites. *Open Ornithology Journal* 3: 41-71. (invited review for special issue: Current Issues in Avian Parasitology).
www.bentham.org/open/toenij/openaccess2.htm
109. Huber, S. K., J. P. Owen, A. H. Koop, M. O. King, P. R. Grant, B. R. Grant, and **D. H. Clayton**. 2010. Ecoimmunity in Darwin's finches: Invasive parasites trigger acquired immunity in the medium ground finch (*Geospiza fortis*). *PLoS One*. 5: e8605.
108. Proctor, H. C., G. Williams and **D. H. Clayton**. 2009. Population density and male polymorphism in the feather mite *Falculifer rostratus* (Acari: Falculiferidae). *Trends in Acarology: Proceedings 12th International Congress of Acarology*: 299-302. Springer..
107. Johnson K. P., J. R. Malenke, and **D. H. Clayton**. 2009. Competition promotes the evolution of host generalists in obligate parasites. *Proceedings Royal Soc Lond (B)* 276: 3921-3926.
106. Harbison, C. W., M. V. Jacobsen, and **D. H. Clayton**. 2009. Hitchhiker's guide to parasite transmission: phoretic behavior of feather lice. *International Journal of Parasitology* 39: 569-575.
105. Malenke, J. R., K. P. Johnson and **D. H. Clayton**. 2009. Host specialization differentiates cryptic species of feather-feeding lice. *Evolution* 63:1427-1438.

104. Bush, S. E., C. W. Harbison, D. Slager, A. T. Peterson, R. D. Price, and **D. H. Clayton**. 2009. Geographic variation in the community structure of lice on Western Scrub-jays. *Journal of Parasitology*. 95:10-13.
103. Bush, S. E., R. D. Price, and **D. H. Clayton**. 2009. Descriptions of eight new species of feather lice in the genus *Columbicola* (Phthiraptera: Philopteridae), with a comprehensive world checklist. *Journal of Parasitology* 95:286-294.
102. **Clayton, D. H.**, R. J. Adams and S. E. Bush. 2008. Phthiraptera, the Chewing Lice. Pp. 515-526 in C. T. Atkinson, N. J. Thomas, and D. B. Hunter (eds). *Parasitic diseases of wild birds*. Wiley-Blackwell, Ames, Iowa.
101. Lim, B. K., J. L. Eger, A. T. Peterson, M. B. Robbins, **D. H. Clayton**, S. E. Bush and R. M. Brown. 2008. Biodiversity in China: Lost in the masses? *Harvard Asia Quarterly* 11:12-23.
100. **Clayton, D. H.** 2008. Balancing the tripod: Acceptance of the 2008 Henry Baldwin Ward Medal. *Journal of Parasitology* 94:1195-1199.
99. Harbison, C. W., S. E. Bush, J. R. Malenke, and **Dale H. Clayton**. 2008. Comparative transmission dynamics of competing parasite species. *Ecology* 89: 3186-3194.
98. Peterson, A. T., T. Brooks, A. Gamauf, J. C. T. Gonzalez, N. A. D. Mallari, G. Dutson, S. E. Bush, **D. H. Clayton** and R. Fernandez. 2008. The avifauna of Mt. Kitanglad, Bukidnon Province, Mindanao, Philippines. *Fieldiana N. S. Zoology* 114:1-43.
97. Fukatsu, T., R. Koga, W. A. Smith, K. Tanaka, N. Nikoh, K. Sasaki-Fukatsu, K. Yoshizawa, C. Dale, and **D. H. Clayton**. 2007. Bacterial endosymbiont of the slender pigeon louse *Columbicola columbae* allied to endosymbionts of grain weevils and tsetse flies. *Applied and Environmental Microbiology* 73: 6660-6668.
96. Owen, J. P. and **D. H. Clayton**. 2007. Where are the parasites in the PHA response? *Trends in Ecology and Evolution* 22: 228-229.
95. Johnson, K. P., D. L. Reed, S. L. H. Parker, D. Kim, and **D. H. Clayton**. 2007. Phylogenetic analysis of nuclear and mitochondrial genes supports species groups for *Columbicola* (Insecta: Phthiraptera). *Molecular Phylogenetics and Evolution* 45:506-518.
94. Pereira, S. L., K. P. Johnson, **D. H. Clayton** and A. J. Baker. 2007. Mitochondrial and nuclear DNA sequences support a Cretaceous origin of Columbiformes and a dispersal driven radiation in the Paleogene. *Systematic Biology* 56:656-672.
93. Bush, S. E. and **D. H. Clayton**. 2006. The role of body size in host specificity: Reciprocal transfer experiments with feather lice. *Evolution* 60:2158-2167.
Textbook Coverage: Futuyma, D. A. 2009. *Evolution*, 2nd ed. Sinauer (501-02).
Freeman & Heron. 2007. *Evolutionary Analysis*, 4th ed. Pearson/Prentice Hall (pp 363-364 and 390-391).

92. Goates, B. M., J. S. Atkin, K. G. Wilding, K. J. Birch, M. R. Cottam, S. E. Bush and D. H. Clayton. 2006. An effective non-chemical treatment for head lice: A lot of hot air. *Pediatrics* 118:1962-1970.
Press Coverage: One of the top 7 world news stories on Google's home page Nov 6 2006; featured by hundreds of national and international television news broadcasts, including CNN, The Today Show (NBC), Good Morning America (ABC), The Early Show (CBS), and As It Happens (CBC). It was discussed on dozens of radio and talk show programs, including NPR, The CBS Radio Network, BBC News, Charles Osgood and Paul Harvey. Hundreds of newspapers, magazines, e-zines, and web blogs covered the story, including The New York Times, The Times (London), The Wall Street Journal, Associated Press, Reuters, Science, Reader's Digest, Parenting Magazine, and many others.
91. **Clayton, D. H.,** R. D. Price, and K. P. Johnson. 2006. Two new species of *Dennyus* (*Collodennyus*) chewing louse (Phthiraptera: Amblycera: Menoponidae) from swiftlets (Apodiformes: Apodidae). *Proceedings of the Entomological Society of Washington* 108: 306-311.
90. Bush, S. E., E. Sohn and **D. H. Clayton.** 2006. Ecomorphology of parasite attachment: experiments with feather lice. *Journal of Parasitology* 92:25-31.
89. Bush, S. E., B. R. Moyer, D. Kim, J. Lever and **D. H. Clayton.** 2006. Is melanin a defense against feather-feeding lice? *The Auk* 123:153-161.
88. Iwaniuk, A. N., **D. H. Clayton** and D. R.W. Wylie. 2006. Echolocation, vocal learning, auditory localization and the relative size of the avian auditory midbrain nucleus (MLd). *Behavioural Brain Research* 167:305-317
87. Adams, R. J., R. D. Price and **D. H. Clayton.** 2005. Taxonomic revision of Old World members of the feather louse genus *Columbicola* (Phthiraptera: Ischnocera), including descriptions of eight new species. *J. Natural History* 39:3545-3618.
86. Johnson, K. P., S. E. Bush and **D. H. Clayton.** 2005. Correlated evolution of host and parasite body size: Tests of Harrison's Rule using birds and lice. *Evolution* 59:1744-1753.
85. Price, J. J., K. P. Johnson, S. E. Bush and **D. H. Clayton.** 2005. Phylogenetic relationships of the Papuan Swiftlet and implications for the evolution of avian echolocation. *Ibis* 147:790-796
84. Douglas III, H. D., J. R. Malenke and **D. H. Clayton.** 2005. Is the citrus-like plumage odorant of Crested Auklets (*Aethia cristatella*) a defense against lice? *J. Ornithology* 146:111-115.
83. **Clayton, D. H., B. R. Moyer,** S. E. Bush, D. Gardiner, B. Rhodes, T. Jones and F. Goller. 2005. Adaptive significance of avian beak morphology for ectoparasite control. *Proceedings of the Royal Society of London: B* 272:811-817.
Press Coverage: New York Times.
82. Walther, B. A. and **D. H. Clayton.** 2004. Elaborate ornaments are costly to maintain: Evidence for high maintenance handicaps. *Behavioural Ecology.* 16:89-95.

