Subject Index to Volume 31

- Acid-base balance, effect of varying arterial oxygen tension, neonatal swine, 112
- Acidification, developmental changes, juxtamedullary proximal convoluted tubule, rabbit, 411
- Acylcarnitine, medium chain, urinary analysis, medium chain acyl-CoA dehydrogenase deficiency, 545
- Acyl-coenzyme A dehydrogenase deficiency medium chain
 - diagnosis, radioisotopic exchange/ HPLC method, 545
 - gas chromatographic diagnosis, lymphocytes and liver, 39
 - immunoblot analysis of fibroblast MCAD from, 34
 - mutation, 305
- short chain, tissue-specific isoforms, J mutant mice, 552
- Adolescents, insulin-dependent diabetic, evaluation, dawn phenomenon, 203
- Adrenal gland, steroidogenesis, metalloporphyrin effect, rat, 196
- β-Adrenergic receptor, myocardial responsiveness, thyroid hormone effect, fetal lamb, 468
- Airwa
 - smooth muscle, maturational changes, sheep, 151
- structure-function, preterm lamb, 157 Alcohol, acute maternal intoxication, cerebral response, fetal sheep, 645
- Antioxidant enzyme, hyperoxic esposure effect, alveolar and whole lung cells, neonatal and adult rat, 441
- Aorta, coarctation repair, reversibility of hypertensive vascular changes after, dog,
- Apnea, reflex, respiratory syncytial virus effect, young lamb, 381
- Arginine vasopressin, effect on ion transport, fetal distal lung epithelium, rat, 318
- Asphyxia, cerebral changes after, fetal sheep, 486
- Atrial natriuretic peptide, effect on ion transport, fetal distal lung epithelium, rat,
- Auditory brainstem response, outcome predictor, very low birth weight infants, 68
- Basic fibroblast growth factor, role, fetal lung development, rat, 435
- Biotinidase, serum levels, characterization, partial biotinidase deficiency, 261
- Blood coagulation: see Coagulation
- Blood flow
 - cerebral
 - pancuronium bromide effect during seizures, newborn pig, 636
 - velocity assessment, fetus and neonate, 649
 - choroidal, indomethacin effect, during hypercarbia, newborn piglet, 127
 - distribution, extracorporeal membrane oxygenation effect, neonatal lamb, 80
 - pulmonary, response to infusion of exogenous adenosine and ATP, fetal lamb, 451

- retinal, indomethacin effect, during hypercarbia, newborn piglet, 127
- uteroplacental, increased red cell aggregation effect, pregnant guinea pig, 91
- Blood group A, antigenic determinants, in surfactant protein-A, 364
- Blood monocyte, expression of surfactant tissue factor apoprotein by, during infection, early infancy, 567
- Bone
 - formation, serum bone γ-carboxyglutamic acid protein as marker of, breast-fed vs formula-fed infants, 401
 - mineralization, outcome, human milk-fed preterm infants, 583
- Bone marrow, transplantation, severe Gaucher disease, 503
- Bone mineral content, prediction, very low birth weight infants, 181
- Brain: see also specific anatomical location fetal glucose transport, intrauterine growth retardation, rat, 59
 - regional alterations, galactose-1-phosphate uridyltransferase, rat, 512
- regulation of mammalian glucose transporters, 1
- Brain damage, hypoxic-ischemic, hypoglycemia effect, newborn rat, 138
- Bronchopulmonary dysplasia, marker, type III collagen, N-terminal propeptide of, 340
- Calcium, inhibiting effect on iron absorption, human and cow's milk, 524
- Capsule, role, group B Streptococcus-induced pulmonary hypertension, 386
- Carbon dioxide, transcutaneous, premature and normal term infants, 73
- γ-Carboxyglutamic acid protein, serum bone concentrations, breast-fed vs formulafed infants, 401
- Cardiac cycle, length, ventricular relaxation rate and, chick embryo, 480
- Cardiomegaly, dexamethasone-induced, neonatal rat, 359
- Carnitine, role, prophylaxis of valproate hepatotoxicity, mouse, 419
- Carotid artery, denervation, febrile response altered by, lamb, 107
- Catecholamine, plasma concentration, capillary vs arterial, as sympatho-adrenal marker, infant, 579
- Catheter, conductance volume, left ventricular volume measurement, piglet, 85
- Cerebral cortex, pial arteriolar dilation, after topical application of group B streptococci, rat, 640
- Cholestasis, chronic, enhancement of vitamin D absorption, 146
- Cholesterol, plasma levels, term neonate, 396 Chronic granulomatous disease, X-linked recessive, genetic heterogeneity in patients with, 516
- Coagulation
 - activation, possible mechanism, sepsis, infant, 567
 - impairment of thrombin regulation, sick neonates, 391

