

INDEX.

- Adjustment between internal and external relations, 40
Adler on parthenogenesis in gall-wasps, 62
Adult organism, 6
Albrecht on parthenogenesis, 56, 58
Alcippe, 183
Alternation of generations, 115
American naturalist on spikehorn deer, 298
Anchorella, 179
Ancon sheep, 299
Animalculist, 22
Annelids, 173
Anolis, 198
Antirrhinum, 132
Apple, 90
Apus, 58
Arbacia, 66
Argus pheasant, 201
Aristotle on parthenogenesis, 55
Aristotle on latent sexual characters, 85, 105
Artemia, 58, 91
Arthropoda, sexual differences in, 173
Asexual reproduction, 11, 17, 143, 249
Ass and horse, hybrids from, 127
Babyrusa, 205
Bachman on variation of turkey, 150
Balfour on polar globules, 71
Barnacle, sexual differences in, 179, 181
Barrington on colors of birds, 207
Basset on parthenogenesis, 62
Bechstein on spurred hens, 210
Bee, reproduction of, 9
 " parthenogenesis in, 60
 " variation of, 145
Beetle, sexual differences in, 191
Bell-bird, sexual differences in, 202
Birds, female modification in, 203
Birds, sexual differences in, 199
 " weapons, etc., originally acquired by male, 199
Bischoff on parthenogenesis,—
Blumenbach on Polish fowl, 226
Bombyx, 58
Bonnet on evolution, 20, 85
Branchippus, 173
Buceros, 201
Budding in hybrids, 11
Bud-variation, 84, 144
Buffon on development, 26, 85

- Buffon on effect of castration, 106
 Butterflies, sexual differences in, 196
 Callionymus, 197
 Cattle, hybrids from, 130
 Cause of sex, 316
 Ceratophora, 198
 Chamelion, 199
 Changed conditions cause subsequent generations to vary, 149
 Cherry, variation of, 149
 Cladocera, sexual differences in, 175
 Claus on parthenogenesis, 58
 Cohn on parthenogenesis, 66
 Color changed by a change of food, 90
 Congenital characters not always hereditary, 93
 Conn on cause of variation, 294
 Copepoda, sexual differences in, 175
 Correlated variation, 84, 157
 Crabs, sexual differences in, 186
 Crayfish, dimorphism in, 188
 Crossing as a cause of reversion, 132
 Crossing as a cause of variation, 119
 Cryptophyalus, 183
 Cultivated plants, variation of, 146
 Cyclops, sexual differences in, 175
 Dall on saltatory evolution, 83
 Daphnia, parthenogenesis in, 57
 Darwin, 85
 " on bud variation of orange, 147
 " on causes of variation, 275
 " on compound personality, 114
 " on complexity of the germ, 114
 " on correlated variation, 84
 " on direct action of external conditions, 90
 " on evolution of eye, 282
 " jappanned peacock, 299
 " on latent transmission of sexual characters, 105
 " on modification of male butterflies, 196
 " on pangensis, 48
 " on parallel or analogous variation, 302
 " on reciprocal hybrids, 129
 " on reversion, 10, 115, 132
 " on reversion in horse, 133
 " on selection, 12
 " on sexual characters of birds, 199
 " on sexual selection, 169, 212
 " on transmission by each sex, 100
 " on transmission without fusion, 131

- Darwin, on variation, 141, 146,
149, 153
 " on variation from
crossing, 120, 122
 " on variation of species
of large genera, 153
 Development often indirect, 24
 Dianthus, variability of hybrid,
124
 Direct influence of external con-
ditions, 89
 Dog, reversion in, 10
 " hybrids from, 131
 " variation of, 91, 150
 Domesticated animals more va-
riable than wild ones, 142
 Edmundston on sea-gull, 93
 Education and culture, 272
 Elephant, 205
 Epigenesis, 20, 27
 " and evolution, 24
 Evadne, 58
 Evolution and division of labor,
313
 " Bonnet on, 20
 " of complicated or-
gans, 156
 " definitions of, 20
 " Huxley on, 20
 " hypothesis logically
imperfect, 82
 " morphological aspect
of, 313
 " saltatory, 157, 296
 Falconer on variation of dog
and goat, 91
 Female modification, 235
 Fishes, sexual differences in,
196
 Fish-lice, sexual differences in,
177
 Fowls, hybrids from, 129, 131
 " modification of female,
222
 " reversion in, 135
 Gall-wasp, parthenogenesis in,
62
 Gallus bankiva, reversion to,
135
 Galton on pangenesis, 53
 " on saltatory evolution,
296
 Gärtner on variability of hy-
brids, 120, 124
 Gegenbauer on nature of ovum,
28
 Gelassimus, 189
 Gemmules, 82
 Gerstaecker on parthenogene-
sis, 56
 Godine on hybrid sheep, 129
 Goose, inflexibility of, 142
 Haeckel on perigenesis, 33, 45
 " on phylogeny of Me-
dusæ, 304
 " on significance of onti-
geny, 30
 Hagen on dimorphism of cray-
fish, 188
 Haller on evolution, 20
 Huxley on evolution, 20
 Harvey, 22
 Hemp, variation of, 90
 Hen, parthenogenesis in, 67
 Heredity, theory of, 16, 80
 " ontogenetic and phy-
logenetic, 311
 " and memory, 37

