

## VOLUME XIV

## 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*

- Armstrong, B. L., 329
- Ascobolus immersus*, intragenic recombination, 33
- Aspergillus amstelodami*, correlated meiotic and mitotic maps, 185
- Aspergillus nidulans*, genetics and behaviour of methionine suppressors in heterokaryons and diploids, 275
- hypodiploid and hypohaploid nuclei, 127
- spontaneous intrachromosomal changes at mitosis, 63
- Ayala, Francisco J., 95
- Ayling, P. D., 275
- Bacteriophage,  $\lambda$  and  $\phi 80$ , genetics and evidence for restriction targets in DNA, 151
- P 22, cotransduction of *mot C* and *H1* in *Salmonella*, 45
- T4D, effect of homozygous deletion on heterozygote formation, 13
- Beale, G. H., 341
- Bevan, E. A., 71
- Bhaskaran, K., 9
- Blood glucose levels, inherited differences in Mouse, 1
- Cannings, C., 167
- Carlson, Peter S., 337
- Cattanach, B. M., 223
- Charlesworth, Deborah, 1
- Chlamydomonas eugametos*, induction of gene mutation and chromosome aberration in, 121
- Chlamydomonas reinhardtii*, complementation tests of closely linked flagellar genes, 343
- Chlosyne lacinia*, polymorphic larval colour forms in, 333
- Chung, Young S., 111
- Cock, A. G., 237
- Colicin B and F-like R factors, super-infection immunity and repressor susceptibility, 315
- Complementation of closely linked flagellar genes of *Chlamydomonas reinhardtii*, 343
- Controlling elements on X-chromosome in Mouse, 223
- Cooke, Marylyn, 79, 309
- Cotransduction by P22 of *motC* and *H1* in *Salmonella* species, 45
- Cytoplasmic determinants, segregation of killer (k) and neutral (n) in *Saccharomyces cerevisiae*, 71
- Dacus olea* amount of variation at two esterase loci in Greek population, 249
- Day, A. W., 195
- Donch, John, 111, 159
- Dosage compensation, a chromosomal basis in *Drosophila*, 137
- Dove, William F., 151
- Drosophila*, action of gene *prune* (pn), 53
- chromosomal basis of dosage compensation, 137
- genetic polymorphism and interspecific competitive ability in, 95
- Enomoto, Masatoshi, 45, 89
- Erythromycin resistance in *Paramecium aurelia*, 341
- Escherichia coli*, chromosomal transfer mediated by derepressed R-factors, 79
- derepressed F-like R-factors and Hfr transfer, 309
- effect of *recA* gene on cell division and polysaccharide production in *lon* strain, 159
- inhibition of DNA synthesis and u.v. sensitive Bs strains, 111
- a method of selecting streptomycin sensitive R-factors, 323
- phenotypic suppression by streptomycin analogues, 259
- recA uvrB* double mutant and bacteriophage, 291
- restriction targets in  $\lambda$  and  $\phi 80$  bacteriophages, 151