- Coarctation, repair, reversibility of hypertensive vascular changes after, dog, 297
- Collagen, type III, N-terminal propertide, tracheal fluid, preterm infants, 340
- Colony-stimulating factor, granulocyte-macrophage, decreased production, human neonatal T cells, 211
- Colostrum, human, histidine-rich glycoprotein in, 239
- Complex carbohydrates, abnormal galactosylation of, fibroblasts from galactosemia patients, 508
- Copper, inherited toxicity, animal model of Wilson's disease, rat, 253
- CSF: see Colony-stimulating factor
- Cystic fibrosis, erythrocyte sodium-potassium transport, 425
- Cytokine, -induced pulmonary hypertension, pentoxifylline effect, piglet, 163
- Cytopenia, pathogenesis, during sepsis, 574
- Dawn phenomenon, comparison, normal and insulin-dependent diabetic adolescents, 203
- Deoxyribonucleic acid
 - confirmation, original dried blood specimens, neonatal hemoglobinopathy screening, 217
- mitochondrial deletions, Kearns-Sayre syndrome and Pearson's marrowpancreas syndrome, 557
- Dexamethasone, cardiomegaly induced by, neonatal rat, 359
- Diabetes
- insulin-dependent
 - dawn phenomenon, adolescents, 203 maternal, effect on neonatal glycerol metabolism and triglyceride-fatty acid cycling, 52
- Diaphragm, glycogen content, increased work load effect, neonatal lamb, 354
- Duodenum, immunoglobulin A response, SIDS victims, 372
- Eicosanoid, -induced pulmonary hypertension, pentoxifylline effect, piglet, 163
- Elastin, pulmonary vascular, developmental study, rat, 280
- Energy expenditure, malaria and fever effect, Gambian children, 102
- Enteral feeding, preterm infant, intestinal motor activity, fasting and feeding, 587
- Enterotoxin, jejunal secretory response, malnourished rat, 228
- Enzyme
 - augmentation, Gaucher disease, 496
- urea cycle, human fetal liver, gestational age and, 143
- Epidermal barrier, maturation, lipid content and bilayer organization and, perinatal rat. 308
- Epidermal growth factor, RNA ontogeny and, thyroxine treatment effect, rat kidney, 330
- Epidermal growth factor receptor, RNA ontogeny and, thyroxine treatment effect, rat kidney, 330

Epinephrine, intratracheal, age-related pulmonary changes, rabbit, 458

Epithelia, noncutaneous, separation, junctional epidermolysis bullosa, fetus, 561

Erythrocyte

increased aggregation impact, placental blood flow, pregnant guinea pig, 91

sodium-potassium transport, cystic fibrosis, 425

Erythropoiesis, peripheral blood, growth characteristics, 170

Escherichia coli, heat-stable enterotoxin, jejunal secretory response, malnourished rat, 228

Ethanol, teratogenesis, mechanism of, 492 Extracorporeal membrane oxygenation, effect on blood flow distribution, neonatal lamb, 80

Fasting, hepatic protein synthesis and, suckling rat, 247

Fat, regulation of mammalian glucose transporters, I

Fatty acid ethyl ester, role, fetal alcohol syndrome, 492

Fetal alcohol syndrome, fatty acid ethyl ester role, 492

Fetus

asphyxia, cerebral changes after, sheep, 486 cerebral flow velocity waveforms, perinatal assessment, 649

cerebral response, acute maternal alcohol intoxication, sheep, 645

circulating placental lactogen, nutritional regulation, 520

growth-retarded

cerebral and adrenal monoamine metabolism, rat, 131

glucose transport, rat, 59

hypothyroidism, postnatal cardiovascular responsiveness and, lamb, 468

insulin exposure, tissue iron status and, rat, 64

junctional epidermolysis bullosa, noncutaneous epithelia with, 561

late-gestation lung, transforming growth factor-α gene expression, rat, 286

liver, urea cycle enzyme levels, gestational age and, 143

lung

blood flow, ATP and adenosine effect, lamb, 451

development, platelet-derived growth factor role, rat, 323

expression of basic fibroblast growth factor, rat, 435

reflectance pulse oximetry, lamb, 266 T₃ sulfate as source of T₃, rat tissue, 541

carotid denervation effect, young lamb, 107

effect on energy expenditure, malaria patients, Gambia, 102

Fumarylacetoacetase, immunoreactive protein, hereditary tyrosinemia type I, 43

Galactosemia, abnormal galactosylation in, 508

Gas chromatography, diagnosis of medium chain acyl-CoA dehydrogenase deficiency, lymphocytes and liver, 39

