

INDEX OF AUTHORS

- ATHERTON, B. T. 233
 BEKERS, A. G. M. 155
 BRAMWELL, M. E. 249
 BRINK, M. 69
 CHATTERJEE, K. 35
 CIAMPOLINI, F. 1
 CLARK, P. 9
 CLAVIEZ, M. 69
 CREANOR, J. 207
 CRESTI, M. 1
 CURTIS, A. S. G. 9, 25
 DEY, A. 35
 ENGSTRÖM, W. 47
 ETIEVANT, CH. 83
 FERNS, S. A. 119
 FILIPPINI, A. 145
 FODOR, I. 57
 FORRESTER, J. V. 9
 GERISCH, G. 69
 GHOSH, S. 35
 HAGA, N. 263
 HESLOP-HARRISON, J. 1
 HESLOP-HARRISON, Y. 1
 HOLLÁN, S. R. 57
 KARINO, S. 263
 KIMBELL, R. 119
 KOCH, G. 217
 KUIJPERS, H. 173
 LAPIÈRE, CH. M. 83, 95
 LELKES, GÁBOR 57
 LELKES, GYÖRGY 57
 MACER, D. 217
 MARCHESI, V. T. 145
 McMURRAY, H. 25
 McNALLY, J. G. 305
 MEYER, D. M. 233
 MICHELS, F. 83
 MITCHISON, J. M. 191, 207
 MONAGHAN, P. 119
 MORTARA, R. 217
 MUKHERJEE, A. S. 35
 NAKATSUJI, N. 109
 NG, J. F. 287
 NOVAK, B. 191
 NUSGENS, B. 83
 PAYE, M. 83, 95
 PIECK, A. C. M. 155
 PIERARD, D. 83
 RAHAT, M. 273
 RAMAEKERS, F. 173
 REICH, V. 273
 RIJKEN, A. A. M. 155
 SHOTTON, D. M. 249
 SIMPSON, D. G. 233
 SMITH, M. 217
 STEFANINI, M. 145
 STOTT, D. 133
 SWIFT, H. 305
 TAM, L.-W. 287
 TIEZZI, A. 1
 UKIL, M. 35
 VAN VENROOIJ, W. 173
 VERHEIJEN, R. 173
 VOOUJ, P. 173
 WANKA, F. 155
 WARBURTON, M. J. 119
 WEBSTER, P. 217
 WISEMAN, G. 249
 WYLIE, C. C. 133
 ZANI, B. M. 145
 ZIPARO, E. 145

