

List of publications

Numbers and abbreviations in brackets after the reference refer to: (impact factor [*ISI 5-year impact factor in 2017, or impact factor in 2017 if data are unavailable*]; rank in field / number of titles in field [*according to ISI*])

h-index: 13; Citations: 584 [*according to Google Scholar*]

30. **Kolodny, O.^C**, McLaren, M.R., Greenbaum, G., Ramakrishnan, U., Feldman, M.W., Petrov, D., Taylor, R.W. (2019). Reconsidering the management paradigm of fragmented populations. **bioRxiv**: 649129.
29. Greenbaum, G. ^C, Fogarty, L., Colleran, H., Berger-Tal, O., **Kolodny, O. ^{*}C, Creanza, N. ^{*}C (2019). Are both Necessity and opportunity the mothers of innovation? **Behavioral and Brain Sciences**. *In Press*. (21.181; 2/51 Behavioral Sciences, 5/261 Neurosciences, 1/14 Psychology, Biology)**
28. Greenbaum, G. ^C, Getz, W.M., Rosenberg, N.A., Feldman, M.W., Hovers, E., **Kolodny, O. ^C** (2019). Disease transmission and introgression can explain the long-lasting contact zone of modern humans and Neanderthals. **Nature Communications** 10: 5003. (13.092; 3/64 Multidisciplinary Sciences)
27. Greenbaum, G. ^C, Friesem, D.E., Hovers, E., Feldman, M.W., **Kolodny, O. ^C** (2019). Was inter-population connectivity of Neanderthals and modern humans the driver of the Upper Paleolithic transition rather than its product? **Quaternary Science Reviews**. *In Press; final version available online: <https://doi.org/10.1016/j.quascirev.2018.12.011>* (5.054; 5/49 Geography, Physical 12/190 Geosciences, Multidisciplinary)
26. Altenberg, L. Creanza, N., Fogarty, L., Hadany, L., **Kolodny, O.**, Laland, K.N., Lehmann, L., Otto, S.P., Rosenberg, N.A., Van Cleve, J., Wakeley, J. (2019). Some topics in theoretical population genetics: editorial commentaries on a selection of Marc Feldman's TPB papers. **Theoretical Population Biology** 129: 4-8. (1.348; 41/59 Mathematical and Computational Biology, 42/49 Evolutionary Biology)
25. Greenbaum, G. ^C, Truskanov, N., Creanza, N., Edelman, S., Feldman, M.W., **Kolodny, O.^C** (2019). Separating social learning from technical skill provides a new perspective on the record of hominin tool use. **Current Anthropology**. *In Press*. (3.386; 15/85 Anthropology)
24. **Kolodny, O.^{*}**, Weinberg, M.^{*}, Reshef, L., Harten, L., Hefetz, A., Gophna, U., Feldman, M.W., Yovel, Y. (2019). Coordinated change at the colony level in fruit bat fur microbiomes through time. **Nature Ecology & Evolution** 3(1): 116. (Impact factor not designated yet)
23. Linkovski, O. ^C, Weinbach, N., Edelman, S., Feldman, M.W., Lotem, A., **Kolodny, O. ^C** (2019). Beyond uncertainty: a broader scope for incentive hope mechanisms and its implications. **Behavioral and Brain Sciences** 42. (21.181; 2/51 Behavioral Sciences, 5/261 Neurosciences, 1/14 Psychology, Biology)
22. **Kolodny, O.**, Feldman, M.W., Creanza, N. (2018) Integrative studies of cultural evolution: crossing disciplinary boundaries to produce new insights. **Philosophical Transactions of the Royal Society B – Biological Sciences** 373: 20170048. DOI: 10.1098/rstb.2017.0048. (7.192; 7/85 Biology)