- Heredity, speculations on, 18
 " meaning of word, 6
 " proper subject for study, 12
 " how caused, 81.
 Hinney, 127
 Hippocrates on viragines, 105
 Holmgren on pigeon, 93
 Homology of ovum and male cell, 102
 " significance of, 307
 Hornbill, 201
 Horse and ass, hybrid from, 127
 " in mines, 91
 " reversion in, 10, 133
 Humming bird, 201
 Hunter on latent transmission, 109
 " on sea-gull, 92
 Huxley on evolution and epigenesis, 46
 " on reciprocal crosses, 127
 " on saltatory evolution, 83, 296
 " on transmission by each sex, 100, 102, 103
 Hybrids, argument from, 99
 " evidence from, 118
 " summary of chapter on, 137
 " variation of, 18
 Hydroids, budding in, 11
 " heredity in, 113
 Ibla, 182
 Inheritance of a tendency, 88
 Insects, sexual differences in, 189
 Intellectual differences between men and women, 242
 Jäger on heredity, 41, 45, 85
 Jurine on parthenogenesis, 57
 Kipp on parthenogenesis, 59
 Kirtland on variation of cherry, 189
 Köhreuter on hybrids of *mirabilis*, 120
 Latent transmission of sexual characters, 104, 117
 Leckey on male and female mind, 269
 Leptodora, parthenogenesis in, 57
 Leydig on rotifera, 171
 Life, definition of, 39
 Life and memory, 38
 Lion, hybrid from with tiger, 130
 Lizards, sexual differences in, 198
 Lyell on variation of dog, 150
 Leeuwenhoek, discovery of spermatozoa, 21
 Lubbock on parthenogenesis, 57
 Lucifer, sexual differences in, 184
 Male mind progressive, 257
 Male more eager than female, 230
 Male and female types of character, 259
 Male cell, properties of, 81
 " functions of, 84

- Male cell, discovery of, 21
 Male more variable than female, 160
 Male fish originally varied, 198
 Male more modified than female, 170
 Manx cat, hybrid from, 128
 Many individuals must vary together, 155, 277
 Mammals, sexual differences in, 204
 Man, sexual differences in, 204
 Manchamp merino sheep, 299
 McCrady on polar cells, 70
 Medusæ, parallel variation in, 303
 Mice, hybrid, 131
 Mill on subjection of women, 264
 Mirabilis, variation in, 120, 121
 Mivart on homology, 310
 " on requisites of a theory of heredity, 86
 " on saltatory evolution, 83, 297
 " on sudden variation of plants, 301
 " on time needed for evolution, 284
 Mollisia, 197
 Moquin-Tandon on variation of plants, 94
 Moths, parthenogenesis in, 59
 Mule, 127, 134
 Müller on dimorphism in crustacea, 188
 Natural selection, 12, 14, 275
 Narwhal, 205
 Nervous system, development of, 23
 Neuroterus, 63
 Niata cattle, hybrids from, 130
 North British Review, argument against natural selection, 277
 Notedelphys, 177
 Oelacher on parthenogenesis, 67
 Onitis, 193
 Orange, bud-variation in, 147
 Orchestia, 187
 Origin of sex, 314, 316
 " of complicated organs, 281
 Ornithorinchus, 205
 Ostracoda, 175
 Ovist, 22
 Ovum, complexity of, 87
 " development of, 23
 " function of, 84
 " homologous with other cells, 23
 " properties of, 8, 81
 " structure of, 22
 Ovum and male cell, difference in function of, 53, 74
 Ovum and male cell, homologous, 17
 Pander, 22
 Pangenesis hypothesis, Darwin's, 50, 121, 124
 Pangenesis hypothesis, Galton's objection to, 53
 Pangenesis hypothesis, objections to, 53
 Pangenesis hypothesis, remodelled, 80