Gastric mucosa, thickness, age-related changes, rat, 193

Gaucher disease

allogenic bone marrow transplantation, 503

enzyme augmentation, 496 GBS: see Streptococcus, group B

G-CSF: see Granulocyte-colony stimulating factor

Glucose, mammalian transporters, regulation of, 1

Glycerol, neonatal metabolism, effect of maternal diabetes and intrauterine growth retardation, 52

Glycogen, intramuscular use, increased work load effect, neonatal diaphragm, lamb, 354

Glycoprotein, histidine-rich, identification, human colostrum and milk, 239

Gonadotropin, nocturnal profiles, prediction, prepubertal and early pubertal boys, 535

Gonadotropin-releasing hormone, low dose, response, prepubertal and early pubertal boys, 535

Granulocyte-colony stimulating factor, production, mononuclear cells, adult and neonate, 574

Growth and development

airway smooth muscle, maturational changes, sheep, 151

auditory brainstem response and outcome, very low birth weight infants, 68

cardiac relaxation, developmental regulation, rabbit, 474

cartilage-hair hypoplasia, evaluation and growth charts for, 176

cerebral flow velocity wave forms, fetus and neonate, 649

cerebral response to acute maternal alcohol intoxication, immature and mature fetal sheep, 645

epidermal barrier, critical events associated with, perinatal rat, 308

fetal lung

basic fibroblast growth factor role, rat,

platelet-derived growth factor role, rat, 323

gastric mucus gel thickness, developmental changes, rat, 193

G-CSF and IL-3 production, mononuclear cells, adult and neonate, 574

growth hormone receptor, tissue-specific developmental regulation, rat kidney and lung, 335

hepatic protein synthesis, response to fasting, suckling rat, 247

hyperoxic exposure effect, alveolar cells, neonatal and adult rat, 441

hypoxemia effect, fetal and adult hemoglobin synthesis, sheep, 483

juxtamedullary proximal convoluted tubule, acidification changes, rabbit, 411

lung fibroblast, prostaglandin and cAMP accumulation, rat, 344

maternal protein-calorie malnutrition effect, fetal and neonatal rat lung, 629

myocardial cholinergic signaling, age-related changes, sheep, 601

peripheral blood erythropoiesis, growth characteristics, 170

phosphodiesterase inhibitors in rabbit myocardium, newborn, immature, and adult, 300

preterm intestine, during fasting and feeding, 587

prolactin effect on Na⁺K⁺-ATPase activity, rat nephron, 207

prolonged growth hormone administration effect, chronically uremic rat, 406

pulmonary changes, after intratracheal epinephrine, rabbit, 458

receptor regulation, newborn sheep, 462 tropoelastin gene expression, rat pulmonary vasculature, 280 unsaturated triacylglycerol accumulation, early postnatal growth, rat, 47

urea cycle enzyme levels, gestational age and, fetal liver, 143

Growth hormone

deficiency, prevalence of hGH-1 gene deletions in patients with, 532

gene deletion, prevalence, different populations, 532

prolonged administration, rats with chronic renal insufficiency, 406

secretion, effects of chronic renal insufficiency, rat, 528

tissue responsiveness, differential regulation, rat kidney and lung, 335

Growth hormone binding protein, developmental regulation, tissue-specific regulation, rat kidney and lung, 335

Growth hormone receptor, developmental regulation, tissue-specific regulation, rat kidney and lung, 335

