



Figure S1: Experimental design for the DK NEC model. Mice were divided into four groups: Scramble Control, PEP1, NEC + Scramble, and NEC + PEP1. From postnatal day (P) 8 to P12, mice received every other day intraperitoneal (i.p.) injections of either scrambled peptide or PEP1 (15 mg/kg). At P14, the NEC challenge was induced by intraperitoneal injection of dithizone followed by oral gavage with *Klebsiella pneumoniae* after 6 hours. Control groups received normal saline i.p. followed by gavage with culture media.