81. Reed D. L., V. S. Smith, A. R. Rogers, S. L. Hammond and **D. H. Clayton**. 2004. Molecular genetic analysis of human lice supports direct contact between modern and archaic humans. *Public Library of Science Biology* 2:1972-1983.
Press coverage: USA Today, New York Times, L.A. Times, Washington Post, Science (E. Pennisi, 8 Oct 2004, Vol 306, p 210.), Discovery News, Canadian Broadcasting Corp and *many* others.
80. Moyer, B. R. and **D. H. Clayton**. 2004. Avian defenses against ectoparasites. Pp. 241-257 in H. F. van Emden and M. Rothschild (ed.s) *Insect and Bird Interactions* Intercept Ltd., Andover, U.K. 301pp.
79. Johnson, K. P. and **D. H. Clayton**. 2004. Untangling coevolutionary history. *Systematic Biology* 53:92-94.
78. **Clayton, D. H.**, S. E. Bush and K. P. Johnson. 2004. The ecology of congruence: Past meets present. *Systematic Biology* 53:165-173.
77. Price, J. J., K. P. Johnson and **D. H. Clayton**. 2004. The evolution of echolocation in swiftlets. *J. Avian Biology* 35:135-143.
76. **Clayton, D. H.**, S. E. Bush (formerly Al-Tamimi) and K. P. Johnson. 2003. The ecological basis of coevolutionary history. Pp. 310-341 in R. D. M. Page (ed.) *Tangled trees: phylogeny, cospeciation and coevolution*. University of Chicago Press.
75. Johnson, K. P. and **D. H. Clayton**. 2003. Coevolutionary history of ecological replicates: comparing phylogenies of wing and body lice to Columbiform hosts. Pp. 262-286 in R. D. M. Page (ed.) *Tangled trees: phylogeny, cospeciation and coevolution*. University of Chicago Press.
74. **Clayton, D. H.**, S. E. Bush, B. M. Goates and K. P. Johnson. 2003. Host defense reinforces host-parasite cospeciation. *PNAS* 100:15694-15699.
Press coverage: Salt Lake Tribune, Japan Times.
73. **Clayton, D. H.** and K. P. Johnson. 2003. Linking coevolutionary history to ecological processes: Doves and lice. *Evolution* 57:2335-2341
72. Price, R. D., R. L. Palma and **D. H. Clayton**. 2003. Taxonomic review of the genus *Saemundssonina* Timmerman (Phthiraptera: Philoptera) from the Alcidae (Aves: Charadriiformes), with description of a new species and new host-lice records. *Proceedings of the Washington Entomological Society* 105: 915-924.
71. Moyer, B. R., A. N. Rock and **D. H. Clayton**. 2003. An experimental test of the importance of preen oil in Rock Doves (*Columba livia*). *Auk* 120: 490-496.
70. Johnson, K. P., R. H. Cruickshank, V. S. Smith, R. J. Adams, R. D. M. Page and **D. H. Clayton**. 2003. Dramatically elevated rate of mitochondrial substitution in lice (Insecta: Phthiraptera). *Molecular Phylogenetics and Evolution* 26:231-242.
69. Johnson, K.P., R.J. Adams, R.D.M. Page and **D.H. Clayton**. 2003. When do parasites fail to speciate in response to host speciation? *Systematic Biology* 52:37-47.

68. Johnson, K. P. and **D. H. Clayton**. 2003. The biology, ecology, and evolution of chewing lice. In Price, R. D., R. A. Hellenthal, R. L. Palma, K. P. Johnson and D. H. Clayton. *The chewing lice: World checklist and biological overview*. Illinois Natural History Survey Special Publication 24. 501pp. Champaign, IL
67. **BOOK:** Price, R. D., R. A. Hellenthal, R. L. Palma, K. P. Johnson and **D. H. Clayton**. 2003. *The chewing lice: World checklist and biological overview*. Illinois Natural History Survey Special Publication 24. Illinois Natural History Survey, Champaign, IL. 501pp.
66. Johnson, K. P., R. J. Adams and **D. H. Clayton**. 2002. The phylogeny of the louse genus *Brueelia* does not reflect host phylogeny. *Biological Journal of the Linnean Society* 77:233-247.
65. Moyer, B. R., A. T. Peterson and **D. H. Clayton**. 2002. Influence of bill shape on ectoparasite load in Western Scrub-jays. *Condor* 104:675-678.
64. Moyer, B. R., D. M. Drown and **D. H. Clayton**. 2002. Low humidity reduces ectoparasite pressure: Implications for host life history evolution. *Oikos* 97:223-228.
63. Moyer, B. R., D. W. Gardiner and **D. H. Clayton**. 2002. Impact of feather molt on ectoparasites: Looks can be deceiving. *Oecologia* 131:203-210.
Press coverage: Science News. 2001, p 139. Oops. New feathers turn out lousy.
62. Johnson, K. P., B. L. Williams, D. M. Drown, R. J. Adams and **D. H. Clayton**. 2002. The population genetics of host specificity: Genetic differentiation in dove lice (Insecta: Phthiraptera). *Molecular Ecology*. 11:25-38 (and cover).
61. **Clayton, D. H.** and D. M. Drown. 2001. Critical evaluation of five methods for quantifying chewing lice (Insecta: Phthiraptera). *Journal of Parasitology* 87:1291-1300.
60. Reed, D. L., B. R. Moyer and **D. H. Clayton**. 2001. Risk that websites could break code of anonymity. *Nature* 413:347.
59. Johnson, K. P., S. de Kort, K. Dinwoodey, A. C. Mateman, C. ten Cate, C. M. Lessells, and **D. H. Clayton**. 2001. A molecular phylogeny of the dove genus *Streptopelia*. *Auk* 118:874-887.
58. **Clayton, D. H.** and B. A. Walther. 2001. Influence of host ecology and morphology on the diversity of Neotropical bird lice. *Oikos* 94: 455-467.
Featured by *Science*. Editors' Choice - Ecology/Evolution 2001. 294:15.
57. Johnson, K. P., R. J. Adams and **D. H. Clayton**. 2001. Molecular systematics of Gonioididae (Insecta: Phthiraptera). *Journal of Parasitology* 87: 862-869.
56. **Clayton, D. H.** and K. P. Johnson. 2001. Lice as probes. *Trends in Ecology and Evolution* 16:433.
55. Cruickshank, R. H., K. P. Johnson, V. S. Smith, R. J. Adams, **D. H. Clayton** and R. D. M. Page. 2001. Phylogenetic analysis of partial sequences of elongation factor 1 alpha identifies major groups of lice (Insecta: Phthiraptera). *Molecular Phylogenetics and Evolution* 19:202-215.

