

INDEX OF SUBJECTS

- affinity in cotton, 21-26
 analysis of diallels, 669-680
 angiosperms, 435-457
 animal species and evolution, 744
Aspergillus nidulans, 63-73, 75-95
 autoimmune disease in mice, 419-434
 autotetraploid sorghum, 403-417
- bacterial genetics, 742
 bacterial viruses, 742
 basic genetics, 522
 biological order, 164
 biometrical analysis, 629-649
 biosynthesis during meiosis, 169
- Canalisation, 334-335
 cell proliferation, 519
 chiasma frequency, 347, 736-738
 chimerical mutants in potatoes, 347
 chromosomal polymorphism, 734-736
 chromosome anomalies, 531
 assays in *T. aestivum*, 528
 behaviour in rye, 357-367
 botany, 158
 marker, 162
 numbers in *Herniaria*, 346
 cold hardiness in *Medicago*, 173-179
Collybia velutipes, 530
 competition in *Drosophila*, 681-699
 crossovers, 585-596
Cucurbita, 229-236
 cytogenetical evidence on affinity in cotton,
 21-26
 cytological diploidisation in wheat, 527
 cytoplasmic variant in *Aspergillus*, 63-73
- Dactylis glomerata*, 736-738
Delphinium, 53-61
 diallel cross, 207-227, 669-680
 diallel cross technique, 27-46
 dikaryotic growth in *Schizophyllum*, 629-649
 diploid and tetraploid recombination fre-
 quencies, 585-596
 disruptive selection, effects of, 125-130
 distribution of chiasmata, 719-730
 dominant inheritance, 651-668
 dominant lethals in mice, 191-200
Drosophila, 711-718
Drosophila melanogaster, 105-124, 334-335,
 681-699
Drosophila pseudoobscura, 597-614
- ecological genetics, 745
 egg weight in the domestic hen, 348
 environment and selection, 105-124
 evaluation, of bivariate normal volumes,
 144-145
 of homœology, 527
- evolution, 343
 of outbreeding, 435-457
 evolutionary studies on *M. jurtina*, 471-488
 experimental taxonomy, 345
- farbloise algen, 337
 fertility improvement in sorghum, 403-417
 in autotetraploid *Sorghum*, 543-558
 in *Vicia faba*, 271-277
 fungal genetics, 161
- gene action and interaction in chickens and
 mice, 171
 distributions in diallels, 27-46
 effects in *Medicago sativa*, 173-179
 frequencies in cats, 47-51
 genetic analysis of mutants, 301-312
 genetic control, in *A. nidulans*, 529
 of dormancy, 489-504
 of germination in tomato, 171
 genetic radiation damage, 520
 response, 734-736
 studies of tumours in mice, 172
 studies on populations of *Melandrium*, 1-19
 transformation, 259-269
 genetical control, in mice, 279-288
 of chromosome number, 533-542
 genetically equivalent bivalents, 289-299
 genetics and development, 337
 of bacteria and their viruses, 525
 genotrophs in *Linum*, 207-227
 genotype frequencies of a cline, 507-509
 genotypic control in chiasma distribution,
 719-730
- hatchability effects in chickens, 171
 heterokaryosis in *A. nidulans*, 168
- inborn errors of metabolism, 342
 inheritance in tobacco, 615-628
 instability at locus of *A. majus*, 168
 inter-allelic complementation, 528
 interchange heterozygotes, 53-61
 inversion polymorphism, 331-334
 iso-chromosome in a human female, 344
- leaf shape in tobacco, 615-628
 linkage in *Peromyscus*, 701-709
 with censored data, 512-515
 low selection intensity, 125-130
- Maniola* in the Scilly Isles, 471-488
 mating systems, 369-381
 medical genetics, 340
Melandrium, wild populations of, 1-19
 metabolic deficiency among potato mutants,
 170
 metric traits in man, 651-668
 modal selection, 559-583

- moderne methoden der pflanzenanalyse, 165
 mutagen specificity, 530
 mutagenesis, 529
 mutant alleles, 301-312, 313-325, 327-330
 plastids in a *Pelargonium* cross, 516-518
 mutants of *A. nidulans*, 167
 mutation expression, 530
 somatic and germinal, 237-258
 mutations in mice, 191-200
 of *D. melanogaster*, 531
- non-additive combining abilities, 97-103
 non-disjunction in *Drosophila*, 344
 non-random outcrossing in *Phaseolus*, 369-381
 nuclear genes, 529
 nucleo-cytoplasmic interactions, 75-95
- origin of races, 157
- Pal* locus in *Antirrhinum*, 237-258
 pathology of development, 338
 penetrance and expressivity of *eyeless*, 170
Pennisetum, 533-542
Philenus spumarius, 383-401
 pigment restriction in potatoes, 349-356
 pigmentation in the radish, 505-507
 plastid inheritance in *Pelargonium*, 347
 polarised segregation, 344
 polygenic control in potatoes, 345
 polymorphic and monomorphic populations,
 597-614
 polymorphism in *Philenus*, 383-401
 population studies in self-pollinated species,
 181-189
 study of the lectin, 459-469
 populations of *Periplaneta americana*, 147-156
 porphyrias, 340
 psychiatrie der gegenwart, 743
- quantitative genetik, 742
- radiation-induced chromosome aberrations,
 521
 reciprocals and backcrosses, 97-103
- relationships between glutamate dehydro-
 genase and related proteins, 169
 relative growth rates, 527
 replication in *E. coli*, 345
- scrapie in mice, 279-288
 secondary associations, 289-299
 seed and tuber dormancy in potatoes, 489-
 504
 lectins of *Vicia*, 459-469
 selection, frequency-dependent, 201-206
 in cotton, 559-583
 in *D. melanogaster*, 105-124
 multistage, 131-145
 through maternal influence, 509-511
 sensitivity of *Drosophila* to MMS, 711-718
 somatic cells, 259-269
 segregation in potatoes, 168
Sorghum alnum, 543-558
 soziale isolate, 742
 speciation, 346
 studies on Pakistani populations, 147-156
 study of childhood deafness, 170
 of hybrids, 419-434
 of polymorphic situation, 348
 synchronising division of cells of *U. maydis*,
 169
 synthesis and structure of macromolecules,
 739
- t*-alleles in mice, 301-312, 313-325, 327-330
 teaching genetics, 160
 transformation in *S. tuberosum*, 349-356
 translocation affecting morphology in *A.*
 nidulans, 167
 tuberculosis in twins, 342
- unadaptive heterozygotes, 357-367
- variant of *A. nidulans*, 75-95
 variation in *Drosophila rubida*, 331-334
 variations génétiques, 731-733
 viability in self-pollinated species, 181-189
Vicia faba, 271-277
 virus-like syndromes in hybrids, 229-236
- X-ray treatment in potato chimeras, 528