

INDEX

- Abt Vogler**, 47.
Acquired characters, transmission of, 14, 15, 40, 96.
Aecidiomycetes, reproduction in, 169.
Aglia tau, development of, 175.
Amphigonic reproduction, 106, 167.
Amphimixis, 99, 176, 193, 218; definition of, 180, 199; appearance of, 210.
Ants, 20, 28; slaves of, 25.
Aphidae, polar bodies in, 112; parthenogenesis in, 167, 218.
Apteryx, 3.
Apus, parthenogenesis of, 109, 167, 198, 217.
Aristotle, on heredity, 106.
Artemia, parthenogenesis of, 109, 153, 155.
Ascaris megalocephala, fertilization of, 86, 91, 132, 146, 172; lumbricoides, 146; formation of spermatozoa, 147; development of spermatozoa in, 117; of ovum, 126.
Aseomycetes, parthenogenetic, 169.
Auerbach, on nuclear division, 112.

Baccillariaceae, fusion amongst, 195.
Bach, 45.
Balbiani, on parthenogenesis, 108; on Infusoria, 177, 183.
Balfour, on polar bodies, 106, 111.
Basidiomycetes, parthenogenesis in, 169.

Bees, larvae of, 28; parthenogenesis of, 109, 171, 198, 211.
Beethoven, 46.
Bellini, 47.
Bergh, on nuclear division in Infusoria, 183.
Berthold, on parthenogenesis, 91.
Biorhiza, parthenogenesis in, 219.
Blochmann, on polar bodies, 111, 171.
Böhm, on fertilization, 204.
Bombyces, 27, 174.
Boveri, on fertilization in *Echinus*, 92, 114, 146; on nuclear loops, 117, 128, 131, 172.
Brahms, 47.
Branchiopods, polar bodies in, 152.
Brindis y Salas, negro musician, 44.
Bunge, on vital processes, 110, 196.
Bütschli, on nuclear division, 112, 177, 181, 196; on polar bodies, 114.

Caecilia, absence of sense organs in, 9, 28.
Callwitz, 45.
Carcinus, II.
Carinaria, number of idants in, 134.
Carnoy, on maturation of ovum, 126.
Cat, influenced by music, 55; number of cells in cochlea, 57.
Caves, in Carniola and Carinthia, 7; mammoth of Kentucky, 7; near Trieste, 17.

- Chamisso, 38.
 Cherubini, 47.
 Cimarosa, 45.
 Clementi, 52.
 Cocconeis, fusion of, 195.
 Cochlea, number of cells in human, 57.
 Colpidium, reproduction in, 179.
 Combination nucleus, 179.
 Conjugation, significance of, 189.
 Cook, Captain, 38.
 Corti, organ of, 56.
 Cramer, 47.
 Crustacea, blind, 7; parasitic, 10.
 Cyclopidae, fertilization in, 174.
 Cynipidae, parthenogenesis in, 167, 219.
 Cypris, variation in, 161, 167; organic reproduction, 198, 211, 218.
 Cyprois, reproduction of, 218.
 Czerny, 47.
 Daphnids, polar bodies in, 111, 152; parthenogenesis of, 167, 216.
 Darwin, on natural selection, 15, 33; on sexual selection, 34; on pangenesis, 79, 81.
 Death, of the Protozoa, 201, 203, 207.
 De Bary, on parthenogenesis, 108.
 Degeneration, general, 6, 18, 20, 22, 27; of sense of smell, 9; of ear, 9; of parasites, 10, 12; of parts of flower, 18; of instinct to flee, 24.
 Development, retrogressive, 1, 3, 17.
 De Vries, on pangenesis, 81, 96, 128.
 Disuse, 6, 7, 12, 15, 26.
 Dog, influenced by music, 55.
 Dolphin, degeneration of sense of smell, 9; naked skin, 19.
 Domestic animals, loss of original colour of, 19; instinct to escape, 23.
 Echinus, fertilization in, 92, 146.
 Ectocarpus, parthenogenesis in, 91.
 Engelmann, 177, 196.
- Entoniscidae, 11, 12, 23.
 Ephemeridae, 27, 28.
 Epicrium, auditory organ of, 9.
 Eternity, 74, 78.
 Euglypha, division of, 184.
- Farlow, on parthenogenesis, 108.
 Flemming, on nuclear division, 112, 139, 173.
 Fol, on penetration of light in water, 8; on fertilization, 105, 173, 176.
 Forel, on penetration of light in water, 8; on ants, 26.
Formica fusca, 26.
 Fux, Joseph, 45.
- Geddes, on nature of nucleus, 85.
 Germ cells, 77, 81.
 Germ nucleus, 159.
 Germ plasm, continuity of, 82, 83, 95.
 Giard, on polar bodies, 114.
 Gonoplastid theory, 170.
 Greeks, music of, 39.
 Gruber, on fission in Infusoria, 86, 177, 181, 191.
 Guinea-pig, 24.
 Gurney, on 'The Power of Sound,' 66.
- Hanslick, on 'The Beautiful in Music,' 66.
 Harvey, on conception, 106.
 Hasse, 47, 56.
 Hawaiians, music of, 38.
 Haydn, 45, 52.
 Helmholtz, on the auditory organ, 56.
 Henking, on formation of germ-cells, 139, 141.
 Hensen, on fertilization, 106, 108, 196.
 Herbart, 80.
 Heredity, 81.
 Hermit crab, 19.
 Hertwig, O., 83, 92, 105, 111, 112, 114, 119, 126, 132, 147, 176, 189.
 Hertwig, R., 92, 105, 176, 181, 184, 196, 207.
 Huber, on ants, 26.
 Hummel, 47, 52.