54. **Clayton, D. H.** and **K. P. Johnson**. 2001. What's bugging brood parasites? *Trends in Ecology and Evolution* 16:9-10.
53. **Johnson, K. P., D. M. Drown** and **D. H. Clayton**. 2001. A data based parsimony method of cophylogenetic analysis. *Zoologica Scripta* 30:79-87.
52. **Johnson, K. P.** and **D. H. Clayton**. 2000. A molecular phylogeny of the dove genus *Zenaida*: Mitochondrial and nuclear DNA sequences. *Condor* 102: 864-870.
51. **Clayton, D. H.** and **K. P. Johnson**. 2000. Using molecular genetic data to test species limits of non-echolocating Philippine swiftlets (*Collocalia*). *Sylvatrop: Technical Journal of Philippine Ecosystems and Natural Resources* 10:70-77.
50. Price, R. D., **D. H. Clayton** and **R. J. Adams**. 2000. Pigeon lice down under: Taxonomy of Australian *Campanulotes* (Phthiraptera: Philopteridae), with a description of *C. durdeni* n. sp. *Journal of Parasitology* 86: 948-950.
49. **Johnson, K. P.** and **D. H. Clayton**. 2000. Nuclear and mitochondrial genes contain similar phylogenetic signal for pigeons and doves (Aves: Columbiformes). *Molecular Phylogenetics and Evolution* 14: 141-151.
48. **Johnson, K. P.** and **D. H. Clayton**. 1999. Swiftlets on islands: genetics and phylogeny of the Seychelles and Mascarene swiftlets. *Phelsuma* 7:9-13.
47. **Clayton, D. H., P. L. M. Lee, D. M. Tompkins** and E. D. Brodie III. 1999. Reciprocal natural selection on host-parasite phenotypes. *American Naturalist* 154: 261-270.
46. Price, R. D., **D. H. Clayton** and R. A. Hellenthal. 1999. Taxonomic review of *Physconelloides* (Phthiraptera: Philopteridae) from the Columbiformes (Aves), including descriptions of three new species. *Journal of Medical Entomology* 36:195-206.
45. **Clayton, D. H.** and R. D. Price. 1999. Taxonomy of New World *Columbicola* (Phthiraptera: Philopteridae) from the Columbiformes (Aves), with descriptions of five new species. *Annals of the Entomological Society of America* 92: 675-685.
44. **Walther, B. A., D. H. Clayton** and R. D. Gregory. 1999. Showiness of Neotropical birds in relation to ectoparasite abundance and foraging stratum *Oikos* 87: 157-165.
43. **Clayton, D. H.** 1999. Feather-busting bacteria. *Auk* 116:302-304.
42. **Tompkins, D. M.** and **D. H. Clayton**. 1999. Host resources govern the specificity of swiftlet lice: Size matters. *Journal of Animal Ecology* 68:489-500.
Perspective article: Timms, R. and A. F. Read. 1999. What makes a specialist special? *Trends in Ecology and Evolution* 14:333-334.
41. **Clayton, D. H.** and R. D. Price. 1998. Taxonomic review of *Cotingacola* (Phthiraptera: Philopteridae) from the cotingas (Passeriformes: Cotingidae), with descriptions of two new species. *Journal of Medical Entomology* 35:732-739.
40. Page, R. D. M., **P. L. M. Lee, S. A. Becher, R. Griffiths** and **D. H. Clayton**. 1998. A different tempo of mitochondrial evolution in birds and their parasitic lice. *Molecular Phylogenetics and Evolution* 9:276-293.

39. Price, R. D. and **D. H. Clayton**. 1997. Two new species of *Dennyus* (*Ctenodennyus*) lice (Phthiraptera: Menoponidae) from swiftlets (Apodiformes: Apodidae). *Journal of the Kansas Entomological Society* 70:4-10.
38. Walther, B. A. and **D. H. Clayton**. 1997. Dust-ruffling: a simple method for quantifying the ectoparasite loads of live birds. *Journal of Field Ornithology* 68:509-518.
37. **Clayton, D. H.** and B. A. Walther. 1997. Collection and quantification of arthropod parasites of birds. Pp. 419-440 in D. H. Clayton and J. Moore (eds.) *Host-parasite evolution: General principles and avian models*. Oxford Univ. Press, England.
36. **BOOK: Clayton, D. H.** and J. Moore, eds. 1997. *Host-parasite evolution: General principles and avian models*. Oxford Univ. Press, England. 473 pp. 20 chapters.
35. Tompkins, D. M., T. Jones and **D. H. Clayton**. 1996. Effect of vertically transmitted ectoparasites on the reproductive success of swifts (*Apus apus*). *Functional Ecology* 10: 733-740.
34. Renaud, F., **D. H. Clayton**, and T. De Meelis. 1996. Biodiversity and evolution in host-parasite associations. *Biodiversity and Conservation* 5:963-974.
33. **Clayton, D. H.**, R. D. Price and R. D. M. Page. 1996. Revision of *Dennyus* (*Collodennyus*) lice (Phthiraptera: Menoponidae) from swiftlets, with descriptions of new taxa and a comparison of host-parasite relationships. *Systematic Entomology* 21:179-204.
32. Lee, P. L. M., **D. H. Clayton**, R. Griffiths and R. D. M. Page. 1996. Does behaviour reflect phylogeny in cave swiftlets (Aves, Apodidae)? A test using relationships inferred from cytochrome-B mtDNA sequences. *Proceedings of the National Academy of Sciences, USA* 93:7091-7096.
31. Page, R. D. M., **D. H. Clayton** and A. M. Paterson. 1996. Lice and cospeciation: A response to Barker. *International Journal for Parasitology* 26:213-218.
30. Price, R. D. and **D. H. Clayton**. 1996. Revision of the Chewing Louse Genus *Formicaphagus* (Phthiraptera: Philopteridae) from Neotropical Antbirds and Gnateaters (Aves: Passeriformes). *Journal of the Kansas Entomological Society* 69: 346-356.
29. Lee, P. L. M. and **D. H. Clayton**. 1995. Population biology of swift (*Apus apus*) ectoparasites in relation to host reproductive success. *Ecological Entomology* 20:43-50.
28. **Clayton, D. H.** and D. M. Tompkins. 1995. Comparative effects of lice and mites on the reproductive success of rock doves (*Columba livia*). *Parasitology* 110:195-206.
27. Walther, B. A., P. Cotgreave, R. D. Price, R. D. Gregory and **D. H. Clayton**. 1995. Sampling effort and parasite species richness. *Parasitology Today* (= *Trends in Parasitology*) 11:306-310
26. Price, R. D. and **D. H. Clayton**. 1995. Review of *Formicaricola* (Phthiraptera: Philopteridae) from Ground Antbirds (Passeriformes: Formicariidae). *Annals of the Entomological Society of America* 88:718-721.

