

12th International Conference on

Pediatric Pathology & Laboratory Medicine

March 15-16, 2017 London, UK

([SRVXUH WR H[FHV V SKHQREDUELWDO QHJDWLYHO\ LQÀXHQFHF

Yu Yan
Jinan University, China

Phenobarbital is an antiepileptic drug that is widely used to treat epilepsy in a clinical setting. However, a long term of phenobarbital administration in pregnant women may produce side effects on embryonic skeletogenesis. In this study, we aim to investigate the mechanism by which phenobarbital treatment induces developmental defects in long bones. We first observed that phenobarbital treatment decreased chondrogenesis and inhibited the proliferation of chondrocytes in chick embryos. Phenobarbital treatment also suppressed mineralization in both *in vivo* and *in vitro* long bone models. Next, we established that phenobarbital treatment