Growth retardation

intrauterine

cerebral and adrenal monoamine metabolism effect, rat fetus, 131

effect on neonatal glycerol metabolism and triglyceride-fatty acid cycling, 52 fetal glucose transport, rat lung and

tal glucose transport, rat brain, 59

Heart

left ventricular volume, measurement, conductance volume catheter, piglet, 85

sarcoplasmic reticulum calcium pump, developmental regulation, rabbit, 474

ventricular relaxation rate, cardiac cycle length and, chick embryo, 480

Heart rate

dynamic analysis, normal infants versus SIDS victims, 606

fluctuations, stroke volume and, preterm infants, 117

variability, congenital central hypoventilation syndrome, 291

Hemoglobin, synthesis, hypoxemia effect, late gestation lamb, 483

Hemoglobinopathy, screening program, DNA confirmation, dried blood specimens, neonate, 217

Hepatic protein: see Protein

Hepatitis, spontaneous, inherited copper toxicity, rat, 253

Hepatocyte, regulation of mammalian glucose transporters, 1

Herpes simplex virus, antibodies, comparison, human milk and serum, 591

Heterogeneity, genetic, patients with Xlinked recessive chronic granulomatous disease, 516

Hormone: see also Growth hormone

gastrointestinal, plasma concentrations, term and preterm infants, 587

Human immunodeficiency virus, binding to CD4 receptor, inhibition by human milk factor, 22

Hyperammonemia, ibuprofen interaction with, animal model of Reye's syndrome, ferret, 258

Hypercarbia, choroidal and retinal blood flow during, indomethacin effect, newborn piglet, 127

Hypercholesterolemia, plasma lathosterol levels and, preterm infants given Intralipid, 186

Hyperoxia, antioxidant enzyme activities and, alveolar cells, neonatal and adult rat, 441 Hypertension pulmonary

GBS-induced, capsule role, 386

GBS-induced, leukotriene D₄ role, newborn lamb, 121

pentoxifylline effect, piglet, 163

Hypoglycemia, perinatal hypoxic-ischemic brain damage and, newborn rat, 138

Hypothyroidism, fetal, postnatal cardiovascular responsiveness and, lamb, 468

Hypoventilation, congenital central syndrome, heart rate variability, 291

Hypoxemia

chronic, postnatal intestinal function during, newborn lamb, 234

fetal hemoglobin synthesis and, late gestation lamb, 483

Hypoxia, neonatal acid-base balance and, swine, 112

Ibuprofen, interaction with influenza and hyperammonemia, animal model, Reye's syndrome, ferret, 258

IL-3: see Interleukin-3

Immune system, natural killer cell activity, very low birth weight infants, 376

Immunoglobulin A, response in duodenal mucosa, SIDS victims, 372

Immunoglobulin M, response in tracheal wall, SIDS victims, 372

Indomethacin

effect on pulmonary bacterial deposition, piglet, 14

effect on retinal and choroidal blood flow, during hypercarbia, newborn piglet, 127

-pentoxifylline pretreatment, GBS sepsis, piglet, 222

Infant: see also Neonate

preterm

heart rate fluctuations, 117

human milk-fed, bone mineralization outcomes, 583

hypercholesterolemia and plasma lathosterol, 186

intestinal motor activity, during fasting and feeding, 587

N-terminal propertide of type III collagen measurement, tracheal fluid, 340 respiratory training effect, 613

whole-body protein parameters, comparison, tracer substances, 95

sympatho-adrenomedullary activity, assessment, capillary plasma catecholamines, 579

ventilatory regulation, normal changes, premature and normal term infants, 73

very low birth weight

auditory brainstem response failure, 68 natural killer cell activity, 376

prediction, developing bone mineral content, 181

Infant feeding, serum bone γ-carboxyglutamic acid protein concentrations, breast-fed vs formula-fed infants, 401

Infection, expression of surface factor apoprotein and, blood monocytes, early infancy, 567

Influenza, ibuprofen interaction with, animal model of Reye's syndrome, ferret, 258

Inositol, role, pulmonary abnormalities, malnourished neonatal rat, 629

Insulin

clearance, role, dawn phenomenon, normal and insulin-dependent diabetic adolescents, 203

in utero exposure, tissue iron status and, rat, 64

Interleukin-3

decreased production, mononuclear cells, neonate, 574

production, mononuclear cells, adult and neonate, 574

Interleukin-6, defective production, neonatal monocyte, 18

Iron

bioavailability, human and cow's milk, role of calcium content, 524

status, effect of *in utero* insulin exposure, fetal rat tissue, 64

Isoproterenol, cAMP accumulation and, rat perinatal lung fibroblast, 344

Junctional epidermolysis bullosa, noncutaneous epithelia in, fetus, 561

Kearns-Sayre syndrome, blood mitochondrial DNA deletions, 557

Ketogenesis, from lactate, perinatal rat liver,

Kidney

chronic insufficiency

effect on growth hormone secretion, rat, 528

prolonged growth hormone administration effect, rat, 406

epidermal growth factor levels, RNA ontogeny, thyroxine effect, rat, 330

regulation of mammalian glucose transporters, l

Lactate, ketogenesis from, perinatal rat liver,

Lathosterol

plasma levels

hypercholesterolemia indicator, preterm infants given Intralipid, 186 term neonate, 396