25. Price, R. D. and **D. H. Clayton**. 1995. A new genus and three new species of chewing lice (Phthiraptera: Philopteridae) from Peruvian ovenbirds (Passeriformes: Furnariidae). *Proceedings of the Entomological Society of Washington*. 97: 839-844
24. **Clayton, D. H.** and D. M. Tompkins. 1994. Ectoparasite virulence is linked to mode of transmission. *Proceedings of the Royal Society of London B* 256:211-217.
23. Cotgreave, P. and **D. H. Clayton**. 1994. Comparative analysis of time spent grooming by birds in relation to parasite load. *Behaviour* 131:171-187.
22. **Clayton, D. H.** and P. Cotgreave. 1994. Relationship of bill morphology to grooming behaviour in birds. *Animal Behaviour* 47:195-201.
Press coverage: Anon. 1994. Long bills have their downside. *Discover* 15(5):18.
Anon. 1997. Bird's bill of health? *Nature Australia*; Putnam, C. 1997. The gentle touch. *BBC Wildlife* 15:57.
21. Price, R. D. and **D. H. Clayton**. 1994. Review of the species of *Rallicola* (Phthiraptera: Philopteridae) from the antbirds, ovenbirds and tapaculos (Passeriformes: Dendrocolaptidae). *Journal of Medical Entomology* 31:649-657.
20. **Clayton, D. H.** and P. H. Harvey. 1993. Hanging nests on a phylogenetic tree. *Current Biology* 3:882-883.
19. Booth, D. T., **D. H. Clayton** and B. A. Block. 1993. Experimental demonstration of the energetic cost of parasitism in free-ranging hosts. *Proceedings of the Royal Society of London B* 253:125-129.
18. **Clayton, D. H.** and N. D. Wolfe. 1993. The adaptive significance of self-medication. *Trends in Ecology and Evolution* 8:60-63.
17. **Clayton, D. H.** and J. G. Vernon. 1993. Common grackles anting with lime fruit and its effect on ectoparasites. *Auk* 110:951-952.
Press coverage: Furlow, B. 1/2000. Kills all known germs. *New Scientist* 22.
16. Price, R. D. and **D. H. Clayton**. 1993. Review of the species of *Rallicola* (Phthiraptera: Philopteridae) from the woodcreepers (Passeriformes: Dendrocolaptinae). *Journal of Medical Entomology* 30:35-46.
15. **Clayton, D. H.**, R. D. Gregory and R. D. Price. 1992. Comparative ecology of neotropical bird lice. *Journal of Animal Ecology* 61:781-795.
14. **Clayton, D. H.**, S. G. Pruett-Jones and R. Lande. 1992. Reappraisal of the interspecific prediction of parasite-mediated sexual selection: Opportunity knocks. *Journal of Theoretical Biology* 157:95-108.
13. **Clayton, D. H.** 1991. Coevolution of avian grooming and ectoparasite avoidance. Pp. 258-289 in J.E. Loye and M. Zuk (eds.) *Bird - parasite Interactions: Ecology, Evolution and Behaviour*. Oxford Univ. Press, Oxford, England.
12. **Clayton, D. H.** 1991. Influence of parasites on host sexual selection. *Parasitology Today* (= *Trends in Parasitology*) 7:329-334 (and cover).

11. **Clayton, D. H.** 1990. Mate choice in experimentally parasitized Rock Doves: Lousy males lose. *American Zoologist (= Integrative and Comparative Biology)* 30:251-262.
Textbook coverage: Begon, Harper, Townsend. 1998. *Ecology*. Blackwell Scientific Publications; Ricklefs, R. E. and G. L. Miller. 2000. *Ecology*. W. H. Freeman. (pp 695-696); Ricklefs, R. E. 2001. *The economy of nature*. W. H. Freeman. (p 234); Gill, F. B. 1995. *Ornithology*. W. H. Freeman. (pp 77-79).
10. **Clayton, D. H.** 1990. Host specificity of *Strigiphilus* owl lice (Ischnocera: Philopteridae), with the description of new species and host associations. *Journal of Medical Entomology* 27:257-265.
Press coverage: Science. 2003. 299:635. NetWatch – Taxonomists at Play (report on website featuring *Strigiphilus garylarsoni*, described in this paper. *S. garylarsoni* also featured in *The Prehistory of the Far Side* by Gary Larson (1989, Andrews & McMeel, Kansas City), and on the game shows *Jeopardy* and *Who Wants to be a Millionaire*?
9. **Clayton, D. H.** and R. D. Price. 1989. *Colpocephalum holzenthali* N. Sp. (Mallophaga: Menoponidae) from the Barred Forest-falcon *Micrastur ruficollis* (Falconidae) in Peru. *Journal of Parasitology* 75:505-507.
8. Price, R. D. and **D. H. Clayton**. 1989. *Kaysius emersoni* (Mallophaga: Menoponidae), a new genus and new species of louse from the Wedge-billed Woodcreeper (Passeriformes: Dendrocolaptidae) of Peru. *Annals of the Entomology Society of America* 82:29-31.
7. Davis, D. R., **D. H. Clayton**, D. H. Janzen and A. P. Brooke. 1986. Neotropical Tineidae, II: Biological notes and descriptions of two new moths phoretic on spiny pocket mice in Costa Rica (Lepidoptera: Tineoidea). *Proceedings of the Entomological Society of Washington* 88:98-109.
6. **Clayton, D. H.** 1985. Nocturnal foraging of Yellow-crowned Night Herons in the Bahamas. *Florida Field Naturalist* 13:34-35.
5. Hill, S. B. and **D. H. Clayton**. 1985. Wildlife after dark: A review of nocturnal observation techniques. *Bell Museum of Natural History Occasional Paper* 17:1-23. University of Minnesota, Minneapolis.
4. **Clayton, D. H.** and R. D. Price. 1984. Taxonomy of the *Strigiphilus cursitans* species group (Ischnocera: Philopteridae), parasites of owls. *Annals of the Entomological Society of America* 77:340-363 (and frontpiece).
3. Price, R. D. and **D.H. Clayton**. 1984. Two new subgenera and three new species of *Psittaconirmus* (Mallophaga: Philopteridae) from south pacific parrots. *International Journal of Entomology* 26:241-248.
2. Price, R. D. and **D. H. Clayton**. 1983. A review of the genus *Psittaconirmus* (Mallophaga: Philopteridae) from south pacific parrots. *International Journal of Entomology* 25:56-70.
1. **Clayton, D. H.**, C. L. Hartley and M. Gochfeld. 1978. Two optical tracking devices for nocturnal field studies of birds. *Colonial Waterbirds* 2: 79-83.

Dale H. Clayton

Additional publications: Book reviews, abstracts and correspondence:

Clayton, D. H. 2009. Review of Thomas et al. Ecology and Evolution of Parasitism. Oxford University Press. *Quarterly Review of Biology*.

Clayton, D. H. 2006. Review of Combes, C. 2005. *The Art of Being a Parasite*. University of Chicago Press. *Trends in Parasitology*. 2006.

Clayton, D. H. 1997. Review of Johnston, R. F. & Janiga, M. 1995. *Feral Pigeons*. New York: Oxford University Press. *Ibis*.139:206-207.

Clayton, D. H. 1993. Impact of chewing lice on energetics, reproduction and survival of feral rock doves. In *Diseases and Parasites of Birds*. British Ornithologists' Union, Friesen Druck, 26340, Zetel, Germany.

Booth, D. T., **D. H. Clayton** and B. A. Block. 1991. Ectoparasites increase energy metabolism of their hosts. *American Zoologist* 31:124A.

Clayton, D. H. 1989. Letter to the author. Pp 170-171 in Larson, Gary. *The Prehistory of the Far Side*. Andrews and McMeel, Kansas City.

New Taxa Described: Author of 2 new genera and 74 new species of ectoparasites

Foreign Field Work: Australia, Bahamas, Borneo, China, Costa Rica, Fiji, Galapagos, India, Indonesia, Jamaica, Mauritius, Mexico, New Zealand, Panama, Papua New Guinea, Peru, Philippines, Seychelles, Slovakia, United Kingdom, W. Malaysia, Western Samoa

Additional Education: Tropical Ecology (O.T.S.), Universidad de Costa Rica, 1984
General and Med-Vet Acarology, Ohio State University, 1985
Foreign Language: Spanish

Eponyms:

Eutrichophilus claytoni

ex Prehensile-tailed Porcupine (*Coendou spinosus*), Timm & Price 1994

Myrsidea claytoni

ex Puff-backed Bulbul (*Pycnonotus eutilotus*), Hellenthal and Price 2003

Columbicola claytoni

ex Purple-tailed Imperial Pigeon (*Ducula rufigaster*), Bush & Price 2006

Echinophilopterus claytoni

ex Blue Bonnet Parrot (*Northiella haematogaster*), Price & Johnson 2007

Myrsidea daleclaytoni

Dale H. Clayton

ex Violaceous Jay (*Cyanocorax v. violaceus*), Valim and Cicchino 2015

Lemurpediculus claytoni

ex Sibree's dwarf lemur (*Cheirogaleus sibreei*), Durden, Blanco and Seabolt 2017

Courses taught (not including guest lectures and research supervised):

