

## Subject Index

Entries followed by numbers in brackets refer to abstracts of papers given at a meeting of the Genetical Society.

- Acridine orange (AO) binding, use of, 79–83  
*Adh* of *Drosophila melanogaster*, 23–29  
*Adh* selection in *Drosophila buzzatii*, 47–51  
allozyme heterozygosity in jack pines, 145–148  
amino acid synthetic enzymes, 126(3)  
analysis, cytological, of a spontaneous translocation, 263–266  
analysis of a non-pathogenic mutant of *Xanthomonas campestris* 283(31)  
analysis of chloroplast DNA of *Aegilops*, 335–339
- barriers to gene exchange, 357–376  
bovine leukemia provirus, 279(17)
- carbonic anhydrase, expression of, 282(26)  
chromosomal polymorphism, sexual selection on, in *Drosophila subobscura*, 161–169  
chromosomes of bovine sperm, 135(31)  
chromosomes of *E. coli*, 287(43), 288(47)  
chromosome repair, theory of, 37–46  
chromosome structure of *Rumex acetosa*, 247–254  
clines at X-linked or haplodiploid loci, 209–219  
cobalt resistance in *Aspergillus nidulans*, 280(21)  
colonising ability of the flour beetle, 403–406  
competitive interactions in spring barley, 331–334  
cone pigment polymorphism in primates, 135(32)  
conjugation system of *Staphylococcus aureus*, 286(41)  
consumption of phenylthiourea by different mouse strains, 319–323  
control of DNA synthesis, 125(5)  
cross prediction methods in breeding potatoes, 395–401
- density-dependence, effects of, on gene flow, 415–426  
detection of single copy DNA sequences, 280(19)  
developmental stability in mice, 381–388  
differentiation among seed of *Fagus sylvatica*, 255–262  
differentiation, genetics of, in threespine stickleback, 199–208  
disruptive selection in *Drosophila*, 407–413  
DNA repair enzymes, 37–46
- early-generation selection in barley breeding, 331–334  
egg production, factors affecting, in *Drosophila melanogaster*, 305–315  
electrophoretically detectable protein variation, 67–74  
enzyme loci in *Littorina saxatilis*, 233–241  
eusociality, origin of, 181–187  
evolutionary stability of cyclic parthenogenesis, 15–22
- fertility, control of, in a fungus, 85–91  
fitness differences in *Drosophila melanogaster*, 289–304  
fluctuating asymmetry in mice, 381–388
- gene arrangements in natural populations, 1–4  
gene conversion in fungi, 134(29)  
gene exchange between hybridising populations, 357–376  
gene frequency clines, 209–219  
genes, various studies of, 137(36)(39), 138(41)(42)(43)(44), 141(47), 286(38)  
gene transfer and irradiated pollen, 37–46  
genetic analysis of grain weight, 93–99  
genetic basis of wing dimorphism in sand cricket, 221–231  
genetic control of *E. coli* genome instability, 128(10)  
genetic determination of egg production in *Drosophila melanogaster*, 305–315  
genetic diversity in cytoplasm of *Aegilops* spp, 335–339  
genetic factors and immunity system, 53–58  
genetic organisation of yeast transposon, Ty., 277(10)  
genetic regulation using transgenic mice, 285(36)  
genetic structure of beech seed, 255–262  
genetic structure of *Daphnia* populations, 5–14  
genetic studies in *Aspergillus nidulans*, 129(16), 130(17)(18), 131(19)(20)(21), 132(22)(23), 133(25)(26)(27), 136(34)(35), 284(32)  
genetic studies in *Drosophila* spp, 274(1)(2)(3), 275(4)(5), 277(11), 278(14), 284(33)(34)(35)  
genetic studies, various, 280(20), 281(22), 283(28)(29)  
genetics education, 280(18)  
genetic variability in tick populations, 113–117  
genetic variance and linkage, 341–344  
genetic variation and the ability to colonise new niches, 403–406  
genetic variation in subdivided populations, 189–198  
genotypic changes at *Adh* locus and fitness in *Drosophila*, 289–304  
genotypic diversity, effect of, on larval competition in *Drosophila*, 31–36  
genotypic variability of *Daphnia pulex*, 15–22  
glutamine synthetase gene in Chinese hamster, 282(25)  
glycolysis-pressure of GAPDH in human tissues, 281(24)  
grain weight in wheat, genetic analysis of, 93–99  
growth rate and heterozygosity in plaice, 171–180  
gynodioecy in *Thymus vulgaris*, 325–330
- haplodiploid loci, gene frequency clines at, 209–219  
heterochromatic regions of mountain grasshopper, 79–83  
heterozygosity and biomass in pines, 145–148  
heterozygosity in plaice, 171–180
- inheritance of immunity to *Nematospiroides* in mice, 53–58  
invariant tick populations, 113–117
- keel petal colour in *Lotus corniculatus*, 101–112
- lethal gene equivalents in man, 377–380  
lignin degradation in *Phanerochaete*, 140(46)  
linkage, computer programs for students, 281(23)  
linkage disequilibrium in *Drosophila nasuta*, 1–4  
linkage effects of, on additive genetic variance, 341–344  
linkage effects of, on gene flow, 415–426
- maintaining female *Thymus* plants among hermaphrodites, 325–330  
male *Drosophila* hybrids, sterility in, 243–246  
male fertility and larval competition in *Drosophila*, 31–36  
mathematical models for estimating lethal genes, 377–380  
mating ability in *Drosophila ananassae*, 75–78  
mating scheme for analysing tetrasomic inheritance, 315–317  
mating type genes in fungi, 134(28)  
metabolism and *Adh* allozymes, 23–29  
mitochondrial DNA's in *Coprinus* 127(2), 128(13)  
mitotic recombination, analysis of, 141(52)  
molecular analysis in *Sordaria brevicollis*, 132(24)  
molecular biology of *Penicillium*, 141(51)  
molecular genetics of pyrimidine metabolism, 138(40)