Leukotriene D₄, role, GBS-induced pulmonary hypertension, newborn lamb,

Lipid

hydrophobic, cutaneous barrier maturation and, perinatal rat, 308

supplementation, pulmonary abnormalities, malnourished neonatal rat, 629

Liver

bactericidal activity, prostaglandin H synthase effect, piglet, 14

chronic cholestatic disease, enhancement of vitamin D absorption, 146

hepatic protein synthesis, developmental changes and fasting effect, suckling rat, 247

medium-chain acyl-CoA dehydrogenase deficiency, gas chromatographic diagnosis, 39

role, lactate metabolism, perinatal rat, 415 toxicity, pantothenate and carnitine prophylaxis, mouse, 419

unsaturated triacylglycerol accumulation, early postnatal rat, 47

urea cycle enzyme levels, gestational age and, fetus, 143

Lung

age-related changes, after intratracheal epinephrine, rabbit, 458

bactericidal activity, prostaglandin H synthase effect, piglet, 14

blood flow, ATP and adenosine effect, fetal lamb, 451

compliance, distribution of surfactant and, preterm rabbit, 270

development, platelet-derived growth factor role, rat, 323

distal epithelium, arginine vasopressin effect, fetal rat culture, 318

fetal development, basic fibroblast growth factor role, rat, 435

fetal glucose transport, intrauterine growth retardation, rat, 59

fibroblast, cAMP accumulation, prostaglandin and isoproterenol effect, rat, 344

growth and maturation, maternal proteincalorie malnutrition effect, rat, 629

mechanics, time dependence of, preterm lamb, 276

regulation of mammalian glucose transporters, I

transforming growth factor- α gene expression, late-gestation fetal rat, 286

vascular properties, pulsatile perfusion effect, newborn lamb, 349

vasculature, tropoelastin gene expression, rat, 280

vasodilation, purine nucleotide effect, fetal lamb, 451

Lymphocyte, medium-chain acyl-CoA dehydrogenase deficiency, gas chromatographic diagnosis, 39

Malaria, effect on energy expenditure, Gambian children, 102

Malnutrition

protein-calorie, maternal, effect on fetal and neonatal rat lung, 629

role, jejunal secretory response to *E. coli* enterotoxin, 228

Maturation: see Growth and development Meconium aspiration syndrome, surfactant lavage, piglet model, 625

Metalloporphyrins, effect on steroidogenesis, comparison, tin and zinc, rat adrenal,

Milk

human

anti-herpes simplex specific antibodies,

bone mineralization outcomes in preterm infants receiving, 583

histidine-rich glycoprotein in, 239

inhibition of HIV binding to CD4 receptor by, 22

tumor necrosis factor- α in, 29

Monoamine, cerebral and adrenal metabolism, growth-retarded rat fetus, 131

Monocyte, neonatal, defective production of interleukin-6 by, 18

Mononuclear cells, granulocyte-CSF and IL-3 expression from, comparison, adult, neonate, 574

Motor activity, during fasting and feeding, intestine, preterm infant, 587

Muscle, regulation of mammalian glucose transporters, 1

Myocardium

cholinergic-linked signaling response, agedependent change, sheep, 601

phosphodiesterase inhibitors, intropic responses, newborn, immature, and adult rabbit, 300