- 2021: Ornithology (Biol 5350) Univ of Utah
Ecology and Evolution (Biol 3410) University of Utah
- 2020: Ornithology (Biol 5350) Univ of Utah
Ornithology Field Lab (Ornithology 5355) Univ of Utah
Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
Graduate fellowship writing (Biol 7306)) Univ of Utah
- 2019: Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
1 semester sabbatical
- 2018: Ecology and Evolution (Biol 3410) University of Utah
Desert Ecology Field Course (Biol 5545) University of Utah
Faculty Research Seminar (Biol 2870) University of Utah
Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
- 2017: Ecology and Evolution (Biol 3410) University of Utah
Desert Ecology Field Course (Biol 5545) University of Utah
Freshman Faculty Seminar (Biol 3960) University of Utah
Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
- 2016: Ecology and Evolution (Biol 3410) University of Utah
Desert Ecology Field Course (Biol 5545) University of Utah
Freshman Faculty Seminar (Biol 3960) University of Utah
- 2015: Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
Ecology and Evolution (Biol 3410) University of Utah
Coordinator: Biology Boot Camp (Biol 7964) University of Utah
- 2014: Ecology and Evolution (Biol 3410) University of Utah
- 2013: Desert Ecology Field Course (Biol 5545) University of Utah
Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
- 2012: Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
Ecology and Evolution (Biol 3410) University of Utah
- 2011: Advanced Field Ornithology (Biol 5395) University of Utah
Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah

- Coordinator: Biology Boot Camp (Biol 7964) University of Utah
- 2010: Ecology and Evolution (Biol 3410) Univ. of Utah & *1 semester sabbatical*
Advanced Topics in Ecology and Evolution (Biol 7964) Univ of Utah
Biology Boot Camp (Biol 7964) University of Utah
- 2009: Advanced Field Ornithology (Biol 5395) University of Utah
Biology Boot Camp (Biol 7964) University of Utah
- 2008: Ecology and Evolution (Biol 3410) University of Utah & *1 semester leave*
- 2007: Advanced Field Ornithology (Biol 5395) University of Utah
Graduate Core Seminar: Ecological Speciation, Univ. of Utah
- 2006: Ornithology (Biol 5385) University of Utah
Ecology and Evolution (Biol 3410) University of Utah
Graduate Core Seminar: Geographic Mosaic of Coevolution, Univ. of Utah
- 2005: Advanced Field Ornithology (Biol 5395) University of Utah
- 2004: Ornithology (Biol 5385) University of Utah
Ecology and Evolution (Biol 3410) University of Utah
Graduate Core Seminar: Ecology of Adaptive Radiation, Univ. of Utah
- 2003: Advanced Field Ornithology (Biol 5395) University of Utah
- 2002: Ecology and Evolution (Biol 3410) University of Utah & *1 semester sabbatical*
- 2001: Advanced Field Ornithology (Biol 5395) University of Utah
- 2000: Advanced Field Ornithology (Biol 5395) University of Utah
Ornithology (Biol 5385) University of Utah
Faculty Research Forum (Biol 7961/4) University of Utah
- 1999: Organismal Diversity, Form & Function (Biol 2002), University of Utah
Ornithology (Biol 5385) Univ. of Utah
- 1998: Organismal Diversity, Form & Function (Biol 2002), University of Utah
Ornithology (Biol 5385) University of Utah
Graduate Core Seminar: Host-parasite Evolution, University of Utah
- 1997: Ornithology (Biol 5385) University of Utah
- 1992-96: Coordinator/Lecturer: Introduction to Ecology, Oxford University
Coordinator: Field Ecology, Oxford University

Dale H. Clayton

- 1991-95: Tutor in Conservation, Ecology, Evolution & Parasitology, Oxford
- 1986-87: Teaching Assistant: Habitats & Organisms, University of Chicago
- 1984-85: Teaching Assistant: Evolutionary Ecology, University of Chicago
- 1983: Lecturer: Introduction to Evolution, Univ. Minnesota Extension College
- 1982: Teaching Assistant: Birds of Jamaica, Earthwatch, Inc.
- 1981: Teaching Assistant: Field Ornithology, University of Minnesota

Service:

- 1988-Present: Reviewer of 100's of manuscripts, grant applications and other proposals.
- 2021: School of Biological Sciences Website Committee (chair), Univ of Utah
Thure Cerling TFR committee, School of Biological Sciences, U. of U.
- 2020: Seminar Series committee, School of Biological Sciences, Univ of Utah
RPT Selection Board, School of Biological Sciences, Univ of Utah
Chair, Bryn Dentinger RPT committee, School of Biological Sciences, U. of U.
- 1996-Present: Graduate student committees (several per year), University of Utah
- 2019-20: American Society of Parasitologists Nominating & Tellers Committee
Ofer Rog RPT committee, Dept. of Biology, U. of U.
Honors Committee, School of Biological Sciences, Univ of Utah
- 2018-19: Colin Dale RPT committee, Dept. of Biology, U. of U.
- 2016-19: University of Utah Institutional Animal Care and Use Committee
- 2017: Ph.D. Examiner, Marlene Dupraz, Centre Méditerranéen Environnement et Biodiversité,
Montpellier, France
- 2016-17: Department of Biology Animal Care Committee
Michael Shapiro RPT committee, Dept. Biology, U. of U.
- 2015: Search committee: Animal Technologist (in charge of animal facility)
Cagan Sekercioglu RPT committee, Dept. Biology, U. of U.
- 2014: Co-organizer (with S. Bush) of the Fifth International Conference of Phthirapterists,
Park City Utah, August 2014.
- 2013-16: Dept. of Biology Executive Committee
Dept. of Biology Animal Care Committee
- 2011-14: Executive Committee, Univ. of Utah Entrepreneurial Faculty Scholars

(Co-organizer of first EFS annual retreat)

- 2013: Cagan Sekercioglu RPT committee chair, Dept. Biology, U. of U.
- 2012: Michael Shapiro RPT committee, Dept. Biology, Univ. of Utah
- 2011-13: Henry Baldwin Ward Medal Committee, American Society of Parasitologists (Chair 2013)
- 2011-12: Biology Dept. Graduate Admissions Committee, Univ. of Utah (co-Chair)
Microbial Ecology Faculty Search Committee, Univ. of Utah
- 2010-11: Univ. of Utah Undergrad Innovation Scholars Program Steering Committee
Univ. of Utah Entrepreneurial Faculty Scholar
Biology Department Graduate Admissions Committee, Univ. of Utah
Univ. of Utah Global Change & Ecosystem Center (Biol Dept representative)
- 2010: NSF Population and Community Ecology Panel
- 2009-12: American Ornithologists' Union Elective Members & Fellows Committee
- 2009-10: Biology Departmental ad hoc website design committee, Univ. of Utah
Biology Department Graduate Admissions Committee, Univ. of Utah
- 2006-10: College of Science Curriculum Committee, University of Utah
(Chair in 2010)
- 2009: Michael Shapiro RPT committee, Dept. Biology, Univ. of Utah
- 2008-11: Entrada Field Station & Education Center Advisory Committee, U of Utah
- 2008-09: Computer Advisory Committee, University of Utah, Biology Department
- 2008: Guest Editor, Proceedings of the National Academy of Sciences, USA
- 2007-09: Board of Directors, Larada Sciences Inc., Salt Lake City, Utah
- 2006-08: Secretary, Society for the Study of Evolution
- 2003-08: Chair: Safety Committee, University of Utah, Biology Department
Animal Care Committee, University of Utah, Biology Department
- 2005-06: Living World Observatory Advisory Group: Utah Museum of Natural History
- 2004-05: Chair: Organismal Evolutionary Biology Faculty Search Committee
- 2001-05: Editorial Board, The American Naturalist
- 2003: NSF PEET Panel
- 2002: Executive Committee, 2nd International Congress on Phthiraptera (Australia)
Scientific Committee, 2nd International Congress on Phthiraptera (Australia)
- 1999-02: Curriculum Committee, University of Utah, Biology Department
- 1997-02: Board of Directors, Tracy Aviary, Salt Lake City, Utah
Coordinator, Tracy Aviary Distinguished Lecturer Series, Salt Lake City, Utah