- Paradise birds, 201
 Parallel or analogous variation, 302
 Parthenogenesis, 55
 Peacock, variation in, 299
 Perigenesis, 33
 Pheasant, 203
 Pigeon, direct modification of, 94
 " modification of male, 218
 Polar cells, 70
 Polish fowl, 225
 Pollicipes, 181
 Psyche, 61
 Pteromalus, 65
- Reciprocal hybrids, 125
 Reproduction, 19
 " by immature animals, 43
 " of bees, 9
 " of marine animals, 9
 " sexual and asexual, 11, 17, 249
- Requisites of theory of heredity, 16
- Reversion, 17
 " by crossing, 132
 " Darwin on, 10, 115
 " in dogs, 10
 " in horses, 10
 " and Jäger's hypothesis, 44
 " two kinds, 133
 " in offspring of hybrids, 136
 " of lost instincts, 135
- Rhodites, 65
- Rotifera, 66, 171
 Ruminants, 206
- Saltatory evolution, 83, 157, 296
 Salter on variation of strawberry, 91
 Saphirrina, 176
 Sassafras in Europe, 90
 Scalpellum, 181
 Schäffer on parthenogenesis, 56
 Sea-gull, 92
 Sea urchin, 66
 Secondary sexual characters, 166
 Semper on Lymnaeus, 92
 Sex of parent, influence of, 18, 123
- Sexual differences in
 Agrion, 229
 Alcippe, 183
 anchorella, 179
 argonauta, 237
 arthropoda, 173
 barnacles, 179, 181
 beetles, 191
 branchippus, 173
 call duck, 236
 cave beetles, 237
 cicada, 188
 cladocera, 175
 copepoda, 175, 177
 crabs, 186
 crayfish, 188
 cryptophyalus, 183
 cyclops, 175
 gelassimus, 189
 ibla, 182
 insects, 188, 236
 lernentoma, 176
 locustidæ, 188

- Sexual differences in lucifer,
 184
 notodelphys, 177
 onitis, 193
 orchestia, 187.
 ostracoda, 175
 papilio turnus, 237
 paradise birds, 237
 phasmidæ, 236
 pollicipes, 181
 rotifera, 171
 saphirrina, 176
 scalpellum, 181
 shrike, 237
 social insects, 237
 tanais, 188
- Sexual dimorphism, 187
 " reproduction, 11, 17, 143,
 289
 " selection, 169, 212
- Sheep, hybrid, 129, 131
 " modification of male,
 222
 " variation in, 297
- Siebold on parthenogenesis, 55
- Simpson on hermaphroditism,
 109
 " on latent transmis-
 sion, 106
- Sitana, 198
- Smerinthus, 59
- Solenobia, 61
- Sow, parthenogenesis in, 67
- Spurred hen, 210
- Spathogaster,
- Species of large genera, 153
- Speculations on heredity, 18
- Spermatozoa, discovery of, 21
- Spencer, definition of life, 38
 " on Irish elk, 287
- Spike-horn deer, 298
- Staphylinidæ, 194
- Strongylocentrotus, 66
- Sweet pea, hybrid, 132
- Tanais, 188
- Theory of heredity, 319, 16
- Tiger, hybrid, 130
- Transmission without fusion,
 131
- Turkey, variation of, 150
- Uhler on polymorphism, 238
- Variability, how caused, 82
 " of offspring of hy-
 brids, 122
 " of sexual charac-
 ters, 154
- Variations, 13, 17
 causes of, 140, 275, 293
 caused by climate, 142.
 " change of food, 142
 " crossing, 119
 " excess of food, 143
 correlated, 157
 of exceptional parts, 153
 of homologous parts, 158
 of hybrids, 18
 law of equable, 154
 of male butterflies, 195
 of organisms produced sex-
 ually, 143, 249
 parallel or analogous, 302
 and sexual reproduction, 249
 of species of large genera, 153
 summary of chapter on, 161
- Viragines, 105
- Von Baer, 22

-
- | | |
|---|--|
| Wallace on colors of female birds, 208 | Wichura on variation of hybrid willow, 124 |
| “ on polymorphism, 238 | Wilson on parthenogenesis, 66 |
| Walrus, 205 | Wolff on heredity, 22 |
| Walsh, law of equable variation, 154 | Xiphophorus, 198 |
| Wart hog, 205 | Yarrell on removal of oviduct, 105 |
| Waterton on hen with male characters, 106 | “ on variation of dog, 150 |
| Weismann on parthenogenesis, 57, 68, 69 | Zebra, hybrid, 129 |