

VOLUME XXXVI

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

- activity of glucose-6-phosphate dehydrogenase, 91
- A-chromosomes of maize, 111
- alcohol dehydrogenase allozymes, 11
- alleles, combination of superior, 277
- allozymic polymorphisms, 11, 265
- Ames test, 249
- ω -amino acids, 167
- γ -amino-*n*-butyrate transaminase, 167
- antibody diversity, 181
- antisuppressors in *Podospora*, 289
- artificial selection and population structure, 117
- Arst, H. N., 167
- Aspergillus nidulans*, GABA transaminase gene, 167
- Atlantic salmon, protein variation and duplicate loci, 147
- Auerbach, C., 41
- Ayala, F. J., 57
- Bailey, C. R., 167
- barley, isozymic structural gene locations, 311
- B-A translocations in maize, 111
- B-chromosomes of maize, 111
- biennial plant populations, 17
- bifunctional gene in carotene biosynthesis, 299
- biotypes in *Salmonella typhimurium*, 327
- Birchler, J. A., 111
- body colour of flour beetles, 1
- bristle number in *Drosophila*, 117
- Britten and Davidson model, 167
- brown locus and G-6-PD locus of mouse, 91
- Burnet, B., 235
- Campbell, R. B., 29
- Carfagna, M., 265
- β -carotene biosynthesis in *Phycomyces*, 299
- Carothers, A. D., 199
- Cerdá-Olmedo, E., 299
- Chicago-black mutant in flour beetle, 1
- Chromosome
 - addition lines in wheat-barley hybrids, 311
 - mobilising ability of plasmid R68.45, 99
 - pairing at metaphase in man, 219
- Cloninger, C. R., 133
- cold sensitive mutants in *Podospora*, 289
- Coll, M. D., 219
- colonial plants, differentiation in, 17
- combining superior alleles, 277
- Comstock, R. E., 277
- Condamine, H., 211
- conjugation in bacteria and nalidixic acid, 69
- coordination of mating type expression in *Paramecium*, 81
- Cross, T. F., 147
- Cuadras, C. M., 219
- density of populations, 1
- distribution of human chromosomes, 219
- Drosophila melanogaster*
 - abdominal bristle number, 117
 - adh*, 11
 - ethanol tolerance and environment, 11
 - forked duplication, 41
 - locomotor activity and *yellow*, 235
 - male competitive mating success, 235
 - mosaicism for behaviour at *yellow*, 235
 - PGM polymorphism, adaptive value, 265
 - position effect variegation, 41
 - suppressor of forked, 41
 - transposable element, 41
 - yellow* and behaviour, 235
- Drosophila pseudoobscura*
 - 'overcompensation' at *Mdh-2*, 57
- duplicate loci in Atlantic salmon, 147
- duplication in the plasmid R68.45, 99
- effective population size, 1
- Egozcue, J., 219
- endosperm of maize and chromosome complement, 111
- enhanced chromosomes mobilizing (E.C.M.) plasmids, 99
- enzyme polymorphism, maintenance of, 265
- Erickson, R. P., 91
- erythrocytic G-6-P.D. of mouse, 91
- erythrocytic NADP of mouse, 91
- Escherichia coli*
 - chromosome transfer, 69, 99
 - error prone repair, 249
 - h.f.r. transfer, 69
 - inhibition of chromosome transfer, 69