Na⁺K⁺-ATPase, renal activity, prolactin effect, neonatal rat, 207

Natural killer cell, decreased activity, very low birth weight infants, 376

Necrosis, intestinal, platelet activating factor role, rat, 428

Neonate

acid-base balance, varying degrees of acute hypoxia, swine, 112

 β -adrenergic receptors, prolonged β -agonist infusion effect, lamb, 462

cardiomegaly, dexamethasone-induced, rat, 359

- cerebral flow velocity waveforms, perinatal assessment, 649
- chronic hypoxemia, postnatal intestinal function during, lamb, 234
- cytopenia, pathogenesis, during sepsis, 574 diaphragm, glycogen content, increased work load effect, lamb, 349
- exogenous surfactant kinetics, after intratracheal instillation, piglet, 445
- extracorporeal membrane oxygenation, effect on blood flow distribution, lamb, 80
- full-term, plasma cholesterol and lathosterol levels, 396
- glycerol metabolism, effect of maternal diabetes and intrauterine growth retardation, 52
- glycogen content in diaphragmatic fibers, increased work load effect, neonatal lamb, 354
- hemoglobinopathy screening, DNA confirmation, dried blood specimens, 217
- hypercarbia, indomethacin effect on choroidal and retinal blood flow during, piglet, 127
- leukotriene D₄ role, GBS-induced pulmonary hypertension, lamb, 121
- monocyte, defective production of interleukin-6 by, 18
- pulmonary circulation, pulsatile perfusion effect, lamb, 349
- seizure, pancuronium bromide pretreatment effect, pig, 636
- sick, thrombin regulation, 391
- swallowing and breathing coordination, during suckle feeding, 619
- T cells, decreased granulocyte-macrophage colony-stimulating factor production by, 211
- triglyceride-fatty acid cycling, effect of maternal diabetes and intrauterine growth retardation, 52
- Nephron, Na⁺K⁺-ATPase activity, prolactin effect, neonatal rat, 207
- Nutritional status, maternal, fetal placental lactogen responses to changes in, sheep, 520
- Ontogeny, erythropoiesis during, 170 Osteocalcin, bone mineral content prediction and, very low birth weight infants, 181
- Oxygen arterial saturation, fetal monitoring, reflectance pulse oximetry, lamb, 266
 - arterial tension, effect of varying, neonatal swine, 112
- transcutaneous, premature and normal term infants, 73
- Oxygen free radical, role, pathogenesis of pial arteriolar dysfunction, rat, 640
- Pancreas, β-cells, regulation of mammalian glucose transporters, 1
- Pancuronium bromide, pretreatment, seizure-induced cerebral hyperemia, newborn pig, 636
- Pantothenate, role, prophylaxis of valproate hepatotoxicity, mouse, 419
- Pearson's marrow-pancreas syndrome, blood mitochondrial DNA deletions, 557
- Pentoxifylline
 - effect on acute pulmonary hypertension, piglet, 163
 - effect on cardiovascular manifestations, group B streptococcal sepsis, piglet, 596
 - -indomethacin pretreatment, group B streptococcal sepsis, piglet, 222

- Peptide, gastrointestinal, response, during fasting and feeding, preterm infant, 587
- Perfusion, pulsatile, pulmonary vascular resistance and, newborn lamb, 349
- Phosphodiesterase, inhibitors, inotropic responses, rabbit myocardium, 300
- Placenta, regulation of mammalian glucose transporters, l
- Placental lactogen, circulating, nutritional regulation, fetal sheep, 520
- Platelet activating factor, role, endotoxin and hypoxia-induced intestinal necrosis, rat. 428
- Platelet-derived growth factor, localization, during fetal lung development, rat, 323
- Prematurity: see also Infant, preterm airway structure-function, lamb, 157
- lung mechanics, time dependence of, lamb, 276
- surfactant therapy with ventilation, surfactant distribution and lung compliance after, rabbit lung, 270
- Prostaglandin
 - cAMP accumulation and, rat perinatal lung fibroblast, 344
 - effect on mucus gel layer thickness, developing rat, 193
- Prostaglandin H synthase, effect on GBS, piglet lung and liver, 14
- Protein
 - hepatic, synthesis, developmental changes and fasting effect, suckling rat, 247
 - whole-body parameters, tracer comparison, premature infants, 95
- Proximal convoluted tubule, acidification, developmental changes, rabbit, 411
- Pulse oximetry, reflectance, fetal lamb, 266

