

Orgogozo lab September/October Press Review 2014 - Alexandre

1. Abdellaoui, A., Verweij, K. J., & Zietsch, B. P. (2014). No evidence for genetic assortative mating beyond that due to population stratification. *Proceedings of the National Academy of Sciences*, 201410781. Retrieved from Google Scholar.
2. Abouheif, E., & Rafiqi, A. M. (2014). Sex combs find middle ground in evolution debate. *Proceedings of the National Academy of Sciences*, 201415189. Retrieved from Google Scholar.
3. Ahola, V., Lehtonen, R., Somervuo, P., Salmela, L., Koskinen, P., Rastas, P., . . . Hanski, I. (2014). The glanville fritillary genome retains an ancient karyotype and reveals selective chromosomal fusions in lepidoptera. *Nature Communications*, 5, 4737. doi:10.1038/ncomms5737
4. Albergante, L., Blow, J. J., & Newman, T. J. (2014). Buffered qualitative stability explains the robustness and evolvability of transcriptional networks. *ELife*, 3, e02863. Retrieved from Google Scholar.
5. Auersperg, A. M., von Bayern, A. M., Weber, S., Szabadvari, A., Bugnyar, T., & Kacelnik, A. (2014). Social transmission of tool use and tool manufacture in goffin cockatoos (*cacatua goffini*). *Proceedings. Biological Sciences / the Royal Society*, 281(1793). doi:10.1098/rspb.2014.0972
6. Barrón, M. G., Fiston-Lavier, A. S., Petrov, D. A., & González, J. (2014). Population genomics of transposable elements in drosophila. *Annual Review of Genetics*. doi:10.1146/annurev-genet-120213-092359
7. Bastide, H., Yassin, A., Johanning, E. J., & Pool, J. E. (2014). Pigmentation in drosophila melanogaster reaches its maximum in ethiopia and correlates most strongly with ultra-violet radiation in sub-saharan africa. *BMC Evolutionary Biology*, 14, 179. doi:10.1186/s12862-014-0179-y
8. Borgonove, C. M., Cavallari, C. B., Santos, M. H., Rossetti, R., Hartfelder, K., & Manfrin, M. H. (2014). Identification of differentially expressed genes in female drosophila antonietae and drosophila meridionalis in response to host cactus odor. *BMC Evolutionary Biology*, 14, 191. doi:10.1186/s12862-014-0191-2
9. Botelho, J. F., Ossa-Fuentes, L., Soto-Acuña, S., Smith-Paredes, D., Nuñez-León, D., Salinas-Saavedra, M., . . . Vargas, A. O. (2014). New developmental evidence clarifies the evolution of wrist bones in the dinosaur-bird transition. *PLoS Biology*, 12(9), e1001957. doi:10.1371/journal.pbio.1001957
10. Brawand, D., Wagner, C. E., Li, Y. I., Malinsky, M., Keller, I., Fan, S., . . . Di Palma, F. (2014). The genomic substrate for adaptive radiation in african cichlid fish. *Nature*. doi:10.1038/nature13726
11. Briscoe Runquist, R. D., Chu, E., Iverson, J. L., Kopp, J. C., & Moeller, D. A. (2014). Rapid evolution of reproductive isolation between incipient outcrossing and selfing clarkia species. *Evolution; International Journal of Organic Evolution*. doi:10.1111/evo.12488
12. Brodrigg, T. J., McAdam, S. A., Jordan, G. J., & Martins, S. C. (2014). Conifer species adapt to low-rainfall climates by following one of two divergent pathways. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1407930111
13. Brown, E. J., & Bachtrog, D. (2014). The chromatin landscape of drosophila: Comparisons between species, sexes, and chromosomes. *Genome Research*, 24(7), 1125-37. doi:10.1101/gr.172155.114
14. Cleves, P. A., Ellis, N. A., Jimenez, M. T., Nunez, S. M., Schluter, D., Kingsley, D. M., & Miller,

- C. T. (2014). Evolved tooth gain in sticklebacks is associated with a cis-regulatory allele of *bmp6*. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1407567111
15. Coty, D., Aria, C., Garrouste, R., Wils, P., Legendre, F., & Nel, A. (2014). The first ant-termite syninclusion in amber with ct-scan analysis of taphonomy. *PloS One*, 9(8), e104410. doi:10.1371/journal.pone.0104410
