

## ACTA STEREOLOGICA

| CONTENTS  | Page |
|---|------|
| <i>EDITORIAL</i> .....  | III  |
| <i>GENERAL BIOLOGY</i>  |      |
| <b>Correction for autoradiographic image spread: A comparison between two methods</b> , <i>M. A. Williams, A. M. Downs, E. Junger</i> .....   | 115  |
| <b>Simplified differential counting of particles in light microscopy</b> , <i>M. Kališnik, Z. Pajer</i> .....   | 121  |
| <b>Ultrastructural and morphometric investigation on the fetal rat liver</b> , <i>M. Kraemer, J. Vassy, M. T. Chalumeau, A. Reith</i> .....   | 127  |
| <b>Long-term effect of ionizing irradiation on rat parafollicular cells at various activation levels of thyroid follicular cells</b> , <i>M. Logonder-Mlinšek, M. Kališnik, M. Zwitter, M. Sušec-Michieli</i> .....       | 133  |
| <i>NEUROBIOLOGY</i>   |      |
| <b>Histochemistry — A tool for primary image formation in neurobiology</b> , <i>O. Johansson</i> .....  | 141  |
| <b>Disc-like and complex-shaped synapses: Number, size and dense projections. A critical note</b> , <i>D. M. G. de Groot</i> .....  | 147  |
| <b>Stereological studies of TMB-reacted terminals after axonal transport of WGA-HRP — A possibility of characterizing different bouton populations</b> , <i>J. Westman</i> .....  | 153  |
| <b>Growth models for topological binary branching patterns</b> , <i>J. van Pelt, R. W. H. Verwer</i> .....  | 159  |
| <b>On the cell proliferative activity of the chick embryo optic cup after dividing it into nine sectors</b> , <i>F. Abadia-Fenoll, F. Abadia-Molina, R. Calvente, M. Valderrama</i> .....                                 | 165  |
| <b>On the use of automatic image analysis in the demonstration of transmitter identified nerve cell clusters in the central nervous system</b> , <i>A. M. Janson, L. F. Agnati, K. Fuxe, I. Zini, A. Härfstrand</i> ..... | 171  |
| <b>Image analysis and the determination of the entity of coexistence of neuroactive substances in nerve cell body populations</b> , <i>L. F. Agnati, K. Fuxe, A. M. Janson, R. Grimaldi, I. Zini, A. Härfstrand</i> ..... | 175  |
| <b>Image analysis and the determination of codistribution and coexistence of neuroactive substances in nerve terminal populations</b> , <i>K. Fuxe, L. F. Agnati, A. Härfstrand, M. Zoli, A. M. Janson</i> .....          | 181  |
| <b>Computer assisted image analysis of regenerating nerve terminals in the peripheral and central nervous systems</b> , <i>H. Hallman, J. Luthman, C. Jonsson</i> .....   | 187  |
| <b>Computer assisted image analysis of transmitter receptors</b> , <i>F. Benfenati, M. Cimino, K. Fuxe, L. F. Agnati</i> .....  | 193  |

## PATHOLOGY

|   |     |
|---|-----|
| <b>Morphometric analysis of focal lung injury caused by low levels of nitrogen dioxide, L. Y. Chang, J. D. Crapo</b> .....  | 201 |
| <b>Morphometric alterations in the lung induced by inhaled bacterial endotoxin, R. C. Lantz, R. Burrell, D. E. Hinton</b> .....   | 207 |
| <b>Different stereological reaction patterns of the myocardium in hypertrophy induced by exercise and pressure overload, T. Mattfeldt, G. Mall, K. L. Krämer, R. Zeitz, H. Baust, J. Mann, C. Hasslacher, R. Waldherr</b> ..... | 211 |
| <b>Ultrastructural morphometric study on the rat heart in chronic alimentary thiamine deficiency, G. Mall, H. J. Möbius, T. Mattfeldt, R. Leonhard</b> .....  | 217 |

## CANCER RESEARCH

|   |     |
|---|-----|
| <b>Automated karyometry of hepatocytes during experimental liver carcinogenesis in normally-fed and protein-deficient rats, F. Z. El Kebir, M. T. Chalumeau, J. P. Rigaut</b> .....                           | 225 |
| <b>Karyometry, with stereological estimations, of human gastric dysplasia, J. P. Rigaut, B. Fringes</b> .....   | 231 |
| <b>Particle size analysis of nuclei (nuclear unfolding) in tumour pathology, P. C. M. de Wilde, R. G. F. Knol, P. J. Slootweg</b> .....   | 237 |
| <b>Morphological markers in cytology, G. Burger, K. Rodenacker, U. Jütting, P. Gais, U. Schenck</b> .....   | 243 |
| <b>Synthetic structure analysis of bronchus carcinomas — First results, K. Kayser, B. Kiefer, H. U. Burkhardt, M. Shaver</b> .....  | 249 |
| <b>Cytomorphometric and histomorphometric evidence of the development of carcinoma in situ of the bladder in patients followed for low-grade papillary bladder carcinoma, M. E. Boon, E. C. M. Ooms</b> ..... | 255 |
| <b>The stereology of projection provides reasonable parameters for the control of tumor therapy, H. Röhrer, O. Leder</b> .....  | 261 |
| <b>Morphometric evidence of a relation between human papilloma virus infection and cervical intraepithelial neoplasm, M. E. Boon, L. P. Kok</b> .....   | 267 |

|                                   |     |
|-----------------------------------|-----|
| <b>FORTHCOMING MEETINGS</b> ..... | VII |
|-----------------------------------|-----|

|                           |      |
|---------------------------|------|
| <b>AUTHOR INDEX</b> ..... | VIII |
|---------------------------|------|

|                            |   |
|----------------------------|---|
| <b>SUBJECT INDEX</b> ..... | X |
|----------------------------|---|

## INSTRUCTIONS TO AUTHORS