Anatomic and histopathologic study of two cases of O(13-15) trisomy: 258
Anatomical and cytological sex of a Saanen goat: 414

Animals:
Bos taurus: 135, 167, 193, 324
Bovine: 135, 167, 193, 324
Cat: 1
Felis domestica: 1
Funambulus pennantii (Wroughton): 342
Hamster, Chinese: 289
- Syrian: 97
Human: 34, 45, 62, 88, 112, 124, 143, 148, 207, 219, 228, 252, 258, 289, 334, 355, 394, 427 and 441
Marmoset: 384
Mesocricetus auratus: 97
Mouse: 159, 289, 295, 306
Potorous tridactylis apicalis: 19
Rat-kangaroo, Tasmanian: 19
Saanen goat: 0087
Squirrel, five striped, Indian: 342
Tamarinus nigrkollis: 384
Tortoiseshell cat: 1

Autoradiography (see also DNA, replication patterns)
- of chromosomes in Cri du Chat syndrome: 347
Autosome(s) (see also chromosomes, autosomes)
Autosome, short, reciprocal translocation with X in mouse: 295

Barr bodies in relation to nuclear size: 62
Blood, chromosomal alterations of clonal type in irradiated leukemic mice: 228

Cell culture (see chromosomes and replication patterns) Chimerism, in a tortoiseshell cat: 1, hematopoietic in the marmoset: 384
Chromosomal alterations in blood and skin of a clonal type in leukemic man irradiated for lung carcinoma: 228
- autoradiography in Cri du Chat syndrome: 347
Chromosome (see also chromosomes)
- acrocentric, small, enlarged short arm of, in grandfather, mother and child, the latter with Down’s syndrome: 441, autosome, deletion of: 38, 201
- translocated with X suppressing sex-linked variegation in mouse: 306, - , trisomy of in the mouse: 15 9
- changes, early, in SV40-infected fibroblasts: 45
- constitution 46XX, sterile male with: 207, - , D-group, familial occurrence of: 112
- deficiency (see deficiency)
- metacentric, very large in human with Turner’s syndrome: 427
- translocation(s) (see also translocation)
- translocation in twelve unrelated mongols: 34
- , - , 21 and reciprocal translocation in 13-15 group: 48
- , unbalanced translocation of 13-15 with 18 associated with developmental retardation: 228, 222, in hematopoietic chimerism in marmoset: 384 - , 384
- , Xg; evidence relating to from successive non-disjunction during meiosis: 334

Subject Index

of human thyroid tumors: 394
in meiosis in human male: 143
meiotic, air-drying method for, from mammalian testes: 289
of Saanen goat: 414
of Tasmanian rat-kangaroo, Potorous tridactylis apicalis: 19
in triploid-diploid chimeric cat: 1
sex, in somatic cells of the Syrian hamster, DNA replication patterns of: 97
- , replication patterns of, in bovine cell: 5
- sterile 46XX male: 207
- , clinical and cytogenetical studies in gonadal dysgenesis and bearing on Turner’s syndrome: 355
- and Xg, evidence relating to from successive non-disjunction during meiosis: 334
somatic, of Indian five striped squirrel *Funambulus pennanti*: 342

X, reciprocal translocation with autosome in mouse: 295

Clinical and cytogenetical studies in gonadal dysgenesis and bearing on cause of Turner’s syndrome: 355

Clonal type alterations in blood and skin of a leukemic man irradiated for lung carcinoma: 228

Cry du Chat syndrome, autoradiography in: 347

Cultures (see fibroblast cultures) Cytogenetic and hematologic evidence for hematopoietic chimerism in marmoset, *Tamarinus nigricollis*: 384

Cytogenetical and clinical studies in gonadal dysgenesis and bearing on cause of Turner’s syndrome: 355

Cytological and anatomical sex of a Saanen goat: 414

- differentiation in fetal bovine gonads: 93

Deficiency, partial trisomy-, syndrome resulting from a translocation: 8

Deletion of chromosome 8, 20

Differentiation, cytological, in fetal bovine gonads: 93

Division (see meiosis, meiotic, chromosomes)

DNA replication patterns of bovine sex chromosome 3, 13, 5

- - - of sex chromosomes in cells of Syrian hamster: 97

Down’s syndrome (see also mongols)

- D/F translocation in trisomy 21: 228

- in a child whose mother and grandfather, all have enlarged short arm of a small acrocentric chromosome: 44