INDEX OF SUBJECTS

- Acridine Orange**
induces intramembrane particle aggregation
in non-haemolysed erythrocytes: LELKES,
FODOR, LELKES & HOLLÁN 57
- Actin**
in a mutant *D. discoideum* with flattened
cells: CLAVIEZ, BRINK & GERISCH 69
- Adhesion mechanisms**
and substrate hydroxylation: CURTIS,
FORRESTER & CLARK 9
- Algae**
endosymbiosis, host/symbiont specificity:
RAHAT & REICH 273
- Amphibians**
gastrulation, migration and attachment of
mesoderm cells: NAKATSUJI 109
- Autoantibodies**
in study of U1 RNP-associated proteins
during interphase and mitosis: VERHEIJEN,
KUIJPERS, VOOJIS, VAN VENROOIJ &
RAMAEKERS 173
- Basement membrane protein**
deposition in virally transformed
myoepithelial cells: WARBURTON, FERNS,
KIMBELL & MONAGHAN 119
- Cancer cells**
lack of attachment to collagen corrected by
fibronectin: PAYE & LAPIÈRE 95
- cdc mutants**
have an enzyme with step changes in activity
during cell cycle in fission yeast: CREANOR
& MITCHISON 207
of yeast, changes in rate of CO₂ production:
NOVAK & MITCHISON 191
- Cell activation**
by fibronectin in cell adhesion: CURTIS &
McMURRAY 25
- Cell adhesion**
and substrate hydroxylation: CURTIS,
FORRESTER & CLARK 9
lack of, in transformed epithelial cells,
corrected by fibronectin: PAYE &
LAPIÈRE 95
of fibroblasts without fibronectin: CURTIS &
McMURRAY 25
of *Xenopus* mesoderm cells to substrata:
NAKATSUJI 109
- Cell cycle**
event persists after DNA-division cycle is
blocked in fission yeast: NOVAK &
MITCHISON 191
CREANOR & MITCHISON 207
- Cell interactions**
of mouse embryonic cells *in vitro*: STOTT &
WYLIE 133
- Cell invasiveness**
of mouse embryonic primordial germ cells:
STOTT & WYLIE 133
- Cell locomotion**
effects of EGF, in embryonal carcinoma
line: ENGSTRÖM 47
- Cell migration**
of mouse primordial germ cells *in vitro*:
STOTT & WYLIE 133
of *Xenopus* mesoderm cells on substrata:
NAKATSUJI 109
- Cell motility**
of *D. discoideum* mutant cells: CLAVIEZ,
BRINK & GERISCH 69
- Cell proliferation**
in embryonal carcinoma cell line, effects of
EGF: ENGSTRÖM 47
- Cell shape**
in mutant *D. discoideum*, cytoskeleton:
CLAVIEZ, BRINK & GERISCH 69
- Cell spreading**
in virally transformed rat mammary
myoepithelial cells: WARBURTON, FERNS,
KIMBELL & MONAGHAN 119
- Cellular aging**
microinjection of immaturin rejuvenates
sexual activity of old *Paramecium*: HAGA
& KARINO 263
- Chemotaxis**
in a mutant *D. discoideum* with flattened
cells: CLAVIEZ, BRINK & GERISCH 69
- Chlorella**
host/symbiont specificity: RAHAT &
REICH 273
- Chlorococcum**
symbiosis, host/symbiont specificity: RAHAT
& REICH 273
- Chromatin**
non-histone proteins, affinity binding to
X chromosome of *Drosophila*: UKIL,
CHATTERJEE, DEY, GHOSH &
MUKHERJEE 35

Chromosome scaffold

persistence in interphase nucleus: BEKERS,
PIECK, RIJKEN & WANKA 155

Collagen

lack of attachment to, by transformed cells,
corrected by fibronectin: PAYE &
LAPIÈRE 95

CO₂ production

change in rate in fission yeast cultures:
NOVAK & MITCHISON 191

Culture

of rat pulmonary epithelial cells: PAYE,
ETIEVANT, MICHIELS, PIERARD, NUSGENS &
LAPIÈRE 83

Cytoskeletal modifications

in non-haemolysed human erythrocytes:
LELKES, FODOR, LELKES & HOLLÁN 57

Desmoplakin

in macula adherens, role in myofibril
organization in rat heart cells: ATHERTON,
MEYER & SIMPSON 233

DNA organization

in interphase nucleus: BEKERS, PIECK,
RIJKEN & WANKA 155

Drosophila

X chromosome, affinity binding to non-
histone protein: UKIL, CHATTERJEE, DEY,
GHOSH & MUKHERJEE 35

Electron microscopy

of the CA antigen, epitectin: BRAMWELL,
WISEMAN & SHOTTON 249

Embryonal carcinoma

cell line, effects of EGF on cell locomotion
and proliferation: ENGSTRÖM 47

Endoplasmic reticulum

contains abundance of Ca-binding
glycoprotein, endoplasmin: KOCH, SMITH,
MACER, WEBSTER & MORTARA 217

Endoplasmin

major calcium-binding protein in
endoplasmic reticulum of mammalian
cells: KOCH, SMITH, MACER, WEBSTER &
MORTARA 217