- molecular mapping of mouse chromosomes, 286(40)  
 molecular studies in *Brassica campestris*, 127(6)
- nitrate assimilation in yeast, 129(15)
- oil polymorphisms in *Thymus vulgaris*, 59-66  
 origin of eusociality, 181-187
- palindrome inviability, 287(42)  
 phenylthiourea, consumption of, by mouse strains, 319-323  
 polymorphic enzyme loci, genetic analysis of, 233-241  
 polymorphism in *Daphnia pulex*, 15-22  
 polymorphism in *Drosophila willistonii*, 149-159  
 polymorphisms, correlation with environment, 59-66  
 polymorphism segregation analysis in *Phanerochaete*, 40(50)  
 population size in *Drosophila willistonii*, in Brazil, 149-159  
 protein synthesis studies, 125(1)(2)  
 protein variation in populations of Lone Star tick, 67-74
- recombination studies and detection of polarity, 135(30)  
 reproduction, variation in mode of, in *Daphnia pulex*, 345-355  
 ribosomal mutation in *Aspergillus nidulans*, 127(8)(12), 129(14)  
 ribosomal proteins in *Podospora*, 137(37)
- secondary sexual incompatibility in a fungus, 85-91  
 seed germination, effects of competitive interaction on, in  
 barley, 331-334  
 seed production and keel petal colour in *Lotus corniculatus*,  
 101-112
- seed production by female and hermaphrodite plants of *Thymus  
 vulgaris*, 325-330  
 selection at *Adh-1* locus of *Drosophila buzzatii*, 47-51  
 sexual behaviour in *Drosophila ananassae*, 75-78  
 sexual selection in *Drosophila*, 161-169  
 sperm chromosomes, analysis of, 126(4)  
 spontaneous translocation, cytological analysis of, 263-266  
 sterility in *Drosophila* hybrids, 243-246  
 subdivided populations, genetic variation in, 189-198  
 sublethally irradiated pollen and gene transfer, 37-46
- temporal changes in genetic structure, 5-14  
 tetrasomic inheritance, analysis of, 315-317  
 transmission of B chromosomes in *Secale*, 389-394  
 transposable element in *Antirrhinum majus*, 276(7)(8)(9)  
 transposition in *Drosophila*, 277(11), 278(14), 279(16)  
 transposition in plants, 276(9), 278(13)  
 transposition of repeated sequences in *Triticum*, 276(9)  
 transposon-like element in *E. coli*, 282(27)
- univariate cross prediction in a clonally reproduced crop, 395-  
 401
- variation in mode of reproduction in *Daphnia pulex*, 345-355  
 variation in Y-chromosome structure, 247-254  
 vulval cell development in *Caenorhabditis elegans*, 285(37)
- wing dimorphism in a sand cricket, 221-231
- yeast karyotypes, 283(30)