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Is modularity necessary for evolvability? Remarks on the relationship between pleiotropy and evolvability

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258	Evolvability and genetic constraint in Dalechampia blossoms: components of variance and measures of evolvability. <b>2003</b> , 16, 754-66		108
257	A bacterial cell-cycle regulatory network operating in time and space. <b>2003</b> , 301, 1874-7		146
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253	The evolution of genetic regulatory systems in bacteria. <b>2004</b> , 5, 169-78		114
252	The nk model and population genetics. <i>Journal of Theoretical Biology</i> , <b>2005</b> , 234, 329-40	2.3	33
251	Wnt signaling. <b>2005</b> , 1-17		167
250	The search for genenotype/phenotype associations and the phenome scan. <b>2005</b> , 19, 264-75		26
249	Universal sharing patterns in proteomes and evolution of protein fold architecture and life. <b>2005</b> , 60, 484-98		41
248	Developmental Constraints, Modules, and Evolvability. <b>2005</b> , 219-247		85
247	Spontaneous mutational correlations for life-history, morphological and behavioral characters in Caenorhabditis elegans. <i>Genetics</i> , <b>2005</b> , 170, 645-53	4	61
246	Theoretical models of selection and mutation on quantitative traits. <b>2005</b> , 360, 1411-25		251
245	Novel specificities emerge by stepwise duplication of functional modules. <b>2005</b> , 15, 552-9		70
244	Towards an empirical measure of evolvability. <b>2005</b> ,		14

## (2006-2005)

243	The opportunity for canalization and the evolution of genetic networks. <b>2005</b> , 165, 147-62	91
242	Towards a unified science of cultural evolution. <b>2006</b> , 29, 329-47; discussion 347-83	476
241	The Evolution of Genetic Architecture. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2006</b> , 37, 123-157	239
240	Generative entrenchment and an evolutionary developmental biology for culture. <b>2006</b> , 29, 364-366	4
239	Cultural evolution is more than neurological evolution. <b>2006</b> , 29, 356-357	2
238	Vertical/compatible integration versus analogizing with biology. <b>2006</b> , 29, 348-349	3
237	A science of culture: Clarifications and extensions. <b>2006</b> , 29, 366-375	5
236	Culture evolves only if there is cultural inheritance. <b>2006</b> , 29, 347-348	22
235	Cultural evolution is not equivalent to Darwinian evolution. <b>2006</b> , 29, 361-361	1
234	The uses of ethnography in the science of cultural evolution. <b>2006</b> , 29, 363-364	O
233	Archaeology and cultural macroevolution. <b>2006</b> , 29, 359-360	4
232	A continuum of mindfulness. <b>2006</b> , 29, 353-354	64
231	A long way to understanding cultural evolution. <b>2006</b> , 29, 358-359	О
230	Darwinian cultural evolution rivals genetic evolution. <b>2006</b> , 29, 360-360	2
229	Evolution is important but it is not simple: Defining cultural traits and incorporating complex evolutionary theory. <b>2006</b> , 29, 354-355	5
228	It is not evolutionary models, but models in general that social science needs. <b>2006</b> , 29, 351-352	2
227	A unified science of cultural evolution should incorporate choice. <b>2006</b> , 29, 362-363	1
226	Evo-devo, modularity, and evolvability: Insights for cultural evolution. <b>2006</b> , 29, 361-362	4