 16. Currie, T. E., & Mace, R. (2014). Evolution of cultural traits occurs at similar relative rates in different world regions. *Proceedings. Biological Sciences / the Royal Society*, 281(1795). doi:10.1098/rspb.2014.1622
 17. Denoeud, F., Carretero-Paulet, L., Dereeper, A., Droc, G., Guyot, R., Pietrella, M., . . . Lashermes, P. (2014). The coffee genome provides insight into the convergent evolution of caffeine biosynthesis. *Science (New York, N.Y.)*, 345(6201), 1181-1184. doi:10.1126/science.1255274
 18. Drown, D. M., & Wade, M. J. (2014). RUNAWAY COEVOLUTION: ADAPTATION TO HERITABLE AND NONHERITABLE ENVIRONMENTS. *Evolution; International Journal of Organic Evolution*. doi:10.1111/evo.12470
 19. Faria, N. R., Rambaut, A., Suchard, M. A., Baele, G., Bedford, T., Ward, M. J., . . . Lemey, P. (2014). HIV epidemiology. The early spread and epidemic ignition of HIV-1 in human populations. *Science (New York, N.Y.)*, 346(6205), 56-61. doi:10.1126/science.1256739
 20. Fowler, K. R., Sasaki, M., Milman, N., Keeney, S., & Smith, G. R. (2014). Evolutionarily diverse determinants of meiotic DNA break and recombination landscapes across the genome. *Genome Research*, 24(10), 1650-64. doi:10.1101/gr.172122.114
 21. Gallant, J. R., Imhoff, V. E., Martin, A., Savage, W. K., Chamberlain, N. L., Pote, B. L., . . . Mullen, S. P. (2014). Ancient homology underlies adaptive mimetic diversity across butterflies. *Nature Communications*, 5, 4817. doi:10.1038/ncomms5817
 22. Gerber, S. (2014). Not all roads can be taken: Development induces anisotropic accessibility in morphospace. *Evolution & Development*. doi:10.1111/ede.12098
 23. Gerth, M., Gansauge, M. T., Weigert, A., & Bleidorn, C. (2014). Phylogenomic analyses uncover origin and spread of the wolbachia pandemic. *Nature Communications*, 5, 5117. doi:10.1038/ncomms6117
 24. Grishkevich, V., & Yanai, I. (2014a). Gene length and expression level shape genomic novelties. *Genome Research*, 24(9), 1497-503. doi:10.1101/gr.169722.113
 25. Grishkevich, V., & Yanai, I. (2014b). Gene length and expression level shape genomic novelties. *Genome Research*, 24(9), 1497-1503. Retrieved from Google Scholar.
 26. Harrison, M. M., Jenkins, B. V., O'Connor-Giles, K. M., & Wildonger, J. (2014). A CRISPR view of development. *Genes & Development*, 28(17), 1859-1872. doi:10.1101/gad.248252.114
 27. Helmus, M. R., Mahler, D. L., & Losos, J. B. (2014). Island biogeography of the anthropocene. *Nature*, 513(7519), 543-6. doi:10.1038/nature13739
 28. Hoyal Cuthill, J. F., & Conway Morris, S. (2014). Fractal branching organizations of ediacaran rangeomorph fronds reveal a lost proterozoic body plan. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1408542111
 29. Jackson, B. C., Campos, J. L., & Zeng, K. (2014). The effects of purifying selection on patterns of genetic differentiation between drosophila melanogaster populations. *Heredity*. doi:10.1038/hdy.2014.80

30. Katayama, N., Abbott, J. K., Kjærandsen, J., Takahashi, Y., & Svensson, E. I. (2014). Sexual selection on wing interference patterns in *Drosophila melanogaster*. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1407595111
31. Kim, S., Lieberman, T. D., & Kishony, R. (2014). Alternating antibiotic treatments constrain evolutionary paths to multidrug resistance. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1409800111
32. Laland, K., Uller, T., Feldman, M., Sterelny, K., Müller, G. B., Moczek, A., . . . Strassmann, J. E. (2014). Does evolutionary theory need a rethink? *Nature News*, 514(7521), 161. doi:10.1038/514161a
33. Lingle, S., & Riede, T. (2014). Deer mothers are sensitive to infant distress vocalizations of diverse mammalian species. *American Naturalist*. doi:10.1086/677677
34. Logan, M. L., Cox, R. M., & Calsbeek, R. (2014). Natural selection on thermal performance in a novel thermal environment. *Proceedings of the National Academy of Sciences*, 201404885. Retrieved from Google Scholar.
