

Subject Index to Volume 26

- Acidemia, propionic, carnitine metabolism in, 63
- Adenosine, concentration, cord blood, vaginal delivery and cesarean section, 106
- Afterload, left ventricle adaptations to, preterm lamb, 336
- Age
- intestinal response to hemorrhage and, developing piglet, 102
 - parathyroid hormone responsiveness and, immature rat, 54
 - plasma levels of β -casomorphin-7 after milk intake related to, dog, 34
 - reduction of insulin-like growth factor I by protein restriction related to, rat, 415
- Agglutination test, antibody detection, autoimmune neutropenia, infant, 246
- Air-blood barrier, development, human fetal lung, 88
- Airway, occlusion, genioglossus and diaphragm activity during, infant, 583
- Alanine, transport, plasma membrane vesicles, pregnant rat liver, 448
- Alkalosis, respiratory, indomethacin effect on cerebral blood flow regulation during, newborn piglet, 593
- Alkaptonuria, ascorbic acid effect, children and adults, 140
- Allergy, serum immunoglobulin E levels in, role of Fc receptors, 49
- American Pediatric Society, presidential address 1989, 287
- Amino acid, plasma concentrations, protein intake and, infant, 614
- Aminophylline, effect on diaphragmatic blood flow, piglet, 196
- Antibody
- binding patterns, immunoblot analysis, Lyme disease, 377
 - detection, immunofluorescence and agglutination test, infant, 246
 - group B *Streptococcus* type-specific, transplacental or enteral transfer, suckling rat, 629
- Antigen, absorption, bacterial diarrhea, rabbit, 237
- Antigenuria, *Haemophilus influenzae* type b, in asymptomatic carriers, 491
- Antilipolytic hormone, adipocyte response, fat cells, infants and adults, 255
- Antioxidant
- defense mechanisms, developmental patterns, human erythrocytes, 366
 - hyperoxia effect, type II cells, neonatal rat, 400
 - total radical trapping capacity, cord blood plasma, term and preterm neonate, 20
- Antioxidant enzyme, maturation, sex differences, fetal rabbit lung, 16
- Apnea
- at-risk infants, reflex modification procedures, 576
 - obstructive, genioglossus and diaphragm activity during, infant, 583
- Ascorbic acid, effect on benzoquinone acetic acid, alkaptonuria, adults and children, 140
- L-Asparaginase, direct long-term effects, cultured pancreatic islets, 158
- Asphyxia
- cerebral hypoperfusion after, role of oxygen free radicals, newborn lamb, 215
 - perinatal, adenosine effect, vaginal delivery, 106
- Atrial natriuretic peptide, renal and cardiovascular effects, ovine fetus, 1
- Bacteria, opsonization, biochemical abnormalities of neonatal C3, 116
- Benzoquinone acetic acid, ascorbic acid effect, alkaptonuria, adults and children, 140
- Bilirubin
- detoxification, extracorporeal bilirubin oxidase reactor, rat, 452
 - neurotoxicity, nuclear magnetic resonance spectroscopic study, rat, 356
- Biotinase, deficiency, subacute necrotizing encephalomyelopathy caused by, 260
- Birth, afterload alterations, adaptations of left ventricle to, preterm lamb, 336
- Blood flow
- atrial natriuretic peptide effect, fetal sheep, 1
 - cerebral, regulation, indomethacin effect, respiratory alkalosis, newborn piglet, 593
 - diaphragmatic, aminophylline effect, piglet, 196
 - during cardiopulmonary resuscitation with simultaneous chest compression and ventilation, infant pig, 558
 - intestinal, response to hemorrhage, piglet, 102
- Borrelia burgdorferi*, antibody binding to polypeptides of, immunoblot analysis, Lyme disease, 377
- Brain
- alternate energy fuels, after hypoxia, neonatal mice, 478
 - cingulate sulcus, development, preterm infants, 598
 - injury
 - cingulate sulcus maturation and, preterm infants, 598
 - hypoxic-ischemic, regional cerebral glucose use and, rat, 208
 - myo-inositol levels, effect of chronic hypernatremia on, mice, 482
- Brainstem, altered sensory processing, assessment, reflex modification procedures, 576
- Breathing: *see* Respiration
- Bronchopulmonary dysplasia
- elastase/proteinase inhibitor imbalance in, infants on prolonged ventilation, 351
 - furosemide effects, body water compartments, infant, 121
- Calcium
- transport
 - intestinal Golgi vesicles, developing rat, 58
 - placental, fetal control, rat, 109
- Carbamyl phosphate synthetase, radiochromatographic measurement, enzyme-deficient human liver, 77
- Carboxylation, vitamin K-dependent, maturation, fetal and neonatal rat liver, 370
- Cardiac output
- low, metabolic response, lamb, 180
 - low dose dopamine effect, after open heart surgery, 200