Endymion

actin during pollen germination: HESLOP-
HARRISON, HESLOP-HARRISON, CRESTI,
TIEZZI & CIAMPOLINI 1

Enzyme activity

with step changes in fission yeast: CREANOR
& MITCHISON 207

Epidermal growth factor

effects on cell locomotion and proliferation
in embryonal carcinoma cells:
ENGSTRÖM 47

Epitectin

electron microscopy of: BRAMWELL,
WISEMAN & SHOTTON 249

Epithelial lung cells

characterization of transformed cells: PAYE,
ETIEVANT, MICHIELS, PIERARD, NUSGENS &
LAPIÈRE 83

lack of attachment to collagen corrected by
fibronectin: PAYE & LAPIÈRE 95

Erythrocytes, non-haemolysed

mobility of intramembrane particles:
LELKES, FODOR, LELKES & HOLLÁN 57

Fibronectin

-coated substrate, attachment of mesoderm
cells during gastrulation: NAKATSUJI 109
corrected lack of attachment of transformed
epithelial cells to collagen: PAYE &
LAPIÈRE 95
role in cell adhesion reinterpreted: CURTIS &
McMURRAY 25

Fission yeast

cell cycle, enzyme with step changes:
CREANOR & MITCHISON 207
change in rate of CO₂ production: NOVAK &
MITCHISON 191

Freeze-fracture

in study of intramembrane particle mobility
in non-haemolysed erythrocytes: LELKES,
FODOR, LELKES & HOLLÁN 57

FXIII

enhances fibronectin-mediated attachment
of PER cells to collagen I: PAYE &
LAPIÈRE 95

Gastrulation

of *Xenopus*, migration and attachment of
presumptive mesoderm cells:
NAKATSUJI 109

Glucose-regulated glycoprotein

in endoplasmic reticulum of mammalian
cells: KOCH, SMITH, MACER, WEBSTER &
MORTARA 217

GP₁₀₀

major mammalian cell glycoprotein is
membrane-associated: KOCH, SMITH,
MACER, WEBSTER & MORTARA 217

Helleborus

actin during pollen germination: HESLOP-
HARRISON, HESLOP-HARRISON, CRESTI,
TIEZZI & CIAMPOLINI 1

Hordeum

actin during pollen germination: HESLOP-
HARRISON, HESLOP-HARRISON, CRESTI,
TIEZZI & CIAMPOLINI 1

Hydra

symbiosis, host/symbiont specificity: RAHAT & REICH 273

Hydroxylation

substrate, and cell adhesion: CURTIS, FORRESTER & CLARK 9

Immaturin

microinjection rejuvenates sexual activity of old *Paramecium*: HAGA & KARINO 263

Intercalated disc

assembly and remodelling in neonatal rat heart cells: ATHERTON, MEYER & SIMPSON 233

Intramembrane particle

aggregation in non-haemolysed erythrocytes: LELKES, FODOR, LELKES & HOLLÁN 57

Laminin

-coated substrate, attachment of mesoderm cells during gastrulation: NAKATSUJI 109

Laser

microbeam irradiation of micronucleus in study of role in stomatogenesis in sexual reproduction in *Paramecium tetraurelia*: TAM & NG 287

Mammalian cells

persistence of chromosome scaffold in interphase nucleus: BEKERS, PIECK, RIJKEN & WANKA 155

Membrane

skeleton protein in rat Sertoli cells: ZIPARO, ZANI, FILIPPINI, STEFANINI & MARCHESI 145

Micrasterias

cytoplasmic organization during pattern formation: McNALLY & SWIFT 305

Microinjection

of immaturin rejuvenates sexual activity of old *Paramecium*: HAGA & KARINO 263

Micronucleus

role in stomatogenesis in sexual reproduction of *Paramecium*: TAM & NG 287

Microtubules

from mutant *D. discoideum* with flattened cells: CLAVIEZ, BRINK & GERISCH 69

Monoclonal antibodies

in study of U1 RNP-associated proteins during interphase and mitosis: VERHEIJEN, KUIJPERS, VAN VENROOIJ & RAMAEKERS 173