- N-group plasmids, 249
 R68.45, 99
 thymineless death and *recA*, 249
 U.V. sensitivity, 249
 ethanol tolerance in *Drosophila*, 11
- flour beetle, 1
 frequency dependent selection, 57
 Fucci, L., 265
- GABA transaminase gene, 167
 Gaillard, J., 211
 Gaudio, L., 265
 gene duplication in Atlantic salmon, 147
 gene expression in *Paramecium*, 81
 genetic isolation, 17
 genetic variation in Atlantic salmon, 147
 genetics of erythrocytic NADP and G6PD, 91
 glucose-6-phosphate dehydrogenase of mouse, 91
 Guenet, J.-L., 211
 gyrase of *Escherichia*, 69
- Harper, K., 91
 Hart, G. E., 311
 Hart, J., 69
 heterozygous advantage, 57
 Hickey, D. A., 11
 h.f.r. chromosome transfer, 69
 Ho, Y. T., 277
 Holloway, B. W., 99
 Human chromosomes, metaphase distribution, 219
- immunoglobulin genes and linkage disequilibrium, 181
 insertional inactivation of the transposable element *Dp-f+*, 41
 Islam, A. K. M. R., 311
 isozyme frequencies, 17
 isozymes as chromosomal markers, 311
- Jacob, F., 211
 Johnson, S., 69
- Le Coze, D., 289
 lemmings, population dynamics of, 199
 linkage disequilibrium, 29, 181
 Lloyd, R. G., 69
 lycopene cyclization, 299
- maize, B-A translocations, 111
 small kernel, 111
 malate dehydrogenase, 57
 mating type locus in *Paramecium*, 81
 May, S. G., 327
- McLean, M. D., 11
 merozygote fate in *Escherichia* h.f.r. matings, 75
 metaphase plate and human chromosome distribution, 219
 migration and population size, 17, 29
 mobilization of bacterial chromosome, 99
 mosaics, 41, 111
 mouse, brown locus and G-6-PD, 91
 chromosome IV, 91
 chromosome XVII, 211
 glucose-6-phosphate dehydrogenase, 91
 taillessness, 211
 t-haplotypes, 211
 multigenes and linkage disequilibrium, 181
 Murillo, F. J., 299
 Myohara, K., 81
- nalidixic acid, 69
 Nicholas, F. W., 117
 nonautonomy in maize, 111
 nondisjunction of B chromosomes in maize, 111
- offspring numbers in flour beetle, 1
 Ohta, T., 181
 Old, D. C., 327
 overcompensation, 57
- Paramecium caudatum*, timing of gene expression, 81
 path analysis of intrinsic and extrinsic relations, 133
 pattern mosaicism for behaviour, 235
 Penfold, H. A., 167
 P.G.M. polymorphism in *Drosophila*, 265
Phycomyces blakesleeanus, carotene biosynthesis, 299
- Picard-Bennoun, M., 289
 Pinney, R. J., 249
 plasmid, curing by thymine starvation, 249
 pKM101, 249
 N-group, 249
 RN3, 249
 R68.45 structure, 99
 with chromosome mobilizing ability, 99
Podospora anserina, cold-sensitive mutants, 289
- polymorphic equilibria, 29, 57
 polymorphism in Atlantic salmon, 147
 population distributions, 17
 population dynamics in lemmings, 199
 population size of flour beetles, 1
 population structure and artificial selection, 117
 position effect variegation of *Dp-f+*, 41
 protein variation in Atlantic salmon, 147
 Pühler, A., 99

- R68.45 plasmid, structure, 99
random drift in biennials, 17
Rathie, K. A., 117
recombination and population size, 29
repeated genes, 181
ribosomal mutants in *Podospora*, 289
Riess, G., 99
Rubino, R., 265
- Salmonella typhimurium*, biotypes and meso-tartrate resistance, 327
Salmo salar, *L.*, protein variation and duplicate loci, 147
Scrophulariaceae, 17
selection, artificial and population structure, 117
selection-migration balance, 29
sex-determination in lemmings, 199
Shepherd, K. W., 311
Shukla, P. T., 41
site specificity of transposable element
 Dp-f+, 41
small-kernel phenotypes of maize, 111
stepping-stone model, 17
supernumerary chromosomes of maize, 111
 tandem duplication in plasmid R68.45, 99
 meso-tartrate resistance in *Salmonella*, 327
 temporal coordination of expression of mating type in *Paramecium*, 81
 temporal genetic isolation, 17
 t-haplotypes of mouse, 211
 timing of gene expression in *Paramecium*, 81
Torres-martínez, S., 299
Tošić, M., 57
translocations in maize, 111
transposable element in *Drosophila*, 41
Tribe, M. J., 249
Triboleum castaneum, 1
Triticeae, aneuploidy and evolution, 311
 variance and diploid males, 1
 Verbascum virgatum, 17
- Wade, M. J., 1
Ward, R. D., 147
Wells, H., 17
Wells, P. H., 17
Wheat-barley chromosome addition lines, 311
Wilson, R., 235
wood lemmings, 199