- Cardiopulmonary resuscitation, simultaneous chest compression and ventilation technique, blood flow during, infant pig, 558
- Carnitine, metabolism, in propionic acidemia, 63
- β -Casomorphin-7, plasma levels, after milk ingestion, age effect, dog, 34
- Cerebral artery, blood flow velocity characteristics, maturational differences, neonate, 588
- Chemotherapy, effect on tumor burden and energy utilization, newly diagnosed acute lymphoblastic leukemia, 154
- Chromatography, affinity, lactoferrin purification by, 618
- Cingulate sulcus, development, preterm infants, 598
- Collagen, lung, neonatal protein deprivation and, rat, 125
- Colon, epidermal growth factor and transforming growth factor immunoreactivity, human fetus, 25
- Colony-stimulating factor, recombinant human granulocyte-macrophage, effect on cord blood granulocyte function, 43
- Colostrum, removal, recovery, and characterization of immunoglobulin from, 623
- Complement, third component, biochemical abnormalities, neonate, 116
- Complementation analysis, in peroxisome disorders, 67
- Copper, absorption, measurement technique comparison, very low birth weight infants, 298
- Cord blood
- adenosine concentration, vaginal delivery and cesarean section, 106
 - granulocyte functions, effects of recombinant human granulocyte-macrophage colony stimulating factor, 43
 - monocytes, herpes simplex replication in, human neonate, 135
 - plasma radical trapping capacity, term and preterm neonate, 20
- Cortisol, renal effects, gestational changes, ovine fetus, 6
- Cystine, lysosomal, depletion by mercaptoethylgluconamide, 73
- Cystinosis, nephropathic, cystine-depleting action of mercaptoethylgluconamide, 73
- Deoxyribonucleic acid, immobilized single-stranded, purification of human lactoferrin, 618
- Dexamethasone, prenatal exposure, effect on heart rate control mechanisms, rat, 554
- D- β -Hydroxybutyrate, as alternate energy fuel, posthypoxia brain cells, neonatal mice, 478

- Diaphragm, electromyographic activity, during obstructive apnea and airway occlusion, infant, 583
- Diet, protein restriction, age-related reduction of insulin-like growth factor-I, rat, 415
- 1,25-Dihydroxyvitamin D₃, production and metabolic clearance rate, pregnant sheep and chronically catheterized fetus, 633
- Dopamine, low dose, effect on hemodynamic and renal function, 200
- Ductus arteriosus, oxygen-related prostaglandin synthesis in, fetal lamb, 330
- Elastase/proteinase inhibitor, imbalance, during prolonged ventilation, infant, 351
- Elastin, lung, neonatal protein deprivation and, rat, 125
- Electrocardiography, QT prolongation, chick embryo, 11
- Encephalomyelopathy, subacute necrotizing, caused by biotinidase deficiency, 260
- Energy, expenditure, newly diagnosed acute lymphoblastic leukemia, 154
- Energy substrate, total parenteral nutrition, neonate, 290
- Enzyme, antioxidant, hyperoxia effect, type II cells, neonatal rat, 400
- Epidermal growth factor, immunoreactivity, human fetal gut, 25
- Erythrocyte, antioxidant defense mechanisms, developmental patterns, 366
- Escherichia coli*, diarrhea, antigen absorption in, rabbit, 237
- Eucaryotic cells, *Haemophilus influenzae* type b adherence to, kinetics, 500
- European Society for Paediatric Gastroenterology
abstracts of annual meeting, 267
author index to abstracts, 284
- European Society for Pediatric Research, abstracts of annual meeting, 504
- Exhalation, passive, respiratory system mechanics, preterm lamb, 425
- Fatty acid, total, total parenteral nutrition, neonate, 290
- Fetus
cardiovascular effects of nifedipine, rat, 442
1,25-dihydroxyvitamin D₃ production and metabolic clearance rates, primed infusion technique, sheep, 633
fluid homeostasis, role, atrial natriuretic peptide, sheep, 1
heart rate control mechanisms, dexamethasone and terbutaline effect, rat, 554
hematopoietic growth factors, developmental regulation, 531
iron utilization, prolonged intrauterine hyperinsulinemia effect, sheep, 467
lung
air-blood barrier development, 88
antioxidant enzyme maturation, sex differences, rabbit, 16
prostaglandin synthesis, oxygen-related, ductus arteriosus, lamb, 330
renal effects of cortisol, gestational changes, sheep, 6
Sanfilippo syndrome, type D, spectrophotometric detection, 462
- Food, thermic effect, energy metabolism and, newly diagnosed acute lymphoblastic leukemia, 154
- Free radical, trapping ability, cord blood plasma, term and preterm neonate, 20
- Furosemide, effect on body water compartments, bronchopulmonary dysplasia, infant, 121
- Galanin, growth hormone secretion and, normal and short stature children, 316