35. Long, A. D., Macdonald, S. J., & King, E. G. (2014). Dissecting complex traits using the *Drosophila* synthetic population resource. *Trends in Genetics*. doi:10.1016/j.tig.2014.07.009
36. Malagón, J. N., Ahuja, A., Sivapatham, G., Hung, J., Lee, J., Muñoz-Gómez, S. A., . . . Larsen, E. (2014). Evolution of *Drosophila* sex comb length illustrates the inextricable interplay between selection and variation. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1322342111
37. Mappes, J., Kokko, H., Ojala, K., & Lindström, L. (2014). Seasonal changes in predator community switch the direction of selection for prey defences. *Nature Communications*, 5, 5016. doi:10.1038/ncomms6016
38. Marder, E. (2014). Looking out for future scientists. *eLife*, 3. doi:10.7554/eLife.04901
39. McCullough, E. L., Tobalske, B. W., & Emlen, D. J. (2014). Structural adaptations to diverse fighting styles in sexually selected weapons. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1409585111
40. McGrath, C. L., Gout, J. F., Johri, P., Doak, T. G., & Lynch, M. (2014). Differential retention and divergent resolution of duplicate genes following whole-genome duplication. *Genome Research*, 24(10), 1665-75. doi:10.1101/gr.173740.114
41. McKeown, A. N., Bridgham, J. T., Anderson, D. W., Murphy, M. N., Ortlund, E. A., & Thornton, J. W. (2014). Evolution of DNA specificity in a transcription factor family produced a new gene regulatory module. *Cell*, 159(1), 58-68. doi:10.1016/j.cell.2014.09.003
42. Niimura, Y., Matsui, A., & Touhara, K. (2014). Extreme expansion of the olfactory receptor gene repertoire in African elephants and evolutionary dynamics of orthologous gene groups in 13 placental mammals. *Genome Research*, 24(9), 1485-96. doi:10.1101/gr.169532.113
43. Oh, J., Byrd, A. L., Deming, C., Conlan, S., Barnabas, B., Blakesley, R., . . . Segre, J. A. (2014). Biogeography and individuality shape function in the human skin metagenome. *Nature*, 514(7520), 59-64. doi:10.1038/nature13786
44. O'Doherty, K. C., Neufeld, J. D., Brinkman, F. S. L., Gardner, H., Guttman, D. S., & Beiko, R. G. (2014). Opinion: Conservation and stewardship of the human microbiome. *Proceedings of the National Academy of Sciences of the United States of America*, 111(40), 14312-14313. doi:10.1073/pnas.1413200111
45. Pai, A. A., & Gilad, Y. (2014). Comparative studies of gene regulatory mechanisms. *Current Opinion in Genetics & Development*, 29C, 68-74. doi:10.1016/j.gde.2014.08.010

46. Perry, G. H., Foll, M., Grenier, J. C., Patin, E., Nédélec, Y., Pacis, A., . . . Barreiro, L. B. (2014). Adaptive, convergent origins of the pygmy phenotype in african rainforest hunter-gatherers. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1402875111
47. Pickrell, J. K., & Reich, D. (2014). Toward a new history and geography of human genes informed by ancient DNA. *Trends in Genetics : TIG*. doi:10.1016/j.tig.2014.07.007
48. Prokuda, A. Y., & Roff, D. A. (2014). The quantitative genetics of sexually selected traits, preferred traits and preference: A review and analysis of the data. *Journal of Evolutionary Biology*, n/a-n/a. doi:10.1111/jeb.12483
49. Pruitt, J. N., & Goodnight, C. J. (2014). Site-specific group selection drives locally adapted group compositions. *Nature*. doi:10.1038/nature13811
50. Roesti, M., & Salzburger, W. (2014). Natural selection: It's a many-small world after all. *Current Biology : CB*, 24(19), R959-R962. doi:10.1016/j.cub.2014.09.005
51. Romiguier, J., Gayral, P., Ballenghien, M., Bernard, A., Cahais, V., Chenuil, A., . . . Galtier, N. (2014). Comparative population genomics in animals uncovers the determinants of genetic diversity. *Nature*. doi:10.1038/nature13685
52. Scantlebury, D. M., Mills, M. G. L., Wilson, R. P., Wilson, J. W., Mills, M. E. J., Durant, S. M., . . . Speakman, J. R. (2014, October). Flexible energetics of cheetah hunting strategies provide resistance against kleptoparasitism. *Science (New York, N.Y.)*, 346(6205), 79-81. doi:10.1126/science.1256424