- 2001: Acting Chair, Lynn Bohs RPT Committee
- 2000-01: University of Utah Academic Senate
- 1999-01: Executive Committee, University of Utah, Biology Department (2 terms)
- 1999: NSF Population Biology Panel
- 1997-00: Graduate Program Committee, University of Utah, Biology Department
Red Butte Canyon Committee, University of Utah, Biology Department
- 1996-97: Graduate Admissions Committee, University of Utah, Biology Department
- 1991-96: Graduate student committees (6), Oxford University
- 1996: Internal examiner, Doctoral defense of N. H. Ogden, Oxford University
- 1994: Internal examiner, Doctoral defense of J. P. Webster, Oxford University
- 1992: Biology Advisor, Manchester College, Oxford University
Christopher Welch Scholarship Committee, Oxford University
Internal examiner, Doctoral defense of S. A. Collins, Oxford University

Presentations (Invited):

- 2020: Bessey Lecture, Dept. of Ecol., Evol. & Organismal Biol., Iowa State U., Ames
EEOB/EEB Interdepartmental Program seminar, Iowa State U. Ames, Iowa.
Ecology and Evolutionary Biology, Univ. of California, Santa Cruz (by Zoom)
TFR Seminar, School of Biological Sciences, University of Utah, Salt Lake City
- 2019: Guest lecture, Gerace Research Center, University of the Bahamas, San Salvador.
- 2018: Keynote presentation: International Ornithological Congress, Vancouver, Canada
- 2017: American Museum of Natural History, New York
Museum of Vertebrate Zoology, University of California, Berkeley
Royal Society Mtg on Parasite Avoidance Behaviour, Newport Pagnell, England
Plenary lecture, Entomological Society of Canada Annual Meeting, Winnipeg
Illinois Natural History Survey, University of Illinois, Urbana
Douglas Schemske Retirement Symposium, University of Illinois, Chicago
- 2016: Centre Méditerranéen Environnement et Biodiversité, Montpellier, France
Ecology and Evolutionary Biology class, University of Connecticut (Skype)
Larada Sciences, 4th Service Provider Summit, Salt Lake City, Utah
- 2015: Institute for High Mountain Biology, Žilina University, Slovak Republic
Hungarian Natural History Museum, Budapest
Dept. of Biology, University of Tulsa, Oklahoma
Larada Sciences, 3rd Service Provider Summit, Park City, Utah
TFR Seminar, Dept. of Biology, University of Utah, Salt Lake City
Microbial Pathogenesis Seminar Series, University of Utah, Salt Lake City

- Galápagos symposium, AAAS Pacific Division, San Francisco (co- Knutie)
Arthropods & Wildlife symposium, Ent. Soc. America, Minneapolis (co- Knutie)
- 2014: Dept. of Zoology & Physiology, University of Wyoming, Laramie
Research Administration NAKAMA seminar, Univ. of Utah
- 2013: School of Biological Sciences, Washington State University, Pullman
Bird-parasite symposium, American Ornithologists' Union mtg, Chicago, IL,
Texas A&M University, College Station
Utah Soaring Association, Salt Lake City
Great Salt Lake Audubon Society
- 2012: Division of Biological Sciences, University of Montana, Missoula
Larada Sciences, 1st Annual Service Provider Summit, Salt Lake City
- 2011: Dept. of Zoology & Physiology, University of Wyoming, Laramie
Hodson Alumni Award lecture, Dept of Entomology, Univ. of Minnesota
Inst. of Arthropodology & Parasitology, Georgia Southern Univ., Statesboro
Science Movie Night, Utah Museum of Natural History, Salt Lake City
- 2010: Dept of Ecology and Evolution, University of Arizona, Tucson
Griswold Lecture, Dept. of Entomology, Cornell University, Ithaca, New York
Cornell Laboratory of Ornithology, Cornell University, Ithaca, New York
SUNY College of Environmental Science & Forestry, Syracuse, New York
New York Entomological Society, Amer Mus of Nat Hist, New York City
Galapagos National Park Headquarters, Santa Cruz Island, Galapagos, Ecuador
Departmental Seminar, Dept. of Biology, University of Utah, Salt Lake City
- 2009: Center for Infectious Disease Dynamics, Penn. State Univ., State College.
Illinois Natural History Survey, Urbana, IL.
Faculty Dinner: Dept. of Biology, University of Utah, Salt Lake City
Presenter: Panel discussion on commercialization, University of Utah
Stability, Conflict and Cooperation symposium; International Symbiosis
Society Congress; Madison, Wisconsin
- 2008: Co-convenor and presenter: "Evolutionary Ecology of Host-ectoparasite
Interactions" symposium, Amer Society of Parasitologists, Arlington, TX
E. Paul Catts Memorial Lecture, Washington State Univ., Pullman
Dept. of Entomology, Washington State Univ., Pullman
Dept. of Biology, Indiana University, Bloomington
H. B. Ward Lecture, American Society of Parasitologists, Arlington, TX
Utah Innovation Awards Competition, Salt Lake City
Keynote Address: Utah Ornithological Society Annual Meeting, Ogden UT
Honors Biology, West High School, Salt Lake City
- 2007: American Ornithologists' Union Coevolution Symposium, Laramie, WY
Dept. of Biology, Univ. Rochester, New York
Dept. Ecology & Evolutionary Biology, Univ. Kansas, Lawrence
N. Kingston Memorial Lecture, Rocky Mt. Conf. Parasitologists, Denver CO
Cedar Point Biological Station, Univ. of Nebraska, Lincoln
Academy for Math, Engineering & Science, Salt Lake City
Realms of Inquiry School, Salt Lake City

- 2006: Dept. Ecology, Evolution & Marine Biology, Univ. Calif., Santa Barbara
College of Geography & Biology, Guizhou Normal University, Guiyang, China
Department of Entomology, University of California, Riverside
Entomological Society of America Symposium, Indianapolis, IN
Plenary: Third Intl Congress on Phthiraptera, Buenos Aires, Argentina
- 2005: American Society Parasitologists Presidential & Student Symposia, Mobile, AL
American Ornithologists' Union Bird-parasite Symposium, Santa Barbara, CA
Technology Connection Forum, University of Utah, Salt Lake City, UT
Utah School Nurse Association Annual Conference, Provo, UT
- 2004: Strickland Memorial Lecture, University of Alberta, Canada
Department of Biological Sciences, University of Alberta, Canada
Department of Integrative Biology, Brigham Young University, Provo Utah
Univ. Utah College of Science "Science at Breakfast" series, Salt Lake City, Utah
- 2003: Department of Biological Sciences, Louisiana State University, Baton Rouge
- 2002: Co-convenor and presenter: "Untangling coevolutionary history" symposium;
Society of Systematic Biologists, Urbana-Champaign, Illinois
Co-convenor and presenter: "Biology and epidemiology of lice" symposium; II
International Congress on Phthiraptera (Brisbane, Australia)
Department of Microbiology & Parasitology, Univ. of Queensland, Australia
Primary Children's Medical Center, Salt Lake City, Utah
University of Utah Genetic Science Learning Center
Utah Museum of Natural History Science Movie Night
- 2001: Department of Biology, University of Missouri, St. Louis
Department of Biology, Boise State University, Boise, Idaho
Great Salt Lake Audubon Society, Salt Lake City, Utah
Farworks Inc., Seattle (Cartoonist Gary Larson's publishing company)
Monte Lloyd Memorial Symposium, University of Chicago.
- 2000: Department of Ecology, Evolution & Behavior, University of Minnesota
Department of Fisheries and Wildlife, Oregon State University
- 1999: Cospeciation symp, Systematics Assoc. Biennial Conf., Glasgow, Scotland
Clark Ornithology symposium, "Life among feathers", Ohio Wesleyan Univ.
- 1998: Department of Biology, Utah State University, Logan
- 1997: Royal Entomological Society Conference, "Insects and birds", Reading, UK
- 1996: Colloquium in the Life Sciences, Colorado State University, Ft. Collins
- 1995: NERC Centre for Population Biology, Imperial College, Silwood Park
Department of Biology, University of Utah
- 1994: British Society for Parasitology symposium, "Bird Parasites", Bath, England
Centre National Recherche Scientifique symposium, "Swift Biology", Corsica
Co-convenor: "Ecology & Evolution of Parasites & Birds" symposium; Presenter:
"Chemical Defenses" symposium, International Ornithological Congress, Vienna
Department of Zoology, University of Bern, Switzerland
Department of Zoology, Field Museum of Natural History, Chicago