225	The role of psychology in the study of culture. <b>2006</b> , 29, 355-355	2
224	Intelligent design in cultural evolution. <b>2006</b> , 29, 352-353	2
223	Analogies are powerful and dangerous things. <b>2006</b> , 29, 350-351	3
222	Why we need memetics. <b>2006</b> , 29, 349-350	6
221	Cultural traits and cultural integration. <b>2006</b> , 29, 357-358	О
220	Evolutionary social science beyond culture. <b>2006</b> , 29, 356-356	2
219	The origin of higher taxa: macroevolutionary processes, and the case of the mammals. <b>2006</b> , 88, 3-22	29
218	Pleiotropic mutation, modularity and evolvability. <i>Evolution &amp; Development</i> , <b>2006</b> , 8, 81-93	42
217	Selecting for evolvable representations. 2006,	6
216	The origins and evolution of functional modules: lessons from protein complexes. 2006, 361, 507-17	113
215	Evolutionary theory and the riddle of the universe. <b>2006</b> , 29, 351-351	4
214	The conceptual and statistical relationship between modularity and morphological integration. <b>2007</b> , 56, 818-36	188
213	Memory flies sooner from flies that learn faster. <b>2007</b> , 104, 13539-40	5
212	The role of translocation and selection in the emergence of genetic clusters and modules. <b>2007</b> , 13, 249-58	3
211	The roles of mutation accumulation and selection in loss of sporulation in experimental populations of Bacillus subtilis. <i>Genetics</i> , <b>2007</b> , 177, 937-48	60
<b>2</b> 10	Cognitive Modularity, Biological Modularity, and Evolvability. <b>2007</b> , 2, 62-73	4
209	The Hsp90 capacitor, developmental remodeling, and evolution: the robustness of gene networks and the curious evolvability of metamorphosis. <b>2007</b> , 42, 355-72	64
208	The road to modularity. <b>2007</b> , 8, 921-31	662

### (2008-2007)

207	Correlated evolution of multivariate traits: detecting co-divergence across multiple dimensions. <b>2007</b> , 20, 2334-48		21
206	The mutation matrix and the evolution of evolvability. <i>Evolution; International Journal of Organic Evolution</i> , <b>2007</b> , 61, 727-45	3.8	130
205	What can microbial genetics teach sociobiology?. <b>2007</b> , 23, 74-80		78
204	Comparing Variational Properties of Homologous Floral and Vegetative Characters in Dalechampia scandens: Testing the Berg Hypothesis. <i>Evolutionary Biology</i> , <b>2007</b> , 34, 86-98	3	29
203	Opening the <b>B</b> lack Box[IThe Genetic and Biochemical Basis of Eye Evolution. <b>2008</b> , 1, 390-402		11
202	Theoretical approaches to the evolution of development and genetic architecture. 2008, 1133, 67-86		39
201	Evolution of evolvability in a developmental model. <i>Evolution; International Journal of Organic Evolution</i> , <b>2008</b> , 62, 301-15	3.8	68
200	The evolutionary role of modularity and integration in the hominoid cranium. <i>Evolution; International Journal of Organic Evolution</i> , <b>2008</b> , 62, 943-58	3.8	183
199	Pleiotropic scaling of gene effects and the 'cost of complexity'. <b>2008</b> , 452, 470-2		168
198	Is evolvability evolvable?. 2008, 9, 75-82		357
197	Phenotypic integration and conserved covariance structure in calopterygid damselflies. <b>2008</b> , 21, 514-2	6	21
196	Measuring and comparing evolvability and constraint in multivariate characters. 2008, 21, 1201-19		419
195	Evolutionary origins of invasive populations. <b>2008</b> , 1, 427-48		152
194	Functional proteomics. Preface. <i>Methods in Molecular Biology</i> , <b>2008</b> , 484, v-vii	1.4	5
193	Facilitated variation: how evolution learns from past environments to generalize to new environments. <b>2008</b> , 4, e1000206		109
192	Using Correlation Proximity Graphs to Study Phenotypic Integration. <i>Evolutionary Biology</i> , <b>2008</b> , 35, 197	1-3198	19
191	Is Evolutionary Developmental Biology a Viable Approach to the Study of the Human Mind?. <b>2008</b> , 19, 41-48		3

