Subject Index

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: 2
- *Felis domestic*: 1
- *Funambulus pennantii* (Wroughton): 342
- Hamster, Chinese: 289
  - Syrian: 97
- Marmoset: 384
- *Mesocricetus auratus*: 97
- Mouse: 59, 289, 295, 306
- *Potorous tridactylis apicalis*: 19
- Rat-kangaroo, Tasmanian: 19
- Saanen goat: 00087
- Squirrel, five striped, Indian: 342
- *Tamarinus nigrkollis*: 384
- Tortoiseshell cat: 347
  - Autoradiography (see also DNA, replication patterns)
    - of chromosomes in *Cri du Chat* syndrome: 347
  - Autosome(s) (see also chromosomes, autosomes)
    - 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: 347
- hematopoetic 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
  - autosomal deletion of \( 18; 201 \)
  - translocated with X suppressing sex-linked variegation in mouse: 306
  - trisomy of in the mouse: 159
  - – 21 and reciprocal translocation in 13-15 group: 258
  - X translocation in mouse suppressing sex-linked variegation: 306
- – translocation in twelve unrelated mongols: 34
- – X translocation in mouse suppressing sex-linked variegation: 306
- Chromosomes, autosomes (see also translocation)
  - abnormal D-chromosome, familial occurrence of: 112
  - a D/F translocation in trisomy 21 Down’s syndrome: 219
  - – 21 and reciprocal translocation in 13-15 group: 258
  - unbalanced translocation of 13-15/18 associated with developmental retardation: 252

Chromosomes, autosomes, familial occurrence of: 112
- D-group, familial occurrence of: 112

Daughter and maternal D-group chromosomes, association of: 347
- and Xg; evidence relating to from successive non-disjunction during meiosis: 355
- in triploid-diploid chimeric cat: 19
- 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: 355

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: 19
sex, in somatic cells of the Syrian hamster, DNA replication patterns of: 97
- replication pattern of, in bovine cell: 35
- sterile 46XX male: 207
  - and Xg; evidence relating to from successive non-disjunction during meiosis: 355

Subject Index
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

*Cri 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: 81

Deletions of chromosome: 8, 20

Differentiation, cytological, in fetal bovine gonads: 93

Division (see meiosis, meiotic, chromosomes)

DNA replication patterns of bovine sex chromosome: 13

- of sex chromosomes in cells of Syrian hamster: 97

Down’s syndrome (see also mongols)

- D/F translocation in trisomy 21: 219

- in a child whose mother and grandfather, all have enlarged short arm of a small acrocentric chromosome: 441

Familial occurrence of an abnormal D-chromosome: 132

Fetal bovine gonads, cytological differentiation in: 193

Fetus, bovine, role of follicular cells in meiosis of oocytes: 324

Fibroblast cultures, human, SV40-infected, chromosome changes in: 45

Follicular cells, fetal in meiosis of mammalian oocytes: 324

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: 3, 24

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 translocation: 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

Nucleolus formation, sites of in human pachytene chromosomes: 124

Parental age data in twelve translocation mongols: 34

Pachytene chromosomes, human, sites of nucleolus formation: 12, 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, 35

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
Syndrome, *Cri du Chat*, autoradiography in: 347

t-, partial trisomy-deficiency syndrome resulting from a translocation: 81

**Technique:**

Air-drying method for meiotic preparations from mammalian testes: 289

Meiosis in the human male: 143

Testes, mammalian, air-drying method for meiotic preparations from: 289

Thyroid tumors, human, chromosomes of: 394

Translocation, D/F in a case of regular trisomy 21 Down’s syndrome: 219

t-, in twelve unrelated mongols: 34

t-, reciprocal, in mouse between X and autosome: 295

t-, in 13-15 group and trisomy 21: 48

t-, partial trisomy-deficiency syndrome resulting from: 81

t-, suppressing sex-linked variegation in mouse: 306

t-, unbalanced 12-15-18, associated with developmental retardation: 252

34 Cytogenet Genome Res 1964

**Subject Index**

Triploid-diploid chimerism in a tortoiseshell cat: 1

Trisomy, autosomal in the mouse: 139

t-, D1 (13-15) anatomic and histopathologic study in two cases of: 258

t-, deficiency syndrome, partial, resulting from a reciprocal translocation: 81

t- 21 and reciprocal translocation in 13-15 group: 48

Turner’s syndrome with D/F translocation: 219

Turner’s syndrome, cause, clinical and cytogenetical studies in gonadal dysgenesis and bearing on: 355

Variegation, sex-linked suppressed by translocation in mouse: 306

Virus (see SV40)

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