

VOLUME XXXI

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

- adrenal abnormalities, in mice, 157
- alcohol dehydrogenase, 97, 107
- allotype specificity, 209, 265
- allyl alcohol selection, 107
- α_2 -macroglobulin, 209, 265
- amoeba, nuclear cycle, 1
- anal glands, of mice, 157
- anaphase bridges, 187
- Andrews, Kathryn M., 177
- asebia* locus, in mice, 53
- Aspergillus nidulans*
 - duplication strains, 29
 - meiotic recombination, 29
 - parasexual cycle, 131
- Aspergillus niger*
 - parasexual cycle, 131
- Avery, P. J., 239
- bacteriophage pf16, 93
- balancing selection, 227
- Batty, Jennifer, 303
- Béládi, I., 197
- β -lipoprotein, 209
- Bijlsma, R., 227
- blastoderm, of *Drosophila*, 273
- body weight, selection, 287
- Broda, P., 167
- bromodeoxyuridine suicide, 1
- Carmi, Pheya, 215
- Cheng, David S. K., 107
- chiasma, 47
- chromosome breakage, 187
- clitoral glands, of mice, 157
- clonality, between different chromosomes, 13
- collagen, structure in mice, 53
- Collins, J. F., 157
- colour blindness, natural selection, 203
- Coprinus*, meiosis, 215
- coumarin, metabolism in mice, 177
- cyclic AMP, in development, 53
- cyclic GMP, in development, 53
- cyclical selection, 67
- cytochrome P450 isozymes, 177
- cytodifferentiation, in mice, 157
- cytoplasmic inheritance, 131
- Dee, Jennifer, 85
- degeneration, of hair follicles, 145
- Delhi frog, 103
- dermis, development in mice, 53
- determination, in *Drosophila*, 273
- diploids, partial, 29
- disequilibrium, linkage, 227, 239
- disequilibrium, epistatic, 227, 239
- DNA, intercalation, 197
- DNA, premeiotic replication, 215
- dominance, effect on polymorphism, 67
- Drosophila*
 - alcohol dehydrogenase, 107
 - aldehyde oxidase, 107
 - appearance of recessive genes, 255
 - blastoderm, 273
 - determination, 273
 - gynandromorph mosaics, 273
 - imaginal progenitor cells, 273
 - male recombination, 187
 - recombination, 29
 - rosy* locus, 107
 - somatic recombination, 273
- Drosophila melanogaster*
 - alcohol dehydrogenase, 97
 - allele interactions, 227
 - anaphase bridges, 187
 - balancing selection, 227
 - chromosomal abnormalities, 187
 - cytoplasmic effects, 187
 - G6PD polymorphism, 227
 - inversion frequencies, 97
 - male recombination, 187
 - 6PGD polymorphism, 227
- Drosophila persimilis*
 - chromosome polymorphisms, 97
 - phosphoglucomutase isoalleles, 97
- Drosophila pseudoobscura*
 - polymorphisms, 97
- Dunn, N. W., 93
- duplication strains, 29
- effective pairing hypothesis, 29
- epistasis, 227
- Escherichia coli*
 - lon* mutations, 197

