

# VOLUME X

## INDEX OF SUBJECTS AND AUTHORS

*Only main topics are listed, and reference is given to the first page  
of each paper in which they are discussed.*

- Acriflavine, effects on episome and bacterial chromosome transfer in *Escherichia coli* K12, 241
- Adams, M. S., 313
- Aedes aegypti*, comparative genetical study on DDT resistance, 219
- Aegilops speltoides*, homoeologous pairing of chromosomes from *Agropyron elongatum*, 63
- Agropyron elongatum*, homoeologous pairing of chromosomes from, with *Aegilops speltoides* and *Triticum aestivum*, 63
- Anopheles gambiae*, genetic studies on mutation in species A and B, 205
- Arai, T., 241
- Aromatic amino acid synthesis in *Aspergillus nidulans*, 261
- Ascobolus immersus*, simultaneous conversion in linked genes, 121
- Ascomycetes*, differential maturation of ascospores and recombination, 1
- Aspergillus nidulans*
- aromatic amino acid synthesis and para-fluorophenylalanine resistance, 261
  - chromosome instability related to gene suppression, 173
- Aspergillus niger*, genetic analysis by means of parasexual cycle, 45
- Autogamy*, maintenance of heterozygosity after, in *Euplates*, 35
- Bacteriophages, polarized exclusion of T2 in crosses with T4, 13
- Ball, C., 173
- Bishop, J. O., 107
- Canalized phenotype, selection for and against, 21
- Cell number in relation to heterosis in embryonic growth in mouse, 235
- Chloramphenicol, inhibition of respiratory enzyme synthesis by, in *Saccharomyces cerevisiae*, 199
- Chromosome instability and gene suppression in *Aspergillus nidulans*, 173
- Claxton, J. H., 161
- Cleft palate in man in relation to developmental 'noise', 313
- Colicin Ela, sex factor of, in *Salmonella typhimurium*, 323
- Congenital tremor, penetrance of, in chick, 229
- Conversion, simultaneous in linked genes in *Ascobolus immersus*, 121
- Cytoplasmic mutant (SG), heterokaryon studies in *Neurospora crassa*, 185
- Dawson, G. W. P., 127
- Davison, J. R. N., 107
- DDT resistance, a genetical study in adult and larval *Aedes aegypti*, 219
- De Groot, B., 13
- Developmental 'noise' and a congenital malformation in man, 313
- Differential maturation of ascospores and recombination studies, 1
- Diuretic responses, selection for, in mouse, 95
- Divergence in Vetukhiv's experimental populations of *Drosophila pseudoobscura*, 303
- Drosophila*
- genetic divergence in Vetukhiv's experimental populations, 303
  - inversion heterozygosity and selection for wing length, 81
  - relationship between heterochromatization and variegation, 143
  - selection for and against canalized phenotype, 21
- Escherichia coli*
- episome and chromosome transfer, effects of acriflavine, in K12, 241
  - partial deletion map of the galactose operon of K12, 107
- Euplates minuta*, maintenance of heterozygosity of *mt* locus after autogamy, 35