Respiration

- increased work load, glycogen response, neonatal diaphragm, lamb, 354
- rhythmic swallowing and, during suckle feeding, term neonate, 619
- training, preterm infants, 613
- Respiratory syncytial virus, effect on reflex apnea, young lamb, 381
- Reye's syndrome, animal model, ibuprofen interaction with influenza infection and hyperammonemia, ferret, 258
- Riboflavin, oral supplementation, medium chain acyl-CoA dehydrogenase deficiency, 39
- Salmonella abortus equi, febrile response, carotid denervation effect, lamb, 107
- Sarcoplasmic reticulum, calcium pump, developmental regulation, rabbit heart, 474
- Seizure, cerebral blood flow changes during, pancuronium bromide pretreatment effect, newborn pig, 636
- Sepsis
 - cardiovascular manifestations, pentoxifylline effect, piglet, 596
 - group B streptococcus, combined pentoxifylline and indomethacin pretreatment, piglet, 222
 - neonatal cytopenias during, pathogenesis of 574
- Short stature, cartilage-hair hypoplasia, evaluation and growth charts for, 176
- SIDS: see Sudden infant death syndrome Skeletal alkaline phosphatase, bone mineral
- content prediction and, very low birth weight infants, 181

- Small intestine
 - postnatal function, alterations, chronic hypoxemia, newborn lamb, 234
 - regulation of mammalian glucose transporters, 1
- Sodium, ion transport, fetal distal lung epithelium, rat, 318
- Sodium-potassium, erythrocyte transport, cystic fibrosis, 425
- Steroidogenesis, metalloporphyrins and, rat adrenal, 196
- Streptococcus
- group B
 - capsule role, pulmonary hypertension, piglet, 386
 - cardiovascular manifestations, pentoxifylline effect, piglet, 596
 - cerebral arteriolar response, oxygen free radical role, rat, 640
 - leukotriene D₄ role, newborn lamb, 121 prostaglandin H synthase effect, piglet lung and liver, 14
- sepsis, combined pentoxifylline and indomethacin pretreatment, piglet, 222
- Stress, perinatal adaptation, capillary vs arterial plasma catecholamines, 579
- Stroke volume, heart rate fluctuations and, preterm infants, 117
- Suckle feeding, rhythmic swallowing and breathing during, term neonates, 619
- Sudden infant death syndrome cardiac R-R intervals, dynamic analysis,
- medium-chain acyl-CoA dehydrogenase deficiency and, G-985 mutation, 305
- mucosal immune response, trachea and duodenum, 372

Surfactant

- distribution, after surfactant therapy and ventilation, preterm rabbit lung, 270
- exogenous, short-term distribution kinetics, neonatal piglet, 445
- lavage, meconium aspiration syndrome, piglet, 625
- protein A, blood group A epitope contained in, 364
- therapy, ventilation with, preterm rabbit lung, 270
- T cells, decreased granulocyte-macrophage colony-stimulating factor production, human neonate, 211
- The American Pediatric Society and The Society for Pediatric Research, annual meeting abstracts, 3A
- Thrombin, inhibition, impairment, sick neonates, 391
- Thyroid hormone, myocardial adrenergic β receptor responsiveness, late gestation lamb, 468
- Thyroid hormone receptor, RNA ontogeny and, thyroxine treatment effect, rat kidney, 330
- Tissue, iron status, effect of *in utero* insulin exposure, fetal rat, 64
- Tissue factor apoprotein, expression, blood monocytes, during infection, infant, 567
- Tracer, comparison, whole-body protein parameters, premature infants, 95
- Trachea, immunoglobulin M response, SIDS victims, 372
- Transforming growth factor- α
 - gene expression, late-gestation fetal rat lung, 286
 - RNA ontogeny and, thyroxine treatment effect, rat kidney, 330
- Triacylglycerol, highly unsaturated, accumulation, early postnatal rat, 47

- Triglyceride-fatty acid, neonatal cycling, effect of maternal diabetes and intrauterine growth retardation, 52
- 3,5,3'-Triiodothyronine, source of T₃ sulfate, fetal rat tissues, 541
- 3,5,3'-Triiodothyronine sulfate, metabolism, fetal rat tissues, 541
- Tropoelastin, gene expression, pulmonary vasculature, rat, 280
- Tumor necrosis factor- α , early human milk,
- Tyrosinemia, type I, immunoblot analyses, 43
- Uridyltransferase, regional activity, rat brain, 512
- Valproate, hepatotoxicity, pantothenate and carnitine prophylaxis, mouse, 419
- Vitamin D, absorption, chronic cholestasis,
- Vitamin E, water-solubilized form, role, vitamin D absorption, chronic cholestasis, 146
- Water, loss, ontogeny of epidermal barrier to, perinatal rat, 308
- Wilson's disease, animal model, Long-Evans Cinnamon rat, 253