- Hydroids**, migration of germ-cells in, 84; reproduction in, 214.
- Idants**, definition of, 130; number of, 146.
- Idioplasm**, 82, 83, 85, 92, 112, 114.
- Ids**, definition of, 130.
- Immortality**, 74, 78, 87, 209.
- Infusoria**, artificial fission in, 86, 191; conjugation of, 87, 90, 177, 191.
- Insecta**, polar bodies in, 152.
- Instincts**, 24, 25, 26.
- Ischikawa**, on polar bodies, 111.
- Isopods**, parasitic, 11, 12.
- Jewish musicians**, 49.
- Kiwi-kiwi**, 3, 4, 5, 28.
- Klein**, on *Volvox*, 77.
- Kölliker**, criticisms of, 92, 94.
- Kupffer**, on fertilization, 204.
- Lepidoptera**, parthenogenesis in, 171, 175.
- Leuckart**, on parthenogenesis, 108, 214.
- Light**, penetration of, in water, 8.
- Limnadia**, parthenogenesis of, 109, 167.
- Liparis**, parthenogenesis of, 109, 171.
- Liszt**, 52.
- Lotti**, 47.
- Lotze**, 80.
- Löwenhoek**, on fertilization, 106.
- Lubbock**, on ants, 26.
- Malpighi**, on fertilization, 106.
- Martin Luther**, 45.
- Maupas**, on conjugation, 87, 93, 177, 183, 189, 196.
- Micronuclei**, function of, 181; meaning of division of, 185.
- Minot**, on polar bodies, 111.
- Moa**, 5.
- Moina**, 88, 89, 206, 217.
- Moles**, loss of sight in, 8.
- Mollusca**, number of idants in, 146.
- Moscheles**, 52.
- Mozart**, 47, 52, 62.
- Music**, origin of, 53, 97.
- Musical sense**, 33, 55.
- Mutilations**, not inherited, 41.
- Nageli**, on idioplasm, 112, 194.
- Natural selection**, 15, 21, 23, 33, 35.
- Naumann**, 45.
- Negroes**, talent for music of, 44.
- Nematodes**, number of idants, 146.
- Newts**, 16.
- New Zealanders**, music of, 38.
- Nucleus**, significance of, 194.
- Nussbaum**, on division in Infusoria, 86, 191.
- Oncidium**, eyes of, 183.
- Onychodromus**, conjugation in, 185, 187.
- Ostracoda**, parthenogenesis in, 110, 161, 167, 217; polar bodies in, 111, 152.
- Ostrich**, 5, 6.
- Ovum**, maturation of, 114, 122, 123, 126, 132; in parthenogenetic, 150.
- Oxytrichidae**, 187.
- Palestrina**, 45.
- Pandorina**, 77, 200.
- Pangenesis**, 79, 81, 128.
- Panmixia**, 21, 22, 27, 76, 209.
- Paramaecium**, reproduction of, 177, 185.
- Parasites**, 10.
- Parthenogenesis**, 91, 108, 111, 150, 156, 167, 218; in Fungi, 94, 169; in Ostracoda, 110; inheritance in, 159, 166; in Cypris, 161; in plants, 169; origin of, 170, 175; limitation of, 216.
- Pauer**, 52.
- Penguin**, 6, 10.
- Petromyzon**, fertilization of, 204.
- Pfitzner**, on nuclear division in Infusoria, 183.
- Pfluger**, on parthenogenesis, 108.
- Phryganidae**, 19.
- Phyllirhoe**, number of idants in, 134.
- Phyllopods**, 167, 217.
- Phylloxera**, 167, 211.

