

INDEX

- abstracts, 157, 301
 acentrics, 8
 alsike clover, 51
 Anderson, D., 379
 Anscombe, F. J., 152
 antigens, 285
Antirrhinum, species crosses, 195
 Argikar, G. P., 143
Aspergillus nidulans, 157
 autografts, 381, 384
 autoradiographs, 158
- bacteria, estimation of linkage, 111
 Bailey, N. T. J., 111, 151, 289, 440
 Barigozzi, C., 415
 barley, 309
 inbreeding in, 321
 Bateman, A. J., 157, 271, 321
 bees, taxonomic discrimination, 271
 Bhat, N. R., 143
 bibliography, genetical books, 437
 Biggar, W. S., 135
 Billingham, R. E., 379
bimacula gene, 356
 biotin, linkage of loci, 157
 blood groups, 95, 103
 blood-group systems, 95
 Blyth, J. S. S., 215
 Boyd, W. C., 441
- Candolle, Alphonse de, 305
 cattle, quadruplets, 135
 twins, 379
 centre, of diversity, 312
 of origin, 312
Cepaea nemoralis, 125
 cereals, 305
 chromosome attraction, 261
 breakage, 1
 numbers, 239, 253, 279
 repulsion, 261
 chromosomes of hyacinths, 235
Cicer arietinum, 143
 cleistogamy, 195, 199
 inheritance of, 203
 clover, 51
 compound chromosomes, in *Spirogyra*, 158
 cotton, 161
- Darlington, C. D., 153, 233, 445
 Dempster, E. R., 75
 dicentrics, 8
dominula gene, 356
 Donald, H. P., 135
- Drosophila*, 2, 76
 melanogaster, 415
Duffy blood groups, 95, 103
- egg production, poultry, 84
Escherichia coli, 111, 289
 evolution of cereals, 306
- Fisher, R. A., 95, 150, 301
 flower constancy of bees, 273
 Ford, E. B., 155
 fowls, 215
 fractionation, 1
 Frankel, O. H., 439
 Fraser, A. S., 157
Frittilaria, 41
- Galton, F., 439
 gene centres, 305, 310
 theory of, 310
 gene dispersion, 433
 Genetical Society, abstracts of papers, 157,
 301
 genetic correlation, progeny tests, 301
 genotype testing, 400
 Godward, M.B.E., 158
Gossypium hirsutum, 161
 geographical races of, 163
 Greenwood, A. W., 215
- Hair, J. B., 233
 heterocaryosis, in *Penicillium*, 302
 heterochromatin, 37, 415, 431
 origin of, 47, 48
 hexaploid wheats, 314
 history of cultivated plants, cereals, 305
 hyacinths, 233
 Holt, H. A., 103
 homeostasis, 75
 homografts, 381, 387
 homozygosis, 321
Hordeum, 308
 Howard, A., 158
 Howard, W. H., 303
 Hurcombe, R., 233
 Hutchinson, J. B., 161
 hyacinths, varieties, 234
 chromosomes, 235
 history of, 233
Hyacinthus orientalis, 233
 amethystinus, 234
- inbreeding, 321
 mechanism, cleistogamy in *Antirrhinum*,
 210

