Contents, Vol. 45, 1984

No. 1 Original Paper
Heart Rate Response to Tilting in Newborns in Quiet and Active Sleep
Finley, J.P.; Hamilton, R.; MacKenzie, M.G 1
Excretory Pattern of Bile during Phototherapy
Berant, M.L; Brik, R.; Alon, U.; Makhul, I.; Diamond, E.; Mordochowitz, D 11
Fetal Ovarian Hilar Cells and Testicular Leydig Cells in Various Complications of Pregnancy
Zondek, L.H.; Zondek, T 17
Pressure Profiles in Neonatal Spontaneously Hypertensive Rats
Gray, S.D 25
Uteroplacental Vascular Perfusion and Blood Flow during Pregnancy in the Guinea Pig
Garris, D.R 33
Triiodothyronine Nuclear Receptors in Liver, Brain and Lung of Neonatal Rats. Effect of Hypothyroidism and Thyroid Replacement Therapy
Bellabarba, D.; Fortier, S.; Bélisle, S.; Lehoux, J.-G 41
Thyroid Hormone Effects on Skin and Hepatic Epidermal Growth Factor Concentrations in Neonatal and Adult Mice
Hoath, S.B.; Lakshmanan, J.; Fisher, D.A 49

No. 2 Original Paper
The Effect of Hematin on Bilirubin Binding in Bilirubin-Enriched Neonatal Cord Serum
Kirk, J.J.; Ritter, D.A.; Kenny, J.D 53
Brainstem Auditory Evoked Responses in the Newborn Lamb. Studies during Postnatal Development and Acute Hypoxia
Ashwal, S.; Staddon, T.; Geller, M.; Longo, L.D 58
Cardiovascular and Renal Effects of Isoproterenol Infusions in Young Swine
Buckley, N.M.; Brazeau, P.; Charney, A.N.; Cabili, S.; Feldman, G.; Garvey, M.; Frasier, I.D 69
Development of Enzymes of Energy Metabolism in Rat Heart
Andres, A.; Satrústegui, J.; Machado, A 78
Glucose Homeostasis in Fasted Neonatal Rats Treated with High Doses of L-Thyroxine
Escrivá, F.; Pascual-Leone, A.M 86
Role of Gastrin and Cholecystokinin in the Ontogenic Development of the Gastrointestinal Tract
Zahavi, I.; Kelly, J.; Gall, D.G 97

Brief Communication
Serum Angiotensin I-Converting Enzyme Activity in Premature and Full-Term Infants
Maury, M.; Walti, H.; Richer, C; Francoual, C; Relier, J.-P.; Giudicelli, J.-F 102

IV Contents
No. 3 Original Paper
Cardiovascular and Catecholamine Responses to Successive Episodes of Hypoxemia in the
Fetus
Lewis, A.B.; Wolf, W.J.; Sischo, W. 105
Effects of Human Albumin Infusion on Transepidermal Water Loss in Newborn Infants
Hammarlund, K.; Hellsing, K.; Sedin, G.; Strömberg, B. 112
Bacterial Endotoxins in Umbilical Cord Blood of Neonates
Scheifele, D.W.; Fussell, S.; Olsen, E. 119
Evidence that Hepatic Mitochondrial Mass Decreases during the First Sixteen Hours following Birth in Starved Newborn Rats
Escrivá, F.; Decaux, J.F.; Ferré, P.; Girard, J.R. 125
Developmental Changes in Mitochondrial Components in Liver of Newborn Rats
Effect of Fetal Decapitation on the Composition and Metabolic Characteristics of Pig Skeletal Muscle
MacLarty, J.L.; Campion, D.R.; Hausman, G.J.; Reagan, J.O.; Meredith, F.I. 142
Abstracts
Acknowledgement 155
No. 4 Original Paper
Energy Metabolism and Relative Brain Size in Human Neonates from Single and Multiple Gestations. An Allometric Study
Hofman, M.A. 157
Lecithin-Cholesterol Acyltransferase Activity in Children in the Early Neonatal Period
Dobiásová, M.; Stozický, F.; Kopecká, J. 165
Contribution of Heart Muscle, Liver, Skeletal Muscle and Placenta to the Asphyxial Hypoxanthine Elevation in the Acutely Exteriorised Fetal Lamb
Thiringer, K.; Karlsson, K.; Rosen, K.G.; Kjellmer, I. 169
Fatty Acid Oxidation by Developing Rat Kidney
Freund, N.; Sedraoui, M.; Geloso, J.-P. 183
Effects of Dexamethasone Administration to Pregnant Rats on Adenylate Cyclase and Cyclic AMP Phosphodiesterase Activities in the Maternal and Fetal Lungs
Chaudhary, K.C.; Nijjar, M.S. 188
Intestinal Cathepsin B and D Activities of Suckling Rats
Davies, P.H.; Messer, M. 197
Effect of Maternal Progesterone Exposure on Fetal Testosterone in Mice
Pointis, G.; Latreille, M.T.; Richard, M.O.; D’Athis, P.; Cedard, L. 203
No. 5 Original Paper
Serum and Urine Amino Acid Patterns during the First Month of Life in Small-for-Date Infants
Contents V
Plasma Amino Acids of the Mid-Trimester Human Fetus
McIntosh, N.; Rodeck, C.H.; Heath, R. 218
Effect of Phototherapy on Plasma 25(OH)-Vitamin D in Neonates
Gillies, D.R.N.; Hay, A.; Sheltawy, M.J.; Congdon, P.J. 225
Iron Status of the Preterm Infant during the First Year of Life
Halliday, H.L.; Lappin, T.R.J.; McClure, G 228

Perinatal Development of the Lung in Rat and Spiny Mouse: Its Relation to Altricial and Precocial Timing of Birth
Oosterhuis, W.P.; Mooren, P.G.; Charles, R.; Lamers, W.H 236

The Effects of Myometrial Activity on Fetal Thoracic Dimensions and Uterine Blood Flow during Late Gestation in the Sheep
Harding, R.; Poore, E.R 244

Sodium Cholate Interactions with Rabbit’s Pulmonary Surfactant
Donoso, P.; Oyarzún, M.J.; Segovia, A.; Guerrero, M.; Puig, F 252

Brief Communication
Differential Stabilities of Fetal Intestinal Disaccharidases Determine Their Relative Amounts Released into Amniotic Fluid
Potier, M.; Morin, P.-R.; Melançon, S.B.; Dallaire, L 257

No. 6 Original Paper
Human Fetal Weight and Placental Weight Growth Curves. A Mathematical Analysis from a Population at Sea Level
Bonds, D.R.; Mwape, B.; Kumar, S.; Gabbe, S.G 261

Value of Leukocyte Alkaline Phosphatase and Other Leukocyte Parameters in Diagnosis of Neonatal Infection
Paul, R.S.; Kumar, A 275

Comparison of 2,3-Diphosphoglycerate Metabolism between Fetal and Postnatal Pig Red Cells
Watts, R.P.; Kim, H.D 280

Development of the Gastrointestinal Mucosal Barrier. IV. The Effect of Inhibition of Proteolysis on the Uptake of Macromolecules by the Intestine of the Newborn Rabbit before and after Weaning
Udall, J.N.; Bloch, K.J.; Vachino, G.; Feldman, P.; Walker, W.A 289

Brief Communication
Litter Size, Maternal Parameters, and Brain and Body Parameters of Neonatal Rats
Zamenhof, S.; Marthens, E. van 296

Abstracts
Abstracts from the Meeting of the Neonatal Society. Institute of Child Health, London, February 2, 1984 299

Erratum 302
Author Index 303
Subject Index 305