- mating aggregates, 167
 multiple parental matings, 167
 plasmid curing, 197
 R-factor tetracycline resistance, 75
7-ethoxycoumarine, metabolism in mice, 177
 exconjugant complexity in *E. coli*, 167
- Falconer, D. S., 287
 fitness, effects of allele interactions, 227
 Freeling, Michael, 107
- Gauld, I. K., 287
 gene arrangements, 13
 gene frequency changes, 103
 gene number variations, 13
 genetic drift, 103
 Gionfriddo, Maria A., 97
 glucocorticoids, in development, 53
 glycoprotein, serum antigen, 209
 Grewal, Manjit Singh, 103
- hair follicles, of mice, 145
 haploid populations, polymorphisms, 67
 Hardy, Margaret H., 53, 145, 157
 Harkiss, G. D., 303
 Haugli, Finn, 1
 Haugli, Kari, 1
 Heale, James B., 131
 heat sensitivity, in *Physarum*, 1
 Hoekstra, Rolf F., 67
 Holland, I. B., 197
 hydroxyurea, induction of meiosis, 215
- Iannelli, Domenico, 209, 265
 imaginal progenitor cells, 273
 imipramine, 197
 immunogenetics, of cattle, 265
 immunogenetics, of sheep, 209
 immunoglobulins, gene arrangements, 13
 infinite population assumptions, 239
 interference, between tetrads, 47
 interference, within tetrads, 47
- Jansen, G. J. O., 47
 Josefowicz, Wendy J., 53, 145, 157
- King, David G., 273
Klebsiella, R-factors, 75
 Koltin, Y., 215
- low-density lipoprotein allotypes, 265
Lilium, meiosis, 215
 Lush, I. E., 177
 lysosomes, in mice, 157
- maize
 alcohol dehydrogenase mutants, 107
- allyl alcohol selection, 107
 mutagenesis, 107
 pollen selection, 107
 Malhotra, K. C., 203
 Masina, Piero, 265
 mating aggregates, in *E. coli*, 167
 meibomian glands, of mice, 157
 meiosis
 in *Coprinus*, 215
 in *Lilium*, 215
 in *Schizophyllum*, 215
 meiotic recombination, 29
 meiotic synchrony induction, 215
 metabolic rates, of mice, 303
 methylene blue, in plasmid curing, 197
 4-methylumbelliferone, 177
 mitochondria, abnormalities in mice, 157
 mitosis, DNA replication, 215
 Molnár, J., 197
 mouse
 adrenal abnormalities, 157
 albino, 53
 anal glands, 157
 asebia locus, 53, 145, 157
 body weight selection, 287
 chinchilla locus, 53
 clitoral glands, 157
 collagen structure, 53
 coumarine metabolism, 177
 cytochrome P450 isozymes, 177
 dermis, 53
 elastin structure, 53
 epidermis, 53
 hair follicles, 147
 hairless locus, 53
 meibomian gland, 157
 membranes, 157
 metabolic rates, 303
 4-methyl umbelliferone excretion, 177
 mitochondria, 157
 organ cell number, 287
 organ cell size, 287
 ovarian abnormalities, 157
 preputial gland, 157
 sebaceous gland, 53, 145, 157
 thyroxine levels, 303
 umbelliferone excretion, 177
 multigene families, 13
 multi-niche selection, 67
 multiple locus systems, 227
Mus musculus, see under Mouse
- natural selection, for colour blindness, 203
 netropsin suicide, 1
 nuclear cycle, in amoebae, 1
- Ohta, Tomoko, 13

- organ cell number, 287
organ cell size, 287
ovarian abnormalities, in mice, 157
overdominance, 239
Ovis aries, immunogenetics, 157
- parasexual cycle, of *Verticillium*, 131
Physarum polycephalum
heat sensitivity, 1
mating type locus, 85
mutagenesis, 1
rac locus, 85
plasma thyroxine levels, 303
plasmid (see also under R-factor)
curing by imipramine, 197
pND3, 93
TOL, 93
transductional shortening, 93
pole cells, of *Drosophila*, 273
pollen selection, 107
polymorphism
cyclical selection, 67
dominance effects, 67
haploid populations, 67
multi-niche systems, 67
subdivided populations, 67
population size effects, 239
preputial glands, of mice, 157
Pseudomonas putida
bacteriophage pf16, 93
plasmids, 93
- R-factor
R6, 75
R46, 75
R57, 75
R91, 93
R100, 75
R199, 75
RP1, 75
tetracycline resistance, 75
Rana cyanophilyctis
- genetic drift, 103
skeletal polymorphism, 103
recombination, in fungi, 29
recombination, in partial diploids, 29
Reeve, E. C. R., 75
ribosomal RNA genes, 13
Roberts, R. C., 287
Robertson, Alan, 255
- sebaceous glands, of mice, 53, 145, 157
serum antigen immunogenetics, 209, 265
skin development, in mice, 57
somatic recombination, 273
Stamberg, Judith, 215
Stewart, A. D., 303
Stum, P., 47
Sudbery, Peter, 1
- tetracycline resistance, 75
tetrad interference, 47
tetraparental matings, in *E. coli*, 167
thyroxine levels, in mice, 303
transfer RNA genes, 13
transposon Tn 10, 75
Typas, Milton A., 131
- umbelliferone excretion, by mice, 177
unequal crossing over, 13
- Van de Vate, C., 29, 47
Verticillium spp.
cytoplasmic inheritance, 131
hyl locus segregation, 131
parasexual cycle, 131
Vigue, Charles L., 97
- White, G. P., 93
Wyman, Robert J., 273
- Yannopoulos, George, 187
Yeast, recombination, 29