Pediatric Surgery

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Major Scientific Interests of the Group
1. Nutrition Therapy for Children
   1.1 Lipid metabolism after massive small bowel resection
   1.2 Analysis of lipid metabolism change after small bowel resection in mice
   1.3 Clinical research of trace elements’ deficiency in children
   1.4 Study of nutritional management for children with short bowel syndrome
2. Congenital Diaphragmatic Hernia
   2.1 Molecular mechanisms of pulmonary hypertension and lung hypoplasia in congenital
diaphragmatic hernia
   2.2 Analysis of clinical outcome of the patients with congenital diaphragmatic hernia
   2.3 Tissue engineering by mesenchymal stem cells for hypoplastic lung in congenital
diaphragmatic hernia
3. Pediatric Oncology
   3.1 Novel application of cytokines to intractable pediatric solid tumors
4. Pediatric Endoscopic Surgery
   4.1 The development of pediatric laparoscopic training simulator with objective evaluation
   system

Projects for Regular Students in Doctoral or Master’s Programs
1) Lipid Metabolism in Short Bowel Syndrome

Selected Publications
  factors of long-term complications in congenital diaphragmatic hernia: A single institution's experience. Asian J
3) Takayasu H, Hagiwara K, Masumoto K. Suppressed erythropoietin expression in a nitrofen-induced congenital


