## INDEX OF AUTHORS

<table>
<thead>
<tr>
<th>Author</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahuja, K. K.</td>
<td>247</td>
</tr>
<tr>
<td>Alvey, P. L.</td>
<td>147</td>
</tr>
<tr>
<td>Andries, L.</td>
<td>191</td>
</tr>
<tr>
<td>Barngrover, D.</td>
<td>173</td>
</tr>
<tr>
<td>Barnett, R. J.</td>
<td>233</td>
</tr>
<tr>
<td>Bowman, P.</td>
<td>133</td>
</tr>
<tr>
<td>Brown, R. M.</td>
<td>105</td>
</tr>
<tr>
<td>Buzhiyevskaya, T. I.</td>
<td>97</td>
</tr>
<tr>
<td>Crossley, R.</td>
<td>205</td>
</tr>
<tr>
<td>Farbman, A. I.</td>
<td>283, 311</td>
</tr>
<tr>
<td>Gilburt, D. J.</td>
<td>247</td>
</tr>
<tr>
<td>Harrisson, F.</td>
<td>191</td>
</tr>
<tr>
<td>Hertsen, R.</td>
<td>191</td>
</tr>
<tr>
<td>Hickey, I.</td>
<td>87</td>
</tr>
<tr>
<td>Holberton, D.</td>
<td>205</td>
</tr>
<tr>
<td>Kenney, D. M.</td>
<td>1</td>
</tr>
<tr>
<td>Kytryk, M. A.</td>
<td>133</td>
</tr>
<tr>
<td>Linck, R. W.</td>
<td>1</td>
</tr>
<tr>
<td>Lord, B. L.</td>
<td>117</td>
</tr>
<tr>
<td>Lukash, L. L.</td>
<td>97</td>
</tr>
<tr>
<td>Mahle, N. J.</td>
<td>49</td>
</tr>
<tr>
<td>Martin, B.</td>
<td>163</td>
</tr>
<tr>
<td>Matsuya, Y.</td>
<td>263, 273</td>
</tr>
<tr>
<td>McConville, C.</td>
<td>87</td>
</tr>
<tr>
<td>McNamnam, M.</td>
<td>87</td>
</tr>
<tr>
<td>Menco, P. M.</td>
<td>283, 311</td>
</tr>
<tr>
<td>Merchant, J. L.</td>
<td>233</td>
</tr>
<tr>
<td>Middleton, C. A.</td>
<td>105</td>
</tr>
<tr>
<td>Murphy, C. R.</td>
<td>163</td>
</tr>
<tr>
<td>Neill, R.</td>
<td>87</td>
</tr>
<tr>
<td>Papermaster, D. S.</td>
<td>233</td>
</tr>
<tr>
<td>Pesciotta, D. M.</td>
<td>23</td>
</tr>
<tr>
<td>Sahara, N.</td>
<td>67</td>
</tr>
<tr>
<td>Sahr, B. H.</td>
<td>23, 49</td>
</tr>
<tr>
<td>Segawa, A.</td>
<td>67</td>
</tr>
<tr>
<td>Shapiro, N. I.</td>
<td>97</td>
</tr>
<tr>
<td>Simmons, P. J.</td>
<td>117</td>
</tr>
<tr>
<td>Suzuki, K.</td>
<td>67</td>
</tr>
<tr>
<td>Thilly, W. G.</td>
<td>173</td>
</tr>
<tr>
<td>Thomas, J.</td>
<td>173</td>
</tr>
<tr>
<td>Turley, E. A.</td>
<td>133</td>
</tr>
<tr>
<td>Vakaet, L.</td>
<td>191</td>
</tr>
<tr>
<td>Varshaever, N. B.</td>
<td>97</td>
</tr>
<tr>
<td>Yamane, I.</td>
<td>263, 273</td>
</tr>
<tr>
<td>Yamashina, S.</td>
<td>67</td>
</tr>
</tbody>
</table>
INDEX OF SUBJECTS

Bicarbonate-free Leibovitz medium
high density mammalian cell growth:
BARNGROVER, THOMAS & THILLY 173

Cell agglutination
enhancement by lectins: MATSUYA & YAMANE I 263
enhancement by polycations: MATSUYA & YAMANE II 273

Cell behaviour
of epithelial cells in culture: BROWN & MIDDLETON 105

Cell contact
effect of hyaluronate and hyaluronate-binding protein: TURLEY, BOWMAN & KYTRYK 133

Cell culture
mammalian, in bicarbonate-free Leibovitz medium: BARNGROVER, THOMAS & THILLY 173
of epithelial cells, individual behaviour:
BROWN & MIDDLETON 105

Cell cycle
in relation to centriole cycle in 3T3 and CHO cells: ALVEY 147

Cell hybridization
enhancement by lectins: MATSUYA & YAMANE I 263
enhancement by polycations: MATSUYA & YAMANE II 273

Cell junctions
of blastoderm edge in gastrulating chick and quail embryos: ANDRIES, HARRISON, HERTSENS & VAKAET 191