189	Robustness and evolvability: a paradox resolved. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2008</b> , 275, 91-100	4.4	406
188	A publish-subscribe model of genetic networks. <i>PLoS ONE</i> , <b>2008</b> , 3, e3245	3.7	1
187	Bibliography. <b>2009</b> , 217-238		
186	Contemporary parallel diversification, antipredator adaptations and phenotypic integration in an aquatic isopod. <i>PLoS ONE</i> , <b>2009</b> , 4, e6173	3.7	24
185	Developmental plasticity, modularity, and heterochrony during the phylotypic stage of the zebra fish, Danio rerio. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2010</b> , 314, 166-78	1.8	12
184	Integration and Evolvability in Primate Hands and Feet. Evolutionary Biology, 2009, 36, 100-117	3	71
183	The Evolution of Modularity in the Mammalian Skull II: Evolutionary Consequences. <i>Evolutionary Biology</i> , <b>2009</b> , 36, 136-148	3	160
182	The Developmental Basis of Variational Modularity: Insights from Quantitative Genetics, Morphometrics, and Developmental Biology. <i>Evolutionary Biology</i> , <b>2009</b> , 36, 377-385	3	56
181	Out in the cold: physiological capacity influences behaviour in deer mice. 2009, 23, 774-783		27
180	Extinctions in heterogeneous environments and the evolution of modularity. <i>Evolution; International Journal of Organic Evolution</i> , <b>2009</b> , 63, 1964-75	3.8	29
179	Abundant Genetic Variation + Strong Selection = Multivariate Genetic Constraints: A Geometric View of Adaptation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2009</b> , 40, 41-59	13.5	399
178	Genetic Representation and Evolvability of Modular Neural Controllers. <b>2010</b> , 5, 10-19		16
177	Robustness and evolvability. <b>2010</b> , 26, 406-14		177
176	Maintenance and expression of the S. cerevisiae mitochondrial genomefrom genetics to evolution and systems biology. <b>2010</b> , 1797, 1086-98		59
176 175		3.8	59 23
	and systems biology. <b>2010</b> , 1797, 1086-98  Evolvability of individual traits in a multivariate context: partitioning the additive genetic variance into common and specific components. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> ,	3.8	
175	and systems biology. <b>2010</b> , 1797, 1086-98  Evolvability of individual traits in a multivariate context: partitioning the additive genetic variance into common and specific components. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 1899-911  Evolution of variation and variability under fluctuating, stabilizing, and disruptive selection.		23

171	Cultural traits as units of analysis. <b>2010</b> , 365, 3797-806		77
170	Computing and Complexity [Networks, Nature and Virtual Worlds. 2011, 137-161		1
169	Protein structural modularity and robustness are associated with evolvability. <b>2011</b> , 3, 456-75		27
168	Smaller gene networks permit longer persistence in fast-changing environments. <i>PLoS ONE</i> , <b>2011</b> , 6, e14747	3.7	9
167	Evolution of competitive ability: an adaptation speed vs. accuracy tradeoff rooted in gene network size. <i>PLoS ONE</i> , <b>2011</b> , 6, e14799	3.7	4
166	A modelling framework for the analysis of artificial-selection time series. <b>2011</b> , 93, 155-73		15
165	Metamorphic remodeling of a planktotrophic larva to produce the predatory feeding system of a cone snail (Mollusca, Neogastropoda). <b>2011</b> , 221, 176-88		4
164	Divergent patterns of integration and reduced constraint in the human hip and the origins of bipedalism. <i>Evolution; International Journal of Organic Evolution</i> , <b>2011</b> , 65, 1336-56	3.8	90
163	Pioneering paradigms and magnificent manifestosLeigh Van Valen's priceless contributions to evolutionary biology. <i>Evolution; International Journal of Organic Evolution</i> , <b>2011</b> , 65, 917-22	3.8	1
162	High-dimensional variance partitioning reveals the modular genetic basis of adaptive divergence in gene expression during reproductive character displacement. <i>Evolution; International Journal of Organic Evolution</i> , <b>2011</b> , 65, 3126-37	3.8	10
161	The pleiotropic structure of the genotype-phenotype map: the evolvability of complex organisms. <b>2011</b> , 12, 204-13		422
160	Evolutionary principles and their practical application. <b>2011</b> , 4, 159-83		192
159	Sexual Dimorphism Increases Evolvability in a Genetic Regulatory Network. <i>Evolutionary Biology</i> , <b>2011</b> , 38, 52-67	3	8
158	Functional and Genetic Integration in the Skulls of Lake Malawi Cichlids. <i>Evolutionary Biology</i> , <b>2011</b> , 38, 316-334	3	52
157	Heritability is not Evolvability. <i>Evolutionary Biology</i> , <b>2011</b> , 38, 258-277	3	254
156	Genotype-Phenotype Maps Maximizing Evolvability: Modularity Revisited. <i>Evolutionary Biology</i> , <b>2011</b> , 38, 371-389	3	35
155	Evo Devo and cognitive science. <b>2011</b> , 2, 429-440		5
154	Dual-phase evolution in complex adaptive systems. <b>2011</b> , 8, 609-29		34

