INDEX OF SUBJECTS

a—amiphase gene from Ae ventricosa, 431—435	gene activity in the Adh region in Drosophila, 103-112
agronomic characters of <i>Hordeum</i> , variation in, 17-23	conversion, 454 expression in S. cerevisiae, 445
alcohol dehydrogenase and adaptive differences in <i>Drosophila</i> , 215-225	suppression, modification of, in <i>Drosoplila</i> , 203-213
analysis of genetic parameters, 243-253 asperin, effects of, on mitochondrial	transfer by irradiated pollen, 113-119 genetic analysis in herring, 121-131
mutagens, 454-455 assortative mating and population genetic	composition of Syrian and Chinese ham- sters, 141-144
theory, 43-61	parameters, analysis and estimation of, 243-253
B-chromosomes in Rattus fuscipes, 355-362, 363-372	variation in Danaus plexippus, 1-7 genetics, (bk. rev.), 309-310
breeding systems in fungi, 35-41	ecological, of speckled wood butterfly, 179– 188
capsid proteins in killer yeast, 457	theory and problems, (bk. rev.), 311
cell cycle control in fisson yeast, 448 chiasmata and crossing over in rye, 265-271	genotype—environmental interactions in oats, 171-178
chromosome addition lines of wheat-barley	investigations of, 403–414
addition lines, 425-429 conference (bk. rev.), 313	gynodioecious breeding system, 77-93 hybrid dysgenesis in <i>Drosoplila</i> , 189-202
separation by flow sorting, 452–453	heterozygosity and breeding systems in fungi,
cis-trans effects, 145-147	35–41
competitive interactions in <i>Drosophila</i> , 255–264	grade of, in 2 species of hamster, 141-144 hygromycin resistance in A. nidulans, 451-452
computer model to simulate epistasis, 373-382	inbreeding and behaviour, 285-296
continuous variation, contribution of pleiotropy to, 95–102	interchromsomal interactions in <i>Drosophila</i> , 403-414
crossing over frequency in rye, 265-271 cyclical parthenogenesis, 307-308	intraspecific variation in nuclear DNA content, 235-242
density and dispersal in a land snail, 391-401	irridiated pollen and gene transfer in Nicotiana, 113-119
development of locomotor activity, 63-75	cross in barley, 347–353
dominance relations among melanic forms, 9-16	inversion polymorphism in the seaweed fly, 415-423
ecological genetics of speckled wood butter- fly, 179-188	larval density in the seaweed fly, 415-423 habitat and Est-6 in tree-hole mosquito,
significance of polymorphism in Dactylis,	133–139
153–169	location peripheral, of the Y-chromosome,
environmental sensitivity, selection for, 297-	227–234
301 enzyme polymorphisms, genetic analyses of,	locomotor activity in <i>Drosophila</i> larvae, 63-75
121–131	male courtship behaviour in D. melanogaster, 453
epistasis in a computer simulation, 373-382 estimation of plant neighbourhoods, 273-283	recombination events induced in dysgenic
existence of polymorphic equilibria, 337–346	hybrids, 189–202
expression of DNA ligase in yeast, 448 eyespot resistance in a bread wheat, 431-435	mapping of <i>PHR</i> 1, a yeast photoreactivation gene, 458

medical genetics (bk. rev.), 443-444
melanic forms, dominance relations in, 9-16
mitotic and meiotic chromosomes and effects
of B-chromosomes on chiasma
frequency, 355-362
malecular cloning of a gene of S. nambe, 456

molecular cloning of a gene of S. pombe, 456, 456–457

mutagens, screening test for detection of, 455–456

mutagenesis to DAP resistance in Friend leukaemia cells, 455

neighbourhood model, Wright's, 273-283 nonsence suppressor to RNA's in eukaryotes, 450-451

nuclear DNA intraspecific variations in content of, 235-242 nucleolar competition in wheat-barley addi-

tion lines, 435-429

organisation of rDNA in S. cerevisiae, 448

pedigree of 2 "wild-type" strains of S. cerevisiae, 459
periclinal chimaerism in Petunia, 437-441
plasmids in a food spoilage yeast, 451
pleiotropy, contribution of, to continuous
variation, 95-102
polymorphic genotypic equilibria, 337-346
polymorphism for outcrossing frequency,
331-336

polyploidy and polymorphism in *Dactylis*, 153-169 population genetics models, 35

of tree-hole mosqiuto, 133-139 genetic theory, 43-61 structure of a land snail, 391-401 position effect in *Drosophila*, 203-213 preferential pairing in *Secale*, 317-322

quantitative characters and seed size, 25-33 fitness traits in guppies, 285-296

recombinational "hot spots" in yeast, 446-447 recombination deficient strains of *Ustilago*, 452

regeneration of plants from mutated epidermal layer, 437-441 regulatory gene evolution, 215-225 reproduction in a gynodioecious species, 77-93 restriction endonuclease map variation, 103-

rye genotypes and wheat pairing, 323-330

seed size differences in Avena, 25-33 selection for environmental sensitivity, 297-301

self-incompatibility loci in grasses, 303-305 sexual selection and assortative mating in ladybirds, 43-61

strain specificity for Rhizobium, 383-389 studies on L dsRNA genomes, 458 suppressors and antisuppressors of A nidulans, 451, 452 synthesis of E. coli DNA polymerase, 450

teaching chromosome behaviour and DNA recombination, 453
tetraploid hybrids, 317-332
transmission of B-chromosomes to offspring, 363-372
triocultures of *Drosophila*, 255-264
Ty elements in yeast, 450
Ty::lacZ fusions in yeast, 455

variation in agronomic characters in *Hordeum*, 17-23
a population of monarchs, 1-7
irradiated barley, 347-353

wheat-rye intergeneric hybrids, 323-330

Y-chromosome, peripheral location of, 227-234
yeast-DNA topoisomerase mutants, 447
mating pheromone a factor, 446
telomeres and artificial chromosomes, 448-

449 transformation of, 449 transposon, Ty, 445-446