Familial occurrence of an abnormal D-chromosome: 132

Fetal bovine gonads, cytological differentiation in: 193

Fetal bovine gonads, cytological differentiation in: 193

Follicular cells, fetal in meiosis of mammalian oocytes: 324

- - - - - - - - of sex chromosomes in cells of Syrian hamster: 97

- - in a child whose mother and grandfather, all have enlarged short arm of a small acrocentric chromosome: 44

Fetal bovine gonads, cytological differentiation in: 193

Gonadal dysgenesis clinical and cytogenetical studies and bearing on cause of Turner’s syndrome: 355

Gonads, fetal bovine, cytological differentiation in: 193

Gonadotropin (see maturation division)

Hematologic and cytogenetic evidence of hematopoietic chimerism in marmoset, *Tamarinus nigricollis*: 384

Hematopoietic chimerism, hematologic and cytogenetic evidence for: 384

Histopathologic and anatomic study of two cases of 13-15 trisomy: 258

Genetic studies in twelve translocation mongols: 34

Genetics of mouse translocation suppressing sex-linked variegation: 306

- successive non-disjunction at first and second meiotic division of spermatogenesis: 334

Gonadal dysgenesis clinical and cytogenetical studies and bearing on cause of Turner’s syndrome: 355

Gonads, fetal bovine, cytological differentiation in: 193

- Gonadotropin (see maturation division)

Hematologic and cytogenetic evidence of hematopoietic chimerism in marmoset, *Tamarinus nigricollis*: 384

Hematopoietic chimerism, hematologic and cytogenetic evidence for: 384

Histopathologic and anatomic study of two cases of 13-15 trisomy: 258

Subject Index

457

Infection, virus (see SV40)

Irradiation, blood and skin chromosomal alterations of clonal type in leukemic man treated with, for lung carcinoma: 228

Leukemia, chromosomal alterations of clonal type in man with: 228

Lung carcinoma, chromosomal alterations in a previously irradiated man with leukemia: 228

Mammals (see animals)

Maturation division in bovine oocytes following gonadotropin injections: 167

Meiosis (see also pachytene)

- in the human male: 143

- of mammalian oocytes, role of fetal follicular cells a, 324

Meiotic division, first and second of spermatogenesis, successive non-disjunction in; evidence of chromosomes and Xg: 334

preparations, air-drying method from mammalian testes: 289

Methods (see technique)

Mongolism (see Down’s syndrome)

Mongols, twelve unrelated with translocations: 34

Non-disjunction, successive, at first and second meiotic division of spermatogenesis; evidence of chromosomes and Xg: 334

Nuclear size, Barr bodies in relation to: 62

Oocytes, bovine, maturation division in: 167

- mammalian meiosis of, role of fetal follicular cells a, 324

Pachytene chromosomes, human, sites of nucleolus formation a, 124

Parental age data in twelve translocation mongols: 34

Reciprocal translocation (see translocation) Replication patterns (see also DNA)

- of bovine sex chromosomes in cell culture: 13, 5

Rev: retardation, developmental associated with unbalanced 13-15/18 translocation: 252

Sex, anatomical and cytological of a Saanen goat: 414

- chromatin (see Barr bodies)

- linked variegation suppressed by translocation in mice: 306

Skin, chromosomal alterations of clonal type in irradiated leukemic man: 228

Somatic cells, DNA replication patterns of sex chromosomes in: 97

Spermatogenesis, successive non-disjunction in meiotic division of: 334

Sterile male with chromosome constitution 46XX: 207

SV40-infected human fibroblasts, chromosome changes in: 45
Subject Index

Triploid-diploid chimerism in a tortoiseshell cat: 1

Triploidy, autosomal in the mouse: 159
- 13/15 anatomic and histopathologic study in two cases of: 258
  - deficiency syndrome, partial, resulting from a reciprocal translocation: 81
  - In and reciprocal translocation in 13-15 group: 148
  - in Down’s syndrome with D/F translocation: 219

Turner’s syndrome, cause, clinical and cytogenetical studies in gonadal dysgenesis and bearing on: 385
  - very large metacentric chromosome in human with symptoms of: 427

Variegation, sex-linked suppressed by translocation in mouse: 306 Virus (see SV40)

Xg and successive non-disjunction in meiotic division of spermatogenesis: 334