153	Whole-genome sequencing and phenotypic analysis of Bacillus subtilis mutants following evolution under conditions of relaxed selection for sporulation. <b>2011</b> , 77, 6867-77		23	
152	Cryptic patterning of avian skin confers a developmental facility for loss of neck feathering. <b>2011</b> , 9, e1001028		79	
151	Evolutionary Developmental Biology (2). <b>2012</b> , 353-397		O	
150	Geometric Morphometrics for Biologists - Pages 435-454. <b>2012</b> , 435-454			
149	An enhanced hypercube-based encoding for evolving the placement, density, and connectivity of neurons. <b>2012</b> , 18, 331-63		29	
148	How to Explore Morphological Integration in Human Evolution and Development?. <i>Evolutionary Biology</i> , <b>2012</b> , 39, 536-553	3	63	
147	Convergent evolution of modularity in metabolic networks through different community structures. <b>2012</b> , 12, 181		13	
146	Gene functional trade-offs and the evolution of pleiotropy. <i>Genetics</i> , <b>2012</b> , 192, 1389-409	4	37	
145	Quantifying protein modularity and evolvability: a comparison of different techniques. <i>BioSystems</i> , <b>2012</b> , 110, 22-33	1.9	8	
144	Sexually dimorphic levels of color trait integration and the resolution of sexual conflict in Lake Malawi cichlids. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2012</b> , 318, 268-78	1.8	8	
143	Coming to Grips with Evolvability. <b>2012</b> , 5, 231-244		14	
142	Alan Turing unorganized machines and artificial neural networks: his remarkable early work and future possibilities. <b>2012</b> , 5, 35-43		12	
141	The evolution of alternative developmental pathways: footprints of selection on life-history traits in a butterfly. <b>2012</b> , 25, 1377-88		19	
140	A multivariate test of evolutionary constraints for thermal tolerance in Drosophila melanogaster. <b>2012</b> , 25, 1415-26		32	
139	Flatfishes, Turtles, and Bolyerine Snakes: Evolution by Small Steps or Large, or Both?. <i>Evolutionary Biology</i> , <b>2012</b> , 39, 30-60	3	13	
138	Morphological Integration, Evolutionary Constraints, and Extinction: A Computer Simulation-Based Study. <i>Evolutionary Biology</i> , <b>2013</b> , 40, 76-83	3	19	
137	Hominin Obstetrics and the Evolution of Constraints. <i>Evolutionary Biology</i> , <b>2013</b> , 40, 57-75	3	59	
136	Increased morphological asymmetry, evolvability and plasticity in human brain evolution.  Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130575	4.4	65	

## (2015-2013)

135	Quantitative genetic divergence and standing genetic (co)variance in thermal reaction norms along latitude. <i>Evolution; International Journal of Organic Evolution</i> , <b>2013</b> , 67, 2385-99	3.8	45
134	New Caledonian crows attend to multiple functional properties of complex tools. <b>2013</b> , 368, 20120415		40
133	QTL clustering as a mechanism for rapid multi-trait evolution. <b>2013</b> , 6, e24548		9
132	Does habitat variability really promote metabolic network modularity?. PLoS ONE, 2013, 8, e61348	3.7	13
131	Patterns of morphological variation in enamel-dentin junction and outer enamel surface of human molars. <b>2014</b> , 224, 669-80		18
130	Genetic constraints predict evolutionary divergence in Dalechampia blossoms. <b>2014</b> , 369, 20130255		66
129	Dual Phase Evolution. <b>2014</b> ,		3
128	Adaptation of flower and fruit colours to multiple, distinct mutualists. <b>2014</b> , 201, 678-686		31
127	A comparative study indicates both positive and purifying selection within ryanodine receptor (RyR) genes, as well as correlated evolution. <b>2014</b> , 321, 151-63		3
126	Model organisms in evo-devo: promises and pitfalls of the comparative approach. <b>2014</b> , 36, 42-59		16
125	Integrated phenotypes: understanding trait covariation in plants and animals. 2014, 369, 20130245		156
124	Modularity and intra-floral integration in metameric organisms: plants are more than the sum of their parts. <b>2014</b> , 369, 20130253		36
123	Phenotypic integration of brain size and head morphology in Lake Tanganyika Cichlids. <b>2014</b> , 14, 39		19
122	Climatic seasonality may affect ecological network structure: food webs and mutualistic networks. <i>BioSystems</i> , <b>2014</b> , 121, 29-37	1.9	17
121	Influence of modularity and regularity on disparity of atelostomata sea urchins. 2014, 10, 97-105		2
120	Information entropy as a measure of genetic diversity and evolvability in colonization. <i>Molecular Ecology</i> , <b>2015</b> , 24, 2073-83	5.7	10
119	Retroactivity in the Context of Modularly Structured Biomolecular Systems. 2015, 3, 85		19
118	Anatomical network analysis shows decoupling of modular lability and complexity in the evolution of the primate skull. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127653	3.7	25