- Gastric motility, effect of postnatal age, rabbit, 458
- Gastroesophageal reflux, developmental differences of lower esophageal sphincter, cat, 39
- Gender, antioxidant enzyme development and, fetal rabbit lung, 16
- Genioglossus, electromyographic activity, during obstructive apnea and airway occlusion, infant, 583
- Glucose, regional cerebral utilization, immature rat, 208
- Glycoprotein, intestinal, synthesis, tissue-specific characteristics, suckling rat colon, 232
- Golgi membranes, intestinal, calcium transport by, developing rat, 58
- Granulocyte, effect of recombinant human granulocyte-macrophage colony-stimulating factor on, neonate, 395
- Growth and development
agonist-mediated gastric smooth muscle contraction, developmental changes, rabbit, 458
air-blood barrier development, human fetal lung, 88
antioxidant defense mechanisms, human erythrocytes, 366
calcium transport by intestinal Golgi vesicles, developing rat, 58
cerebral velocity waveform characteristics, effect of gestational age on, 588
chemotherapy effect, acute lymphoblastic leukemia, 154
cingulate sulcus development, preterm infants, 598
developmental differences in metabolism, during oxygen deficit and recovery, lamb, 180
effect of sodium-deficient diet, rat, 608
galanin effect on growth hormone secretion, normal and short stature, 316
heart rate variation, first 6 months of life, 343
hematopoietic growth factors, developmental regulation, 531
intestinal response to hemorrhage, piglet, 102
lower esophageal sphincter modulation, developmental differences, cat, 39
lung antioxidant enzyme maturation, sex differences, fetal rabbit, 16
lung maturation, ontogeny of surfactant apoproteins, rat, 167
malnutrition effect on insulin-like growth factor I, cholestatic rat, 410
mitochondrial antioxidant defense, guinea pig, 220
papillary muscles, electrophysiologic properties, rabbit, 543
plasma β -casomorphin-7 after milk ingestion, neonatal and adult dogs, 34
protein intake in early infancy, 614
renal effects of cortisol, gestational changes, ovine fetus, 6
renal response to parathyroid hormone, immature rat, 54
- role of growth hormone-releasing hormone in physiologic release of growth hormone, 404
tracheal cartilage mechanics, developmental differences, preterm lamb, 429
upper intestinal epithelial changes, weaning effect, guinea pig, 31
vascular resistance distribution, developmental effects, hypoxia and indomethacin, lamb lung, 325
vitamin K-dependent carboxylation, maturation, fetal and neonatal rat liver, 370
- Growth hormone
nocturnal release, normal children, 404
physiologic release, role of growth hormone-releasing hormone, 404
secretion, galanin effect, normal and short stature children, 316
serum concentration, nocturnal, testosterone infusion effect, pubertal boys, 320
with reduced protein diet, uremic rat, 204
- Growth hormone-releasing hormone, immunoreactive, nocturnal release, normal children, 404
- Growth retardation, chronic renal failure with, insulin-like growth factor binding protein levels, 308
- Haemophilus influenzae* type b
adherence to eucaryotic cells, kinetics of, 500
meningitis, low-dose polymyxin B treatment, infant rat, 496
polysaccharide antigen, urinary excretion, nasopharyngeal carriers, 491
- Heart, mitochondrial antioxidant defense, perinatal development, guinea pig, 220
- Heart rate
atrial natriuretic peptide effect, fetal sheep, 1
control mechanisms, effects of prenatal dexamethasone and terbutaline, rat, 554
variability, spectral analysis, full-term infants, 188
variation, development, first 6 months of life, 343
- Heart ventricle, contractility and performance, during pressure loading, preterm lamb, 336
- Hematopoiesis, developmental regulation of growth factors, fetus and neonate, 531
- Heme oxygenase, inhibition by metalloporphyrins, adult rat intestine, 362
- Hemorrhage, intestinal response, age-related differences, piglet, 102
- Herpes simplex, replication, blood monocytes and placental macrophages, human neonate, 135
- Homovanillic acid, urinary levels, neuroblastoma screening program, Japan, 603
- Howland Award Acceptance, 390
- Howland Award Presentation, 388
- Hyaline membrane disease
respiratory mechanics, during passive exhalation, preterm lamb, 425
surfactant therapy, treatment of patent ductus arteriosus after, baboon, 565
- Hyperinsulinemia, intrauterine, effect on iron utilization, fetal sheep, 467
- Hyperketonemia, cardiac function during, spectroscopic study, dog, 536
- Hypernatremia, chronic, effect on brain myo-inositol levels, mice, 482