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21. **Kolodny, O.**, Feldman, M.W., Creanza, N. (2018). Bridging cultural gaps: interdisciplinary studies in human cultural evolution. **Philosophical Transactions of the Royal Society B – Biological Sciences** 373: 20170413, doi: 10.1098/rstb.2017.0413. (7.192; 7/85 Biology)
20. **Kolodny, O.**, Feldman, M.W. (2017). A parsimonious neutral model suggests Neanderthal replacement was determined by migration and random species drift. **Nature Communications** 8.1: 1040. (13.092; 3/64 Multidisciplinary Sciences)
19. **Kolodny, O.** Edelman, S. (2018). The evolution of the capacity for language: the ecological context and adaptive value of a process of cognitive hijacking. **Philosophical Transactions of the Royal Society B – Biological Sciences** 373: 20170052. (7.192; 7/85 Biology)
18. Creanza, N.* , **Kolodny, O.*^c**, Feldman, M.W., (2017). Cultural evolutionary theory: how culture evolves and why it matters. **PNAS - Proceedings of the National Academy of Sciences** 114.30: 7782-7789. (10.359; 5/64 Multidisciplinary Sciences)
17. Lotem, O., Halpern, J., Edelman, S., **Kolodny, O.^c** (2017). The evolution of cognitive mechanisms in response to cultural innovations. **PNAS - Proceedings of the National Academy of Sciences** 114.30: 7915-7922. (10.359; 5/64 Multidisciplinary Sciences)
16. **Kolodny, O.**, Stern, C. (2017). Evolution of risk preference is determined by reproduction dynamics, life history, and population size. **Scientific Reports** 7: 9364. (4.609; 12/64 Multidisciplinary Sciences)
15. Creanza, N.* , **Kolodny, O.***, Feldman, M.W., (2016). Greater than the sum of its parts? Modeling population contact and interaction of cultural repertoires. **Journal of the Royal Society – Interface** 14.130: 20170171. (4.216; 13/64 Multidisciplinary Sciences)
14. **Kolodny, O.***, Creanza, N.* , Feldman, M.W., (2016). Game-changing innovations: how culture can change the parameters of its own evolution and induce abrupt cultural shifts. **PLoS Computational Biology** 12.12: e1005302. (4.834; 5/59 Mathematical & Computational Biology, 13/79 Biochemical Research Methods)
13. **Kolodny, O.**, Naaman, I. (2016). Land snail populations in abandoned water cisterns in Israel: a model system of artificial niche colonization. **Journal of Conchology** 42(4), 233-237. (0.541; 142/167 Zoology, 96/106 Marine and Freshwater Biology)
12. Lotem, A., **Kolodny, O.**, Halpern, J.Y., Onnis, L., Edelman, S. (2016). The bottleneck may be the solution, not the problem. **Behavioral and Brain Sciences**, 39. doi:10.1017/s0140525x15000886, e83. (21.181; 2/51 Behavioral Sciences, 5/261 Neurosciences, 1/14 Psychology, Biology)
11. **Kolodny, O.***, Creanza, N.* , Feldman, M. W. (2015). Evolution in leaps: The punctuated accumulation and loss of cultural innovations. **PNAS – Proceedings of the National Academy of Sciences**, 112(49), E6762-E6769. (10.359; 5/64 Multidisciplinary Sciences)
10. **Kolodny, O.**, Edelman, S., Lotem, A. (2015). Evolved to adapt: A computational approach to animal innovation and creativity. **Current Zoology**, 61, 350-367. (2.201; 22/167 Zoology)
9. Menyhart, O.* , **Kolodny, O.***, Goldstein, M. H., DeVoogd, T. J., Edelman, S. (2015). Juvenile zebra finches learn the underlying structural regularities of their fathers' song. **Frontiers in psychology**, 6. (2.749; 39/135 Psychology, Mutidisciplinary)

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8. **Kolodny, O.**, Edelman, S. (2015). The problem of multimodal concurrent serial order in behavior. **Neuroscience & Biobehavioral Reviews**, *56*, 252-265. (10.016; 3/51 Behavioral Sciences, 17/261 Neurosciences)
7. **Kolodny, O.**, Edelman, S., Lotem, A. (2015). Evolution of protolinguistic abilities as a by-product of learning to forage in structured environments. **Proceedings of the Royal Society B** (Vol. 282, No. 1811, p. 20150353). (5.611; 9/86 Biology, 18/160 Ecology, 8/49 Evolutionary Biology)
6. **Kolodny, O.**, Edelman, S., Lotem, A. (2014). The Evolution of Continuous Learning of the Structure of the Environment. **Journal of the Royal Society Interface** *11*: 20131091. <http://dx.doi.org/10.1098/rsif.2013.1091> (4.216; 13/64 Multidisciplinary Sciences)
5. **Kolodny, O.**, Lotem, A., Edelman, S. (2015). Learning a Generative Probabilistic Grammar of Experience: A Process-Level Model of Language Acquisition. **Cognitive science**, *39*(2), 227-267. (3.171; 24/85 Psychology, Experimental)
4. Lotem, A., **Kolodny, O.**, (2014). Reconciling genetic evolution and the associative learning account of mirror neurons through data-acquisition mechanisms. **Behavioral and Brain Sciences** *37*(2): 210-211. (21.181; 2/51 Behavioral Sciences, 5/261 Neurosciences, 1/14 Psychology, Biological)
3. **Kolodny, O.** (2013) Option generation in decision-making research: why just talk? **Frontiers in Psychology** *4*:728. doi: 10.3389/fpsyg.2013.00728 (2.749; 39/135 Psychology, Multidisciplinary)
- 2b. Sattath, S., Elyashiv, E., **Kolodny, O.**, Rinnot, Y., Sella, G. (2011). Pervasive Adaptive Protein Evolution Apparent in Diversity Patterns around Amino Acid Substitutions in *Drosophila simulans*. **PLoS Genetics** *7*(2): e1001302.doi:10.1371/journal.pgen.1001302. (6.685; 22/171 Genetics & Heredity)
- 2a. **Kolodny, O.**, (2010). Inferring genomic parameters of adaptation from the spatial patterns of diversity generated by selective sweeps. Hebrew University **M.Sc. Thesis**, Faculty of Science, The Alexander Silberman Institute for Life Sciences, Department of Evolution, Systematics, and Ecology.
1. Almuly, R., Cavari, B., Ferstman, H., **Kolodny, O.**, Funkenstein, B., (2000). Genomic structure and sequence of the gilthead seabream (*Sparus aurata*) growth hormone-encoding gene: identification of minisatellite polymorphism in intron I. **Genome**, *43*(5), 836-845. (1.735; 95/161 Biotechnology & Applied Microbiology, 121/171 Genetics & Heredity)