117	Early South Americans Cranial Morphological Variation and the Origin of American Biological Diversity. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138090	3.7	27
116	How retroactivity impacts the robustness of genetic networks. <b>2015</b> ,		1
115	A simulation-based method to evaluate the impact of product architecture on product evolvability. <b>2015</b> , 26, 355-371		21
114	Constraints Evolve: Context Dependency of Gene Effects Allows Evolution of Pleiotropy. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2015</b> , 46, 413-434	13.5	55
113	Head, Body and Fins: Patterns of Morphological Integration and Modularity in Fishes. <i>Evolutionary Biology</i> , <b>2015</b> , 42, 296-311	3	19
112	Body Shape Evolution in Sunfishes: Divergent Paths to Accelerated Rates of Speciation in the Centrarchidae. <i>Evolutionary Biology</i> , <b>2015</b> , 42, 283-295	3	19
111	Patterns of morphological integration in the appendicular skeleton of mammalian carnivores. <i>Evolution; International Journal of Organic Evolution</i> , <b>2015</b> , 69, 321-40	3.8	42
110	Patterns of morphological integration in the dental arches of individuals with malocclusion. <b>2016</b> , 28, 879-889		1
109	Evaluation of System Evolvability Based on Usable Excess. <b>2016</b> , 138,		7
108	Chromosomal rearrangements, phenotypic variation and modularity: a case study from a contact zone between house mouse Robertsonian races in Central Italy. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 1353-62	2.8	13
107	INFORMATION ENTROPY AS A MEASURE OF GENETIC DIVERSITY AND EVOLVABILITY IN COLONIZATION. <b>2016</b> , 206-217		
106	Modularity: genes, development and evolution. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2016</b> , 47, 463-486	13.5	81
105	Pleiotropy and Its Evolution: Connecting Evo-Devo and Population Genetics. 2016, 1-10		3
104	Evolvability, Quantitative Genetics of. <b>2016</b> , 83-89		5
103	Excess Identification and Mapping in Engineered Systems. <b>2016</b> , 138,		7
102	Habitat variability does not generally promote metabolic network modularity in flies and mammals. <i>BioSystems</i> , <b>2016</b> , 139, 46-54	1.9	3
101	Pleiotropy and the evolution of floral integration. <b>2016</b> , 209, 80-5		51
100	Fluctuations in Evolutionary Integration Allow for Big Brains and Disparate Faces. <b>2017</b> , 7, 40431		23