- superinfection immunity and repressor sensitivity, 315
- Esterase loci, amount of variation at two, in Greek population of *Dacus oleae*, 249
- Eye colour *prune* (pn) in *Drosophila melanogaster* 53
- Falk, Raphael, 53
- Ferns, production of auxotrophic mutants, 337
- Finlayson, J. S., 329
- F-like R factors, derepressed, and effect on Hfr transfer in *E. coli*, 309
- Fowl, genetic studies on growth and form, 237
- Franklin, Naomi C., 151
- Frydman, Anna, 315
- Gene action of *prune* (pn) in *D. melanogaster*, 53
- Glucose levels inherited differences in blood, in Mouse, 1
- Gorodenski, Stanley A., 333
- Gowans, C. S., 121
- Green, Michael H. L., 111, 159
- Greenberg, Joseph, 111, 159
- Harwood, J. H., 259, 323
- Hertman, I. M., 291
- Heteroduplex formation in Bacteriophage T4D, 13
- Hudson, D. M., 329
- Hypodiploid and hypohaploid nuclei in *Aspergillus nidulans*, 127
- Interspecific competitive ability and genetic polymorphism in *Drosophila*, 95
- Intragenic recombination, mutant and cross specificity in *Ascobolus immersus*, 33
- Isocitrate dehydrogenase variation within C3H inbred strain, 93
- Iyer, S. S., 9
- Janjigian, J., 323
- Jones, J. K., 195
- Killer (k) in *Saccharomyces cerevisiae*, 71
- Krimbas, C. B., 249
- Kvelland, Ingerid, 13
- Lakhotia, S. C., 137
- Lethal factor in strain of *Vibrio El Tor*, 9
- Lewis, L. A., 185
- Lifschytz, Eliezer, 53
- Loutit, J. S., 103
- Mating system, effect of Nitrosoguanidine on, in *Pseudomonas aeruginosa*, 103.
- Matrix methods to study multiallelic genetic systems, 167
- McBride, A. C., 121
- McLaren, Anne, 93
- Meiotic and mitotic maps, correlated in *Aspergillus amstelodami*, 185
- Meredith, R., 163
- Methionine suppressors, genetics and behaviour in heterokaryons of *Aspergillus nidulans*, 275
- Meynell, Elinor, 79, 309, 315
- Mitotic nonconformity in *Aspergillus nidulans*, 63, 127
- Mouse, controlling elements on X-chromosome, 223
- cytoplasmic isocitrate dehydrogenase variation in C3H inbred strain, 93
- location of *mup-a* in linkage group VIII, 329
- muted*, a new mutant affecting coat colour and otoliths, 163
- small inherited differences in blood glucose levels, 1
- Motility, cotransduction with serotype genes in *Salmonella*, 45
- Mukherjee, A. S., 137
- Multiallelic genetic systems by matrix methods, 167
- Mup-a* locus on linkage group VIII in Mouse, 329
- Mutation, by phenylalanine analogue in *Chlamydomonas*, 121
- Muted*, a new mutant affecting coat colour and otoliths in Mouse, 163
- Neutral (n) in *Saccharomyces cerevisiae*, 71
- Nga, B. H., 63, 127
- Nitrosoguanidine, effect on donor in mating of *Pseudomonas aeruginosa*, 103
- Paramecium aurelia*, erythromycin resistance in, 341
- Parasexual and sexual analysis of *Ustilago violacea*, 195
- Paszewski, A., 33
- Perez, J. N., 223
- Phenotypic suppression by streptomycin analogues, in *E. coli*, 259
- Phenylalanine analogue (APBA), effect on gene mutation and chromosome aberration in *Chlamydomonas*, 121
- Pollard, C. E., 223
- Polymorphic larval colour forms in *Chlosyne lacinia*, 333
- Polymorphism and interspecific competitive ability in *Drosophila*, 95

- Prazmo, W., 33  
*Pseudomonas aeruginosa*, mating system, effect of nitrosoguanidine on donor, 103
- RecA* gene suppresses u.v. induced filamentation in *lon* strain of *E. coli*, 159
- Recombination, deficient *recA* and *uvrB* double mutant in *E. coli*, 291 heteroduplexes and terminal redundancies in bacteriophage T4D, 13 mutant and cross specificity on pattern of intragenic, 33
- Restriction targets in  $\lambda$  and  $\phi 80$  bacteriophages, 151
- R-factors mediating chromosomal transfer in F- *E. coli*, 79
- Roper, J. A., 62, 127
- Saccharomyces cerevisiae*, somatic segregation of killer (k) and neutral (n) cytoplasmic determinants, 71
- Salmonella*, frequency of cotransduction of *motC* and *H1* by P22, 45 isolating *mot-* paralysed mutants from non flagellated cells, 89
- Selection, of auxotrophic mutants in Fern, 337 complexity of changes in skeletal proportions after, in Fowl, 237 of paralysed from non-flagellate cells of *Salmonella*, 89 of streptomycin sensitive mutants of R-factors in *E. coli*, 323
- Sexual and parasexual analysis of *Ustilago violacea*, 195
- Skeletal proportions, complex changes produced by selection in Fowl, 237
- Smith, D. H., 259, 323
- Somers, J. M., 71
- Superinfection immunity between de-repressed F-like R-factors and colicin B factors in *E. coli*, 315
- Suppression, methionine, in *Aspergillus nidulans*, 275
- Starling, David, 343
- Streptomycin analogues, phenotypic suppression in *E. coli*, 259
- Tait, Andrew, 93
- Terminal redundancy in bacteriophage T4D, 13
- Translocation instability at mitosis in *Aspergillus nidulans*, 63
- Ultraviolet sensitivity, effect of DNA synthesis inhibition on Bs strains of *E. coli*, 111 *uvrB* and *recA* double mutant in *E. coli*, 291
- Ustilago violacea*, sexual and parasexual analysis of, 195
- Vibrio El Tor*, a lethal factor in, 9
- X-chromosome control elements and their influence on X-linked genes in Mouse, 223
- Yamaguchi, Shigeru, 45
- Zouros, E., 249