53. Schaerli, Y., Munteanu, A., Gili, M., Cotterell, J., Sharpe, J., & Isalan, M. (2014). A unified design space of synthetic stripe-forming networks. *Nature Communications*, 5, 4905. doi:10.1038/ncomms5905
54. Schaum, C. E., & Collins, S. (2014). Plasticity predicts evolution in a marine alga. *Proceedings of the Royal Society B: Biological Sciences*, 281(1793), 20141486. doi:10.1111/j
55. Schlötterer, C., Tobler, R., Kofler, R., & Nolte, V. (2014). Sequencing pools of individuals - mining genome-wide polymorphism data without big funding. *Nature Reviews. Genetics*. doi:10.1038/nrg3803
56. Scott, I. M., Clark, A. P., Josephson, S. C., Boyette, A. H., Cuthill, I. C., Fried, R. L., . . . Penton-Voak, I. S. (2014). Human preferences for sexually dimorphic faces may be evolutionarily novel. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1409643111
57. Sheehan, M. J., & Nachman, M. W. (2014). Morphological and population genomic evidence that human faces have evolved to signal individual identity. *Nature Communications*, 5, 4800. doi:10.1038/ncomms5800
58. Standen, E. M., Du, T. Y., & Larsson, H. C. (2014). Developmental plasticity and the origin of tetrapods. *Nature*. doi:10.1038/nature13708
59. Stern, D. L. (2014). Identification of loci that cause phenotypic variation in diverse species with the reciprocal hemizyosity test. *Trends in Genetics : TIG*. doi:10.1016/j.tig.2014.09.006
60. Suez, J., Korem, T., Zeevi, D., Zilberman-Schapira, G., Thaiss, C. A., Maza, O., . . . Elinav, E. (2014). Artificial sweeteners induce glucose intolerance by altering the gut microbiota. *Nature*. doi:10.1038/nature13793
61. Theis, A., Ronco, F., Indermaur, A., Salzburger, W., & Egger, B. (2014). Adaptive divergence between lake and stream populations of an east african cichlid fish. *Molecular Ecology*. doi:10.1111/mec.12939

62. Traill, L. W., Schindler, S., & Coulson, T. (2014). Demography, not inheritance, drives phenotypic change in hunted bighorn sheep. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1407508111
63. Trotter, M. V., Weissman, D. B., Peterson, G. I., Peck, K. M., & Masel, J. (2014). Cryptic genetic variation can make "irreducible complexity" a common mode of adaptation in sexual populations. *Evolution; International Journal of Organic Evolution*. doi:10.1111/evo.12517
64. van Dijk, E. L., Auger, H., Jaszczyszyn, Y., & Thermes, C. (2014). Ten years of next-generation sequencing technology. *Trends in Genetics : TIG*. doi:10.1016/j.tig.2014.07.001
65. Williams, T. M., Wolfe, L., Davis, T., Kendall, T., Richter, B., Wang, Y., . . . Wilmers, C. C. (2014, October). Instantaneous energetics of puma kills reveal advantage of felid sneak attacks. *Science (New York, N.Y.)*, 346(6205), 81-85. doi:10.1126/science.1254885
66. Wilson, E. O., & Nowak, M. A. (2014). Natural selection drives the evolution of ant life cycles. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1405550111
67. Yan, H., Simola, D. F., Bonasio, R., Liebig, J., Berger, S. L., & Reinberg, D. (2014). Eusocial insects as emerging models for behavioural epigenetics. *Nature Reviews. Genetics*. doi:10.1038/nrg3787
68. Yoda, S., Yamaguchi, J., Mita, K., Yamamoto, K., Banno, Y., Ando, T., . . . Fujiwara, H. (2014). The transcription factor apontic-like controls diverse colouration pattern in caterpillars. *Nature Communications*, 5, 4936. doi:10.1038/ncomms5936
69. Yoshizawa, K., Ferreira, R. L., Kamimura, Y., & Lienhard, C. (n.d.). A transgender brazilian cave insect. Retrieved from Google Scholar.
70. Zhan, S., Zhang, W., Niitepõld, K., Hsu, J., Haeger, J. F., Zalucki, M. P., . . . Kronforst, M. R. (2014). The genetics of monarch butterfly migration and warning colouration. *Nature*. doi:10.1038/nature13812
71. Zhang, Y. E., & Long, M. (2014). New genes contribute to genetic and phenotypic novelties in human evolution. *Current Opinion in Genetics & Development*, 29C, 90-96. doi:10.1016/j.gde.2014.08.013