Mucin

-like glycoprotein, epitectin, electron microscopy of: BRAMWELL, WISEMAN & SHOTTON 249

Narcissus

actin during pollen germination: HESLOP-HARRISON, HESLOP-HARRISON, CRESTI, TIEZZI & CIAMPOLINI 1

Nuclear matrix

persistence in interphase nucleus: BEKERS, PIECK, RIJKEN & WANKA 155

protein during interphase and mitosis:

VERHEIJEN, KUIJPERS, VOOJIS, VAN VENROOIJ & RAMAEKERS 173

Paramecium

sexual activity rejuvenated by microinjection of immaturin: HAGA & KARINO 263

sexual reproduction, role of micronucleus in stomatogenesis: TAM & NG 287

Pattern

formation in *Micrasterias*, cytoplasmic organization: McNALLY & SWIFT 305

Pollen actin

during germination: HESLOP-HARRISON, HESLOP-HARRISON, CRESTI, TIEZZI & CIAMPOLINI 1

Pollen germination

presence of actin: HESLOP-HARRISON, HESLOP-HARRISON, CRESTI, TIEZZI & CIAMPOLINI 1

Primordial germ cells

of mouse, invasive behaviour *in vitro*: STOTT & WYLIE 133

Schizosaccharomyces pombe

change in rate of CO₂ production: NOVAK & MITCHISON 191

nucleoside diphosphokinase activity with step changes during the cell cycle: CREANOR & MITCHISON 207

Secretory differentiation

role of endoplasmic reticulum and endoplasmic: KOCH, SMITH, MACER, WEBSTER & MORTARA 217

Sertoli cells

rat, proteins of membrane skeleton: ZIPARO, ZANI, FILIPPINI, STEFANINI & MARCHESI 145

Skeleton

of rat Sertoli cell membrane, proteins: ZIPARO, ZANI, FILIPPINI, STEFANINI & MARCHESI 145

Symbiosis

algae in brown hydra, host/symbiont specificity: RAHAT & REICH 273

Transformation

of pulmonary epithelial rat cells: PAYE,
ETIEVANT, MICHIELS, PIERARD, NUSGENS &
LAPIÈRE 83

U1 RNP

-associated protein, distribution during
interphase and mitosis: VERHEIJEN,
KUIJPERS, VOOLS, VAN VENROOIJ &
RAMAEKERS 173

Ultrastructure

in *Micrasterias* during pattern formation:
McNALLY & SWIFT 305

Vinculin

in fascia adherens, role in myofibril
organization in rat heart cells: ATHERTON,
MEYER & SIMPSON 233

Viral transformation

of rat mammary myoepithelial cells:
WARBURTON, FERNS, KIMBELL &
MONAGHAN 119

wee mutants

of fission yeast, change in rate of CO₂
production: NOVAK & MITCHISON 191
of fission yeast with step changes in enzyme
activity during the cell cycle: CREANOR &
MITCHISON 207

X chromosome

of *Drosophila*, affinity binding of non-
histone chromatin proteins: UKIL,
CHATTERJEE, DEY, GHOSH &
MUKHERJEE 35