- incompatibility, 51, 211, 399
 gene, 399
 evolution of, 66
 induced mutation, types of, 399
 X-rays, 405
 intra-specific differentiation, 161
 isochromatid breaks, 27
- Jinks, J. L., 302
- Kosambi's formula, 145, 301
- La Cour, L. F., 37
 Lampkin, G. H., 379
 land-snail, 125
 Lane, G. R., 1
 Lein, A., 147
 leptokurtosis, 433
 Lerner, I. M., 75
 lethal allele, mouse, 302
 Lewis, D., 399
 linkage, in bacteria, 111
 in *Cicer arietinum*, 143
 of loci controlling biotin requirements, 157
 test of significance, 113
 tests, 301
 Logan, D. M., 135
- marking in poultry, 215
 Mather, K., 195, 321, 443
 Medawar, P. B., 379
medionigra gene, 356
 mice, 302
 mottled phenotype, 157
 "minutes," 10
 MNS system, 96
 moths, 349
 mottled phenotype in mice, 157
 Muldal, S., 153
 mutation, induced, 399
 multiple, 439
 revertible, 409
 spontaneous, 399, 402
- nomenclature of *Triticum species*, 318
 nucleolar constrictions, 45
 nucleoli, 37
 nucleic acid, 37
 cycle, 26
 supply, 46
- origin of cultivated plants, 233, 305
 origins of agriculture, 317
Ornithogalum, 253
caudatum, 259
graminifolium, 254
 Owen, A. R. G., 301, 444
- pairing in *Ornithogalum*, 253
Panaxia dominula, 349
Paris polyphylla, 40
 paternity and blood groups, 101
 Pelc, S. R., 158
Penicillium, 302
 Penrose, L. S., 302, 441
 phenylketonuria, pleiotropic effect, 302
 phosphorus, 32, 158
 polygenic balance, 76
 polyploidy in *Spirogyra*, 158
 populations, gene dispersal, 433
 of *Panaxia*, 349
 population size, estimation, 362
 poultry, 75, 215
 precocity theory, 261
 progeny tests, 301
 pseudo-compatibility, 68
 pseudo-fertility, 409
- quadruplets, in cattle, 135
- Race, R. R., 103, 158, 285
 recombination fractions in *Escherichia coli*, 289
 Reeve, E. C. R., 301
 restitution, 25
 reunion, 15, 24
 reviews, book—
 O. Winge. *Inheritance in Dogs*. R. A. Fisher, 149
 Report of the Biological and Medical Committee. *Papers of the Royal Commission on Population*. N. T. J. Bailey, 150
 Scottish Council for Research in Education. *The Trend of Scottish Intelligence*. F. J. Anscombe, 151
Discussion on the Present Status of Radiation Genetics. C. D. Darlington, 152
 S. Makino. *A Review of the Chromosome Numbers in Animals*. S. Muldal, 153
 C. Stern. *Principles of Human Heredity*. E. B. Ford, 153
 I. M. Lerner. *Population Genetics and Animal Improvement*. K. Mather, 296
 J. B. Hutchinson, R. A. Silow and S. G. Stephens. *The Evolution of *Gossypium* and the Differentiation of Cultivated Cottons*. D. G. Catcheside, 298
 C. S. Coon, S. M. Garn and J. B. Birdsell. *Races*. C. D. Darlington, 299
 A. L. Hagedoorn. *Plant Breeding*. G. Haskell, 299
 J. Fyfe. *Lysenko is Right*, 300
 J. S. D. Bacon. *The Science of Heredity*, 300
 Francis Galton. *Heredity Genius*. N. T. J. Bailey, 439
 W. C. Boyd. *Genetics and the Races of Man*. L. S. Penrose, 441

INDEX

- reviews, book—
 A. Sorsby. *Genetics in Ophthalmology*.
 W. J. B. Riddell, 442
 K. Mather. *The Measurement of Linkage in Heredity*. A. R. G. Owen, 443
 L. H. Snyder. *The Principles of Heredity*.
 C. D. Darlington, 444
- Rh* antigens, 285
 chromosome, human, 158
 factor, human, 285
- Riddell, W. J. B., 443
- Roper, J. A., 157
- S-alleles, 399
- Sanger, R., 158, 285
- Schieman, E., 305
- Scilla sibirica*, 44, 45
- Searle, A. G., 302
- secondary association of chromosomes, 264
- secondary pairing in *Ornithogalum*, 253, 265
- self-fertility, 51
- self-incompatibility, 157
- selection, 333
 in hyacinths, 243
 in *Cepaea nemoralis*, 125
 in poultry, 75
 pressure, 81
- sex chromosomes, 263, 415
- sex-linked crosses, poultry, 215
- shank length in poultry, 77
- Sheppard, P. M., 349
- sister reunion, 25
- Skellem, J. G., 433
- skin grafting, 379
- S-locus, 399
- Slope, D., 437
- Snoad, B., 279
- Snyder, L. H., 444
- Sobey, S., 157
- somatic pairing, 263
 in *Ornithogalum*, 253, 265
- Sorsby, A., 442
- species crosses, *Antirrhinum*, 195
- Spirogyra*, 158
- spontaneous mutation, 399, 402
- succulent plants, chromosome numbers, 279
- taxonomic discrimination of bees, 271
- Therman, E., 253
- Thompson, J. S., 103
- thrushes, 125
- Tradescantia*, 2
bracteata, 6
- Trifolium hybridum*, 51
- Trillium*, 38
apetalon, 39
erythrocarpum, 39
sessile, 37
Tschonoskii, 39, 40
- Triticum*, 147, 307, 318
- Turdus ericetorum*, 125
- twins, 99, 379
- twin diagnosis, 394
- variance, in progeny tests, 301
- Vavilov, N., 306
- viability of *Escherichia coli*, 289
- Vicia faba*, 40, 41
- Vines, A., 195
- watercress, 303
- wheat, 147, 309, 439
- Williams, W., 51
- X-ray fractionation, 1
 induced mutation, 405
- γ -chromosome, 415