- Finlayson, J. S., 195  
 Frame, R. M., 107
- Galactose operon, partial deletion map of, in *Escherichia coli* K12, 107  
 Genetic analysis by the parasexual cycle in *Aspergillus niger*, 45  
 Genetic variation in diuretic responses in mouse, 95
- Hair follicle development in tabby mice, 161  
 Hartmann-Goldstein, I. J., 143  
 Heterochromatization, relationship between, and variegation in *Drosophila melanogaster*, 143  
 Heterokaryon studies of a cytoplasmic mutant in *Neurospora crassa*, 185  
 Heterosis in relation to cell number in embryonic growth of mouse, 235  
 Homoeologous pairing of chromosomes from *Agropyron elongatum* with *Triticum aestivum* and *Aegilops speltoides*, 63  
 Hudson, D. M., 195  
 Hybrids between pigeons and doves and relationships amongst interaction products, 273
- Inbreeding, effects on litter size in mouse, 73  
 Induced mating technique for *Anopheles gambiae*, 205  
 Interaction antigen in hybrids of pigeons and doves, 273  
 Inversion heterozygosity and selection for wing length in *Drosophila melanogaster*, 81  
 Irwin, M. R., 273
- Jarolmen, H., 289  
 Johnson, R., 63
- Kimber, G., 63, 295  
 Kitagawa, O., 303  
 Krzanowska, H., 235
- LaBar, M. M., 273  
 Lamb, B. C., 1  
 Lawn, A. M., 323  
 Lhoas, P., 45  
 Linkage of a urinary protein component to brown coat colour locus in mouse, 195  
 Linnane, A. W., 199  
 Litter size, effects of inbreeding on, in mouse, 73  
 Luporini, P., 35
- Maintenance of heterozygosity after autogamy in *Euploites*, 35  
 Mason, G. F., 205  
 Maturity, genetic control of, in *Tetrahymena pyriformis*, 319  
 McCarthy, J. C., 73  
 Meynell, G. G., 323  
*Microtus agrestis*, serum esterase variation, 135  
 Mouse  
 cell number in relation to heterosis during embryonic growth, 235  
 effects of inbreeding on litter size, 73  
 hair follicle development in tabby (*Ta*), 161  
 linkage of a urinary protein component to brown coat colour locus, 195  
*Nijmegen waltzer*, a new neurological mutant, 117  
 selection for diuretic responses, 95
- Neurospora crassa*  
 differential maturation of asci, 1  
 heterokaryon studies of a cytoplasmic mutant, 185  
*Neurospora*, unbiased second division segregation, 289  
*Nicotiana*, S gene polymorphism, 251  
*Nijmegen waltzer* (*nv*), a new neurological mutant in mouse, 117  
 Niswander, J. D., 313  
 Nobili, R., 35
- Pandey, K. K., 251  
 Parasexual cycle, genetic analysis in *Aspergillus niger*, 45  
 Paszewska, A., 121  
 Penetrance of congenital tremor in White Leghorn chicks, 229  
 Polarized exclusion of T2 in crosses with T4, 13  
 Polymorphism of S gene in *Nicotiana* species and genotypes, 251  
 Potter, M., 195  
 Prevosti, A., 81  
 Puhalla, J. E., 185
- Recombination  
 effect on differential maturation of asci, 1  
 exclusion of T2 in crosses with T4, 13  
 Resistance to para-fluorophenylalanine in *Aspergillus nidulans*, 261  
 Reversion of *tryA* in *Salmonella typhimurium*, 127  
 Riyasaty, S., 127  
 Russell, M. A., 135

- Saccharomyces cerevisiae*, inhibition of respiratory enzyme synthesis by chloramphenicol, 199
- Salmonella typhimurium*  
frequent *tryA* auxotrophs in, 127  
sex factor of colicin E1a, 323
- Saunders, G., 199
- Segregation, unbiased second-division, in *Neurospora* species, 289
- Selection  
for and against canalized phenotype in *Drosophila*, 21  
for diuretic responses in mouse, 95  
for wing length, and inversion heterozygosity in *Drosophila subobscura*, 81
- Self-incompatibility alleles in *Nicotiana*, 251
- Semeonoff, R., 135
- Serum esterase, variation in *Microtus agrestis*, 135
- Simon, Ellen M., 319
- Sinha, U., 261
- Sittmann, K., 229
- Sordaria fimicola*, differential maturation of asci, 1
- Spickett, S. G., 95
- Srb, A. M., 185, 289
- Stewart, J., 95
- Suppression, chromosome instability and, in *Aspergillus nidulans*, 173
- Tetrahymena pyriformis*, genetic control of maturity, 319
- Translocated alien chromosome segment to wheat chromosome, 295
- Triticum aestivum*  
homoeologous pairing of chromosomes from *Agropyron elongatum*, 63
- recognition of alien chromosome segment, 295
- Urinary protein component linked to brown coat colour in mouse, 195
- van Abeelen, J. H. F., 117
- van der Kroon, P. H. W., 117
- Variegation, relationship with heterochromatization, in *Drosophila melanogaster*, 143
- Vetukhiv's experimental population of *Drosophila pseudoobscura*, genetic divergence in, 303
- Watanabe, T., 241
- Wheat, homoeologous pairing of chromosomes in complex hybrids, 63
- Wilkie, D., 199
- Wood, R. J., 219
- Young, S. S. Y., 21