Cell motility
effect of hyaluronate and hyaluronate-binding protein: TURLEY, BOWMAN & KYTRYK 133

Cell proliferation inhibitor
produced by macrophage-like cells: SIMMONS & LORD 117

Centriole
cycle, investigation using 3T3 and CHO cells: ALVEY 147

Chick embryo
cell junctions and locomotion of blastoderm edge: ANDRIES, HARRISON, HERTSENS & VAKAET 191

Cholesterol
in plasma membrane of uterine epithelial cells: MURPHY & MARTIN 163

Cilia
genesis during rat nasal epithelial prenatal development: MENCO & FARMBAN I, II 283, 311

Culture medium
effect of Cerophyl® on exocytosis in Tetrahymena: PESCIOTTA & SATIR 23

Cytochalasin B
effect on somatic cell hybrids between normal and transformed cells: HICK, MCCONVILL, McMENAMIN & NEILL 87

Cytochemistry
in study of cholesterol in plasma membrane of uterine epithelial cells: MURPHY & MARTIN 163

Cytoskeleton
microtubules in Giardia, associated with filaments of giardin: CROSSLEY & HOLBERTON 205
of unstimulated platelets: KENNEY & LINCK 1

Digitonin
with freeze-fracture cytochemistry in study of cholesterol in plasma membrane of uterine epithelium: MURPHY & MARTIN 163

Electron microscopy
of genesis of cilia and microvilli in rat nasal epithelia: MENCO & FARMBAN I 283

Epithelial cells
morphology and locomotion in culture:
BROWN & MIDDLETON 105

Epithelium
junctional patterns in locomotion in chick and quail embryos: ANDRIES, HARRISON, HERTSENS & VAKAET 191

Exocrine gland
acinar structure and membrane regionalization in secretion: SEGAWA, SAHARA, SUZUKI & YAMASHINA 67

Exocytosis
in Tetrahymena, effect of Cerophyl® growth medium: PESCIOTTA & SATIR 23

Fertilization
sperm sulphatases in sperm–zona interactions in hamster: AHUJA & GILBURT 247

Freeze-fracture cytochemistry in study of cholesterol in plasma membrane of uterine epithelium: MURPHY & MARTIN 163
Index of Subjects

in study of effect of growth medium on exocytosis in Tetrahymena: PESCIOTTA & SATIR 23

in study of cell junctions and locomotion in gastrulating chick and quail embryos: ANDRIES, HARRISON, HERTSENS & VAKAET 191

Fructose effect on culture chemistry of mammalian cells in Leibovitz medium: BARNGROVER, THOMAS & THILLY 173

Giardia cytoskeleton microtubules associated with giardin: CROSSLEY & HOLBERTON 205

Giardin attached to microtubules in cytoskeleton of Giardia: CROSSLEY & HOLBERTON 205

Hyaluronate effect on cell motile and contact behaviour: TURLEY, BOWMAN & KYTRYK 133

Lectin enhancement of cell hybridization and agglutination: MATSUMYA & YAMANE I 263

Macrophages mature, contain antigen to monoclonal antibody F4/80: SIMMONS & LORD 117

MDCK cells high density growth in bicarbonate-free Leibovitz medium: BARNGROVER, THOMAS & THILLY 173

Membrane regionalization as prerequisite for secretion in rat submandibular gland: SEGAWA, SAHARA, SUZUKI & YAMASHINA 67

Microtubules in Giardia cytoskeleton, associated with filaments of giardin: CROSSLEY & HOLBERTON 205

isolated marginal band in platelets: KENNEY & LINCK 1

Microvilli genesis during rat nasal epithelial development: MENCO & FARBMAN I, II 283, 311

Migration of blastoderm edge in gastrulating chick and quail embryos: ANDRIES, HARRISON, HERTSENS & VAKAET 191

Monoclonal antibodies in isolation of proliferation inhibitor-producing cells from bone marrow: SIMMONS & LORD 117

Morphometry in study of correlation between Na⁺,K⁺-ATPase content and plasma membrane surface area in duck salt glands: MERCHANT, PAPERMASTER & BARRNETT 233

Mucocysts of Tetrahymena, in study of secretion: MAIHLE & SATIR 49

Mutagenesis induced by viral oncogene: LUKASH, VAKHSHAYER, BUSHCHYEVA & SHAPIRO 97

Na⁺,K⁺-ATPase content, correlation with plasma membrane surface area in duck salt glands: MERCHANT, PAPERMASTER & BARRNETT 233

Olfactory epithelium morphometric analysis of genesis of cilia and microvilli in rat: MENCO & FARBMAN II 311

qualitative study of cilia and microvilli in rat: MENCO & FARBMAN I 283

Plasma membrane of uterine epithelial cells, cholesterol: MURPHY & MARTIN 163

surface area, correlation with Na⁺,K⁺-ATPase content in duck salt glands: MERCHANT, PAPERMASTER & BARRNETT 233

Platelets unstimulated, cytoskeleton: KENNEY & LINCK 1

Prenatal development of rat nasal epithelia, cilia and microvilli: MENCO & FARBMAN I, II 283, 311