D. F. Morgan School of Biological Sciences, University of Kentucky
Department of Biology, St. John's University, Minnesota

- 1993: British Council meeting on Biodiversity & Coevolution, Paris
European Soc. Evol. Biol. symposium, "Host-parasite Coevolution", Montpellier
Animal Behaviour Society symposium, "Parasites and Behaviour", Davis, CA
British Ornithologists' Union, "Diseases and Parasites of Birds", Cambridge
Department of Zoology, University of Cambridge
Department of Biology, University College, London
Department of Zoology, University of Malaya, Malaysia
- 1992: Department of Ecology and Systematics, Cornell University
- 1991: Department of Zoology, University of Glasgow
- 1990: Facultad de Ciencias, Universidad Nacional Autónoma de México
- 1988: American Society Zoologists symposium, "Parasites and Sexual Selection", San Fran.
Mate Choice symposium, Animal Behavior Society, Springfield, Illinois
Co-convenor and presenter: "Avian Responses to Parasitism" symposium, American
Ornithologists' Union, Fayetteville, Arkansas
Department of Zoology, Oxford University
- 1986: Department of Biology, University of Michigan
Department of Ecology, Ethology and Evolution, University of Illinois

Presentations (Contributed):

- 2018: 6th International Congress on Phthiraptera, Brno, Czech Republic
- 2017: Society for the Study of Evolution, Portland OR
- 2016: Society for the Study of Evolution, Austin TX
North American Ornithological Conference, Washington D. C.
- 2015: Society for the Study of Evolution, Guarujá, Brazil (Villa, Diblasi)
Society for Integrative & Comparative Biology, West Palm Beach, FL (Knutie)
- 2013: Society for the Study of Evolution, Salt Lake City, Utah (Knutie, Villa)
Avian Parasites Symposium, American Ornithologists' Union, Chicago (Knutie, Koop)
- 2012: Society for the Study of Evolution, Ottawa, Ontario, Canada
American Society of Parasiologists, Richmond, VA
North American Ornithological Conference, Vancouver, BC, Canada (Knutie)
- 2011: Society for Integrative & Comparative Biology, Salt Lake City, UT (Knutie)
Ecology and Evolution of Infectious Diseases, Santa Barbara CA (Waite)
Society for Vector Ecology, Flagstaff AZ (Waite)
- 2010: Society for the Study of Evolution, Portland, OR (Waite)

Dale H. Clayton

- 2007: Utah Ornithological Society Annual Meeting, Provo, UT
2004: Society for the Study of Evolution, Ft. Collins, CO
2003: Society for the Study of Evolution, Chico, CA
Animal Behavior Society, Boise, Idaho
Utah Ornithological Society, Salt Lake City, UT
2002: International Ornithological Congress, Beijing, China
2001: American Ornithologists' Union, Seattle, Washington
2000: Society for the Study of Evolution, Bloomington, Indiana
American Ornithologists' Union, St. John's, Newfoundland, Canada
1999: Society for the Study of Evolution, Madison, Wisconsin
Philippine Wildlife Conservation Society, Puerto Princesa, Palawan
1998: Society for the Study of Evolution, Vancouver, British Columbia
1997: Society for the Study of Evolution, Boulder, Colorado
American Ornithologists' Union, Minneapolis, Minnesota
British Society for Parasitologists, Manchester, U.K.
1996: American Ornithologists' Union, Boise, Idaho
German Ornithologists' Society, Melk, Austria
1995: German Ornithologists' Society, Kaiserslautern, Germany
1993: Society for Behavioral Medicine, San Francisco, California
British Society for Parasitology, Leeds, U.K.
1992: Ecological Society of America, Honolulu, Hawaii
Fourth International Behavioral Ecology Congress, Princeton, New Jersey
1991: American Society of Zoologists, Atlanta
1989: Society for the Study of Evolution, Univ. Park, Pennsylvania
1988: American Society of Parasitologists, Wake Forest, North Carolina.

Postdoctoral Associates:

- 2020-21: Jordan Herman, Grooming ecology of American Kestrels
2016-18: Scott Villa, Dimensions of Biodiversity: Expl. Adaptive Radiation
2008-09: Céline Le Bohec, Impact of introduced ectoparasites on Darwin's Finches
Researcher, Centre Scientifique de Monaco
2007-08: Sarah K. Huber, Impact of introduced ectoparasites on Darwin's Finches
Research Assistant Professor, Virginia Inst of Marine Sciences
2000-04: David L. Reed, Molecular systematics of lice and bacterial endosymbionts
Associate Curator of Mammals at the Florida Museum of Natural
History, University of Florida
1997-00: Kevin P. Johnson, Molecular systematics of birds and ectoparasites
Associate Research Scientist, IL Nat. History Survey
1995-96: S. Anette Becher, Molecular genetics of birds and ectoparasites.
Postdoctoral Fellow, St. Andrews University, England

Dale H. Clayton

1992: Andrew T. D. Bennett, Adaptive significance of anting behaviour.
Lecturer, University of Bristol, England

Graduate Students:

- 2020 – present: Matthew Waller, Galapagos mockingbirds as tolerant reservoir hosts.
- 2016-2020: Jordan Herman, Evol. ecology of birds, nest flies & brood parasites.
Conservation Biologist, Hawkwatch International, Salt Lake City
- 2014-19: Graham Goodman, Host-parasite evolutionary ecology.
Visiting Assistant Professor, Hobart & William Smith Colleges
- 2012-18: Sabrina McNew (NSF Predoctoral Fellow), Invasive parasites of Darwin's Finches and Galapagos Mockingbirds.
Rose Postdoctoral Fellow, Cornell University Lab of Ornithology
- 2010-2016: Scott Villa, Host-parasite evolutionary ecology (Ph.D. project).
NIH Postdoctoral Fellow, Emory University, Atlanta.
- 2009-2014: Sarah Knutie, Invasive parasites of Darwin's Finches (Ph.D. project).
Postdoctoral Fellow, University of South Florida (J. Rohr lab).
Currently an Assistant Professor, Univ. Connecticut, Storrs.
- 2006-2012: Jessica Waite, Evol. ecology of an avian malaria vector (Ph.D. project).
Recipient, 2012 Riser Award for outstanding grad research.
Postdoctoral Fellow, Penn State University (Read/Thomas labs)
- 2006-11: Jennifer Koop, Ecological immunology of an invasive parasite of Darwin's Finches (Ph.D. project).
Recipient, 2011 Riser Award for outstanding grad research.
PERT Postdoctoral Fellow, University of Arizona (Whiteman lab).
Assistant Professor of Biology, Univ. of Massachusetts, Dartmouth
- 2006-10: Wendy A. Smith, Endosymbiotic bacteria in feather lice (Ph.D. project).
Scientist: Biofire Diagnostics, Salt Lake City, UT.
- 2002-08: Dukgun Kim, Evolution of crypsis in ectoparasites (M.S. project).
MBA, Olin Business School, Washington Univ., St. Louis
- 2001-07: Christopher Harbison, Ecology of parasite dispersal (Ph.D. project).
Assistant Professor, Siena College, Loudonville, New York
- 2001-07: Jael Malenke, Geographic specificity of parasites (Ph.D. project).
Recipient, 2007 Riser Award for outstanding grad research.
Postdoctoral Researcher, University of Utah (Dearing lab).
- 2003-04: Brad Goates, Control of head lice in children (M.S. project).
Now an M.D. in private practice.