#### (2018-2017)

99	Computing the Extended Synthesis: Mapping the Dynamics and Conceptual Structure of the Evolvability Research Front. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2017</b> , 328, 395-411	1.8	19
98	The evolvability of herkogamy: Quantifying the evolutionary potential of a composite trait. <i>Evolution; International Journal of Organic Evolution</i> , <b>2017</b> , 71, 1572-1586	3.8	20
97	Fin modules: an evolutionary perspective on appendage disparity in basal vertebrates. <b>2017</b> , 15, 32		19
96	References. <b>2017</b> , 319-386		
95	Development of Modular Organization in the Chimpanzee Pelvis. 2017, 300, 675-686		15
94	Pleiotropy, constraint, and modularity in the evolution of life histories: insights from genomic analyses. <b>2017</b> , 1389, 76-91		26
93	Evolutionary dynamics of the leaf phenological cycle in an oak metapopulation along an elevation gradient. <b>2017</b> , 30, 2116-2131		25
92	Evolvability and robustness: A paradox restored. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 430, 78-85	2.3	15
91	What affects the predictability of evolutionary constraints using a G-matrix? The relative effects of modular pleiotropy and mutational correlation. <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , <b>2017</b> , 71, 2298-2312	3.8	19
90	How evolution learns to generalise: Using the principles of learning theory to understand the evolution of developmental organisation. <b>2017</b> , 13, e1005358		46
89	Phylogenetic conservatism in skulls and evolutionary lability in limbs - morphological evolution across an ancient frog radiation is shaped by diet, locomotion and burrowing. <b>2017</b> , 17, 165		29
88	Genetic constraints on wing pattern variation in Lycaeides butterflies: A case study on mapping complex, multifaceted traits in structured populations. <b>2018</b> , 18, 892-907		12
87	References. 340-435		
86	Model Adequacy and Microevolutionary Explanations for Stasis in the Fossil Record. <b>2018</b> , 191, 509-523		21
85	Does a plant-eating insect's diet govern the evolution of insecticide resistance? Comparative tests of the pre-adaptation hypothesis. <b>2018</b> , 11, 739-747		21
84	The Influence of Climatic Variability on Morphological Integration, Evolutionary Rates, and Disparity in the Carnivora. <b>2018</b> , 191, 704-715		8
83	The genomics of local adaptation in trees: are we out of the woods yet?. 2018, 14, 1		45
82	Architecture and evolvability of innovation ecosystems. <b>2018</b> , 136, 132-144		21

81	Adaptation and constraint in the evolution of the mammalian backbone. 2018, 18, 172		31
80	The modular organization of roe deer () body during ontogeny: the effects of sex and habitat. <b>2018</b> , 15, 37		1
79	Macroevolutionary Freezing and the Janusian Nature of Evolvability: Is the Evolution (of Profound Biological Novelty) Going to End?. <b>2018</b> , 11, 263-285		1
78	Robustness and evolvability of heterogeneous cell populations. <b>2018</b> , 29, 1400-1409		8
77	Modularity promotes morphological divergence in ray-finned fishes. 2018, 8, 7278		34
76	Integrative Population and Physiological Genomics Reveals Mechanisms of Adaptation in Killifish. <b>2018</b> , 35, 2639-2653		20
75	Old Questions and Young Approaches to Animal Evolution. Fascinating Life Sciences, 2019,	1.1	1
74	Impact of transition to a subterranean lifestyle on morphological disparity and integration in talpid moles (Mammalia, Talpidae). <b>2019</b> , 19, 179		11
73	Are developmental shifts the main driver of phenotypic evolution in Diplodus spp. (Perciformes: Sparidae)?. <b>2019</b> , 19, 106		5
72	Leucine rich repeat kinase 2: a paradigm for pleiotropy. <b>2019</b> , 597, 3511-3521		6
72 71	Leucine rich repeat kinase 2: a paradigm for pleiotropy. 2019, 597, 3511-3521  Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 689-703	3.8	12
	Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International</i>	3.8	
71	Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 689-703	3.8	
71 70	Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 689-703  Isolability as the unifying feature of modularity. <b>2019</b> , 34, 1  Stage- and thermal-specific genetic architecture for preadult viability in natural populations of	3.8	12
71 70 69	Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 689-703  Isolability as the unifying feature of modularity. <b>2019</b> , 34, 1  Stage- and thermal-specific genetic architecture for preadult viability in natural populations of Drosophila melanogaster. <b>2019</b> , 32, 683-693  High-density three-dimensional morphometric analyses support conserved static (intraspecific)	3.8	12 O
71 70 69 68	Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 689-703  Isolability as the unifying feature of modularity. <b>2019</b> , 34, 1  Stage- and thermal-specific genetic architecture for preadult viability in natural populations of Drosophila melanogaster. <b>2019</b> , 32, 683-693  High-density three-dimensional morphometric analyses support conserved static (intraspecific) modularity in caecilian (Amphibia: Gymnophiona) crania. <b>2019</b> , 126, 721-742  Modularity increases rate of floral@volution and adaptive success for functionally specialized	3.8	12 O
71 70 69 68 67	Predicting evolutionary potential: A numerical test of evolvability measures. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 689-703  Isolability as the unifying feature of modularity. <b>2019</b> , 34, 1  Stage- and thermal-specific genetic architecture for preadult viability in natural populations of Drosophila melanogaster. <b>2019</b> , 32, 683-693  High-density three-dimensional morphometric analyses support conserved static (intraspecific) modularity in caecilian (Amphibia: Gymnophiona) crania. <b>2019</b> , 126, 721-742  Modularity increases rate of floral@volution and adaptive success for functionally specialized pollination systems. <b>2019</b> , 2, 453	3.8	12 O 22