Polyctene enhancement of cell hybridization and agglutination: MATSUMYA & YAMANE II 273

Procentriole in centriole cycle in 3T3 and CHO cells: ALVEY 147

Protein secretion in Tetrahymena thermophila: MAIHLE & SATIR 49

Rosettes assembly in Tetrahymena cells in Cerophyl growth medium: PESCIOTTA & SATIR 23
Index of Subjects

Salt glands
  in adapted and de-adapted ducklings, correlation between Na⁺, K⁺-ATPase content and plasma membrane surface area: MERCHANT, PAPERMASTER & BARONETT 233

Secretion
  exocrine, in rat submandibular gland: SEGAWA, SAHARA, SUZUKI & YAMASHINA 67

SEM
  in morphometric study of genesis of cilia and microvilli in rat nasal epithelium: MENCO & FARBMAN II 311

Sulphatases
  of sperm, in early sperm–zona interactions in hamster: AHUJA & GILBURT 247

Suppression
  of transformed phenotype by cytochalasin B: HICKEY, McCONVILLE, McMENAMIN & NEILL 87

Surface glycoproteins
  are they sulphated in nature? AHUJA & GILBURT 247

Tetrahymena
  effect of Cerophyl® growth medium on exocytosis: PESCIOTTA & SATIR 23
  protein secretion: MAHLE & SATIR 49

Tumour promoter, TPA
  enhances transforming effect of carcinogens: LUKASH, VARSHAVER, BIZHIYEVSKAIA & SHAPIRO 97

Uncontrolled nuclear division
  in somatic cell hybrids between normal and transformed cells: Hickey, McConville, McMenamin & Neil 87

Uterus
  plasma membrane of epithelial cells, cholesterol: MURPHY & MARTIN 163

Vero cells
  high density growth in bicarbonate-free Leibovitz medium: BARINGROVER, THOMAS & THILLY 173

Viral oncogene
  as a mutagen: LUKASH, VARSHAVER, BIZHIYEVSKAIA & SHAPIRO 97
The Eukaryote Cell Nucleus

Announcing three important new books on structure biochemistry and molecular biology of the nucleus from The Company of Biologists Limited

**Higher Order Structure in the Nucleus**
- £10.00 plus £2.00 p&p
- £19.00 plus $4.00 p&p
- 236 pages casebound
- ISBN 0 9508709 4 3
- December 1984

**Programmes for Development**
- £10.00 plus £2.00 p&p
- £19.00 plus $4.00 p&p
- 366 pages casebound
- ISBN 0 9508709 2 7
- November 1984

**Controlling Events in Meiosis**
- £32.00 including p&p
- $60.00 including p&p
- 394 pages casebound
- ISBN 0 9508709 1 9
- February 1985

Order from or write for free brochure to
The Biochemical Society Book Depot  P.O. Box 32 Commerce Way Colchester
Essex CO2 8HP UK


Maiale, N. J. and Satir, B. H. Protein secretion in Tetrahymena thermophila: characterization of the secretory mutant strain SB281.

Segawa, A., Sahara, N., Suzuki, K. and Yamashina, S. Acinar structure and membrane regionalization as a prerequisite for exocrine secretion in the rat submandibular gland.


Lukash, L. L., Varshaver, N. B., Buzhiyevskaya, T. I. and Shapiro, N. I. The oncogene of BAV-3 as a mutagen.


Simmons, P. J. and Lord, B. I. Enrichment of CFU-S proliferation inhibitor-producing cells based on their identification by the monoclonal antibody F4.80.

Turner, E. A., Bowman, P. and Nyberg, M. A. Effects of hyaluronate and hyaluronate binding proteins on cell motility and contact behaviour.

Alvey, P. L. An investigation of the centriole cycle using 3T3 and CHO cells.

Murphy, C. R. and Martin, B. Cholesterol in the plasma membrane of uterine epithelial cells; a freeze-fracture cytochemical study with digitonin.

Barngrover, D., Thomas, J. and Thilly, W. G. High density mammalian cell growth in Leibovitz bicarbonate-free medium: effects of fructose and galactose on culture biochemistry.

Andries, L., Harrisson, F., Hertsens, R. and Vakaet, L. Cell junctions and locomotion of the blastoderm edge in gastrulating chick and quail embryos.

Crossley, R. and Holberton, D. Assembly of 2.5 nm filaments from giardin, a protein associated with cytoskeletal microtubules in Giardia.


Ahuja, K. K. and Giburt, D. J. Involvement of sperm sulphatases in early sperm–zona interactions in the hamster.

Matsuya, Y. and Yamane, I. Cell hybridization and cell agglutination. I. Enhancement of cell hybridization by lectins.

Matsuya, Y. and Yamane, I. Cell hybridization and cell agglutination. II. Enhancement of cell hybridization by polycations.


Menco, B. Ph. M. and Farberman, A. I. Genesis of cilia and microvilli of rat nasal epithelia during pre-natal development. II. Olfactory epithelium, a morphometric analysis.