Xenopus

gastrulation, migration and attachment of
mesoderm cells: NAKATSUJI 109

- page 1 **Heslop-Harrison, J., Heslop-Harrison, Y., Cresti, M., Tiezzi, A. and Ciampolini, F.** Actin during pollen germination
- 9 **Curtis, A. S. G., Forrester, J. V. and Clark, P.** Substrate hydroxylation and cell adhesion
- 25 **Curtis, A. S. G. and McMurray, H.** Conditions for fibroblast adhesion without fibronectin
- 35 **Ukil, M., Chatterjee, K., Dey, A., Ghosh, S. and Mukherjee, A. S.** Affinity binding of non-histone chromatin proteins to the X chromosome of *Drosophila* by *in situ* reconstitution and its significance
- 47 **Engström, W.** Differential effects of epidermal growth factor (EGF) on cell locomotion and cell proliferation in a cloned human embryonal carcinoma-derived cell line *in vitro*
- 57 **Leikes, G., Fodor, I., Leikes, G. and Hollán, S. R.** The mobility of intramembrane particles in non-haemolysed human erythrocytes: factors affecting Acridine-Orange-induced particle aggregation
- 69 **Claviez, M., Brink, M. and Gerisch, G.** Cytoskeletons from a mutant of *Dictyostelium discoideum* with flattened cells
- 83 **Paye, M., Etievant, Ch., Michiels, F., Pierard, D., Nusgens, B. and Lapière, Ch. M.** Characterization of a spontaneously transformed pulmonary embryonic rat (PER) epithelial cell line
- 95 **Paye, M. and Lapière, Ch. M.** The lack of attachment of transformed embryonic lung epithelial cells to collagen I is corrected by fibronectin and FXIII
- 109 **Nakatsuji, N.** Presumptive mesoderm cells from *Xenopus laevis* gastrulae attach to and migrate on substrata coated with fibronectin or laminin
- 119 **Warburton, M. J., Ferns, S. A., Kimbell, R. and Monaghan, P.** Dissociation of basement membrane protein deposition and cell spreading in virally transformed rat mammary myoepithelial cells
- 133 **Stott, D. and Wylie, C. C.** Invasive behaviour of mouse primordial germ cells *in vitro*
- 145 **Ziparo, E., Zani, B. M., Filippini, A., Stefanini, M. and Marchesi, V. T.** Proteins of the membrane skeleton in rat Sertoli cells
- 155 **Bekers, A. G. M., Pieck, A. C. M., Rijken, A. A. M. and Wanka, F.** Evidence for the persistence of a decondensed chromosome scaffold in the interphase nucleus
- 173 **Verheijen, R., Kuijpers, H., Vooijs, P., van Venrooij, W. and Ramaekers, F.** Distribution of the 70K U1 RNA-associated protein during interphase and mitosis: correlation with other U RNP particles and proteins of the nuclear matrix
- 191 **Novak, B. and Mitchison, J. M.** Change in the rate of CO₂ production in synchronous cultures of the fission yeast *Schizosaccharomyces pombe*: a periodic cell cycle event that persists after the DNA-division cycle has been blocked
- 207 **Creanor, J. and Mitchison, J. M.** Nucleoside diphosphokinase, an enzyme with step changes in activity during the cell cycle of the fission yeast *Schizosaccharomyces pombe*. I. Persistence of steps after a block to the DNA-division cycle
- 217 **Koch, G., Smith, M., Macer, D., Webster, P. and Mortara, R.** Endoplasmic reticulum contains a common, abundant calcium-binding glycoprotein, endoplasmic
- 233 **Atherton, B. T., Meyer, D. M. and Simpson, D. G.** Assembly and remodelling of myofibrils and intercalated discs in cultured neonatal rat heart cells
- 249 **Bramwell, M. E., Wiseman, G. and Shotton, D. M.** Electron-microscopic studies of the CA antigen, epitectin
- 263 **Haga, N. and Karino, S.** Microinjection of immaturin rejuvenates sexual activity of old *Paramecium*
- 273 **Rahat, M. and Reich, V.** Algal endosymbiosis in brown hydra: host/symbiont specificity
- 287 **Tam, L.-W. and Ng, S. F.** The role of the micronucleus in stomatogenesis in sexual reproduction of *Paramecium tetraurelia*: laser microbeam irradiation of the micronucleus
- 305 **McNally, J. G. and Swift, H.** Cytoplasmic organization during pattern formation in the alga *Micrasterias*