63	Evolutionary selection and morphological integration in the vertebral column of modern humans. <b>2020</b> , 171, 17-36		9
62	Ecomorphological specialization leads to loss of evolvability in primate limbs. <i>Evolution; International Journal of Organic Evolution</i> , <b>2020</b> , 74, 702-715	3.8	3
61	Phenotypic integration in feliform carnivores: Covariation patterns and disparity in hypercarnivores versus generalists. <i>Evolution; International Journal of Organic Evolution</i> , <b>2020</b> , 74, 2681-2702	3.8	7
60	Genetic correlations in the rhesus macaque dentition. <i>Journal of Human Evolution</i> , <b>2020</b> , 148, 102873	3.1	3
59	Metamorphosis shapes cranial diversity and rate of evolution in salamanders. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 1129-1140	12.3	23
58	Form, Function and Evolution of the Skull of Didelphid Marsupials (Didelphimorphia: Didelphidae). <i>Journal of Mammalian Evolution</i> , <b>2021</b> , 28, 23-33	2.2	8
57	Evolvability and constraint in the primate basicranium, shoulder, and hip and the importance of multi-trait evolution.		
56	Pleiotropy and Its Evolution: Connecting Evo-Devo and Population Genetics. 2021, 1087-1096		
55	Evolvability and Constraint in the Primate Basicranium, Shoulder, and Hip and the Importance of Multi-trait Evolution. <i>Evolutionary Biology</i> , <b>2021</b> , 48, 221-232	3	2
54	Evolution of the locomotor skeleton in Anolis lizards reflects the interplay between ecological opportunity and phylogenetic inertia. <i>Nature Communications</i> , <b>2021</b> , 12, 1525	17.4	3
53	Sexual Dimorphism and Morphological Modularity in (Say, 1831) (: ): A Geometric Morphometric Approach. <i>Insects</i> , <b>2021</b> , 12,	2.8	1
52	Innovation in complex assembled electronic products: An analysis of the evolution of television components. <i>Journal of Operations Management</i> , <b>2021</b> , 67, 680-703	5.2	
51	What does modularity mean?. Evolution & Development, 2021, 23, 377-403	2.6	6
50	Developmental integration cannot explain major features of stomatal anatomical evolution in seed plants.		О
49	Developmental Evolutionary Biology (Devo-Evo). <b>2021</b> , 1033-1046		
48	Patterns of Trophic Evolution: Integration and Modularity of the Cichlid Skull. 2021, 753-777		3
47	Genotype Reuse More Important than Genotype Size in Evolvability of Embodied Neural Networks. <b>2007</b> , 915-924		2
46	Heritability is not Evolvability.		1

45	On the specificity of gene regulatory networks: How does network co-option affect subsequent evolution?. <i>Current Topics in Developmental Biology</i> , <b>2020</b> , 139, 375-405	5.3	9
44	The consequences of craniofacial integration for the adaptive radiations of Darwin's finches and Hawaiian honeycreepers. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 270-278	12.3	26
43	Genome-wide selection scans integrated with association mapping reveal mechanisms of physiological adaptation across a salinity gradient in killifish.		2
42	Pleiotropy or linkage? Their relative contributions to the genetic correlation of quantitative traits and detection by multi-trait GWA studies.		5
41	Resampling-based approaches to study variation in morphological modularity. <i>PLoS ONE</i> , <b>2013</b> , 8, e693	3 <b>76</b> .7	29
40	Divergent mechanisms regulate conserved cardiopharyngeal development and gene expression in distantly related ascidians. <i>ELife</i> , <b>2014</b> , 3, e03728	8.9	58
39	Designability and disease. <i>Methods in Molecular Biology</i> , <b>2008</b> , 484, 491-504	1.4	
38	Phenotypic Plasticity and Evolvability. 2009,		
37	Network Theory. <b>2014</b> , 43-67		
36	Evolutionary capacitance emerges spontaneously during adaptation to environmental changes.		
35	The genomics of local adaptation in trees: Are we out of the woods yet?.		
34	Complex Networks. <b>2019</b> , 23-36		
33	Loci, genes, and gene networks associated with life history variation in a model ecological organism,Daphnia pulex(complex).		
32	How Does Modularity in the Genotype <b>P</b> henotype Map Shape Development and Evolution?. Fascinating Life Sciences, <b>2019</b> , 237-249	1.1	1
31	The relative impact of evolving pleiotropy and mutational correlation on trait divergence.		
30	Developmental Evolutionary Biology (Devo-Evo). <b>2020</b> , 1-14		
29	A demogenetic individual based model for the evolution of traits and genome architecture under sexual selection.		О
28	Evolvability: A Quantitative-Genetics Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2021</b> , 52, 153-175	13.5	4