- Platner**, on formation of germ-cells, 138, 172.
Polar bodies, 86, 93, 114, 115, 119, 170; parthenogenetic, 93, 111.
Polyergus rufescens, 25.
Polypheirus, polar bodies of, 111.
Problems, of the Day, 71.
Proteus, blind, 7, 28.
Psyche, parthenogenesis of, 109.
Psychidae, 19.
Pteris, parthenogenesis in, 169.
Pyrrhocoris, on formation of germ-cells in, 139, 141.
- Quanz**, 45.
- Rabbit**, number of cells in cochlea, 57.
Reineke, 47.
Rejuvenescence, theory of, 195.
Retzius, on the cochlea, 57.
Rhodiets, parthenogenesis in, 220.
Rolph, explanation of parthenogenesis, 172.
Rossini, 47.
Rotifers, 27; polar bodies in, 111, 152; parthenogenesis in, 216.
Rousseau, on the origin of music, 53.
Rudimentary organs, 28.
- Sagitta**, number of Idants, 146.
Sarasin, on penetration of light in water, 8: on Epicrium, 9.
Scarlatti, 47.
Scheibe, on the origin of music, 53.
Schewiakoff, on division in Infusoria, 184.
Schopenhauer, 29.
Scytophion, parthenogenesis in, 91.
Semper, on eyes of Oncidium, 183.
Sexual selection, 34, 39.
Siebold, von, on parthenogenesis, 108.
Solenobia, parthenogenesis of, 109.
Soma, 74, 79.
- Somatic**, cells, 77, 81; idioplasm, 83.
Somatoplasm, 83.
Spencer, Herbert, on the origin of music, 53.
Spermatozoon, maturation of, 117, 122, 123, 132.
Sphaerechinus, fertilization in, 92.
Stentor, 181, 192.
Strasburger, 83, 86, 92, 95, 112, 150, 168, 172, 189.
Stumpf, on the origin of music, 53.
Sully, on 'Sensation and Intuition,' 66.
Swammerdam, on fertilization, 106.
- Tahitians**, music of, 38.
Thalberg, 52.
Theories, real and ideal, 80.
Tiara, number of idants in, 146.
Troubadours, 42, 69.
Twins, 133.
- Urostyla**, division of, 184, 186.
- Van Beneden**, on fertilization, 85, 91, 111, 114, 196; on nuclear division, 112, 126, 131, 172, 176.
Variation, origin of, 95; in parthenogenetic form, 161, 166.
Vines, criticisms on Vol. i, 73, 78, 92, 94.
Volkmann, 47.
Volvox, 77.
Vorticellidae, behaviour of micro-nucleus in, 187.
- Waldeyer**, on nuclear loops, 85.
Wallace, on natural selection, 15, 33.
Wasps, parthenogenesis of, 109.
Weber, 46.
Whales, degeneration of sense of smell, 9; naked skin, 19.
Whitman, on nature of nucleus, 85.
- Xenarchus**, 34.

Oxford

PRINTED AT THE CLARENDON PRESS

BY HORACE HART, PRINTER TO THE UNIVERSITY