Dale H. Clayton

- 1995-02: Brett R. Moyer, Ph.D. Avian defenses against ectoparasites.
Recipient, 2003 Riser Award for outstanding graduate research.
Teacher on faculty of The Bolles School, Jacksonville, FL.
- 1998-01: Richard J. Adams, M.S. Systematics of *Columbicola* feather lice.
Special Ed. Teacher, Office of Education, Monterey, CA.
- 1993-97: Bruno A. Walther, D. Phil. Comparative studies of bird-ectopar. communities.
Assist. Prof., National Pingtung University of Science & Technology, Taiwan
- 1992-96: Daniel M. Tompkins, D. Phil. Evol. ecology of bird-parasite associations.
Wildlife Epidemiologist, Landcare Research, Dunedin, New Zealand
- 1991-96: Patricia L. M. Lee, D. Phil. Molecular systematics of birds and ectoparasites.
Senior Lecturer, Swansea University, Wales, U.K.

Undergraduate Research Associates:

- 2019-20: Jessica Stanley (Univ Utah Undergrad Res Program)
Andre Watson (Univ Utah Undergrad Res Program)
- 2019: Arthur Carvalho (Univ Utah Undergrad Res Program)
- 2017-18: McKenna Evans (Biology Honors Program)
Yumna Subhani (Independent Research Credit)
- 2016-19: Margaux Klingensmith (Biology Honors Program)
- 2016-18: Andrew Beach (Univ Utah Undergrad Res Program)
- 2015-17: Lane Mulvey (Bioscience Undergrad Research Program)
John Jackson (Independent Research Credit)
- 2014-17: Juan Altuna (Univ Utah Undergrad Res Program)
- 2014-15: Erik Poole (Univ Utah Undergrad Res Program)
2014-16: Angela Hansen (Univ Utah Undergrad Res Program)
2014-15: Hector Zumaeta Santiago (Univ Utah Undergrad Res Program)
- 2012-15: Heidi Montgomery (Univ Utah Undergrad Res Program)
- 2013-14: Eric Middleton (Univ Utah Undergrad Res Program)
Mike Thompson (Univ Utah Undergrad Res Program)
- 2012: Sarah Windes (Univ Utah Undergrad Res Program)
- 2011-12: Ian White (Univ Utah Undergrad Res Program)
- 2010-12: Maria Alejandra Aguilar
Univ Utah Undergrad Res Program Board of Visitors Assistantship
Research Scholar (2010 – 2012)
- 2009-12: Dallas Brewer (Bioscience Undergrad Research Program)
- 2009-10: Corbin Smith (Bioscience Undergrad Research Program)

- Blair Racker (Bioscience Undergrad Research Program)
- 2008-12: Autumn Henry (Bioscience Undergrad Research Program)
- 2008-09: Sung Hong (Hourly student)
- 2008-09: Mariko Nagashima (Bioscience Undergrad Research Program)
Arya Covington (Bioscience Undergrad Research Program)
- 2007-08: Adrienne Smith (Access Scholar; Freshman year)
- 2005-08: Michelle Reed (Bioscience Undergraduate Research Program)
then a technician in an immunology/neuroscience lab, U of Utah.
- 2005-07: Nitasha Newbold (Bioscience Undergraduate Research Program)
Matt Jacobsen (Bioscience Undergraduate Research Program)
then attended Dental School, Creighton University
- 2004-06: Kurtis Birch (Bioscience Undergraduate Research Program)
then attended Boston University School of Medicine
David Slager (NSF REU summer program)
then attended grad school at Utah, then Ohio State Univ.
Sharlei Hsu (Access Scholar and Bioscience Undergraduate Research Program).
- 2003-06: Joe Atkin (Bioscience Undergraduate Research Program)
then attended University of Utah Medical School
- 2005: John Grant (Bioscience Undergraduate Research Program)
then attended UCLA Medical School
- 2003-05: Kevin Wilding (Bioscience Undergraduate Research Program)
then worked for ARUP: Associated Regional and Univ. Pathologists
- 2003-04: Marcy Gardiner (Bioscience Undergraduate Research Program)
- 2003: Robert Memmott (Computer Programming Assistant)
Jake Deines (Bioscience Undergraduate Research Program)
then attended George Washington School of Medicine
- 2002-03: Jackson Lever (Bioscience Undergraduate Research Program)
then attended Medical College of Wisconsin
Michael Cipriano (Computer Programming Assistant; then landed a job at the
Marine Biological Laboratory, Woods Hole, MA
- 2002: Brad Goates (Bioscience Undergraduate Research Program;
then attended M.S. Program, Ecology & Evolution and Medical
School, University of Utah)
Ron Lloyd (Computer Programming Assistant; then for QSI Corp.
Jared Rasmussen (then worked for ARUP: Associated Regional
and University Pathologists.)
- 2001-02: Michael Cottam (Research Assistant;
then attended grad school in Ecology & Evolution, Univ. Florida)
- 2001: Nathan Dahle (Bioscience Undergraduate Research Program;
then attended University of Utah School of Medicine)
Alex Rock (Bioscience Undergraduate Research Program)

Dale H. Clayton

- Connie Sparks (Bioscience Undergraduate Research Program)
Jessica Peck (University wide Undergraduate Research Program)
- 1999-00: Karen Dinwoodey (Bioscience Undergraduate Research Program)
David Gardiner (Bioscience Undergraduate Research Program;
then attended Cornell University School of Veterinary Medicine)
Sarah Nelson (ACCESS Scholar, then attended Salt Lake City Police Academy)
- 1998: Barry Rhodes (Bioscience Undergraduate Research Program;
then attended University of Oklahoma Medical School)
- 1997-99: Sarah Al-Tamimi (Bioscience Undergraduate Research Program;
then attended Ph.D. Program, Ecology & Evolution, University of Utah)
- 1997-98: Tony Jones (Bioscience Undergraduate Research Program;
then attended: Lewis & Clark College of Law: Environmental Law)

High School Research Associates:

- 2014-15: John Jackson, Judge Memorial High School
- 2010: Kamala Ganesh, Utah Bioscience High School Research Program
- 2008- 2009: Chasity Sanderson, Academy for Math, Engineering & Science Internship
- 2001-05: Shaless Hammond, Utah Museum of Nat. History Youth Teaching Program;
then attended Westminster College, Salt Lake City on full scholarship
- 2003: Emily McConnell, Utah Bioscience High School Research Program;
then attended St. Olaf College, MN on a full scholarship.
- 2001: John Andrews, University of Utah Bioscience High School Research Program.
- 2000: Edward Sohn, Science Sterling Scholar; then attended Harvard University
- 1997: Sarah Nelson, Utah Science Search - Robert F. Bennett Scholarship;
then attended University of Utah on a fellowship