27	Evolvability in the fossil record. <i>Paleobiology</i> , 1-24	2.6	О
26	Technical and Social Complexity. <b>2021</b> , 1-30		O
25	Pleiotropy facilitates parallel adaptation in sticklebacks Molecular Ecology, 2022,	5.7	3
24	A demogenetic individual based model for the evolution of traits and genome architecture under sexual selection. 2,		1
23	Edge disturbance shapes liana diversity and abundance but not liana-tree interaction network patterns in moist semi-deciduous forests, Ghana <i>Ecology and Evolution</i> , <b>2022</b> , 12, e8585	2.8	О
22	Theme and variation in the evolution of insect sex determination <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2022</b> ,	1.8	1
21	The genetic basis of a novel reproductive strategy in Sulawesi ricefishes: How modularity and a low number of loci shape pelvic-brooding <i>Evolution; International Journal of Organic Evolution</i> , <b>2022</b> ,	3.8	
20	On the Fourier transform of a quantitative trait: Implications for compressive sensing <i>Journal of Theoretical Biology</i> , <b>2021</b> , 110985	2.3	O
19	The relative impact of evolving pleiotropy and mutational correlation on trait divergence. <i>Genetics</i> , <b>2021</b> ,	4	O
18	Allometric conservatism in the evolution of bird beaks <i>Evolution Letters</i> , <b>2022</b> , 6, 83-91	5.3	O
17	Genetic architecture of adaptive radiation across two trophic levels <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2022</b> , 289, 20220377	4.4	1
16	Morphological integration and evolutionary potential of the primate shoulder: Variation among taxa and implications for genetic covariances with the basicranium, pelvis, and arm.		
15	Partial reuse of circadian clock genes along parallel clines of diapause in two moth species.		
14	The modularity codes. <i>BioSystems</i> , <b>2022</b> , 104735	1.9	Ο
13	Evolvability and Macroevolution: Overview and Synthesis. Evolutionary Biology,	3	O
12	Morphological integration and evolutionary potential of the primate shoulder: Variation among taxa and implications for genetic covariances with the basicranium, pelvis, and arm. <i>Journal of Human Evolution</i> , <b>2022</b> , 169, 103221	3.1	O
11	Complexity, Evolvability, and the Process of Adaptation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2022</b> , 53,	13.5	
10	Technical and Social Complexity. <b>2022</b> , 221-250		

9	Morphological integration in the hominid midfoot. <b>2022</b> , 170, 103231	0
8	Morphological integration of the hominoid postcranium. <b>2022</b> , 171, 103239	1
7	Mosaic Evolution of the Skull in Labrid Fishes Involves Differences in both Tempo and Mode of Morphological Change.	2
6	The ecology and evolution of key innovations. 2022,	O
5	Exact expressions and numerical evaluation of average evolvability measures for characterizing and comparing G matrices.	0
4	Integrating genealogy and dental variation: contributions to biological anthropology.	O
3	Technical and Social Complexity. <b>2023</b> , 1-30	O
2	Evolutionary insights from an anatomical network analysis of the hyolaryngeal apparatus in extant archosaurs (birds and crocodilians).	O
1	Functional, genetic, and structural constraints on the exaggeration and diversification of male genital morphology in Ohomopterus ground beetles. <b>2023</b> , 26,	О