



**Figure S4:** Comparison of the impact of intrinsic perioperative factors, metabolic load ( $M$ ) and cell death sensitivity ( $\beta_{ap}$ ) in rat and human for 33.3% resection, using the present model (A) with rat specific parameters from Cook et al. [8] and (B) with human specific parameters from Table 1. The two perioperative factors showed similar classification in the parameter space in both rat as well as human. The parameter subspace corresponding to suppressed mode enveloped the zone of normal recovery, and acts as a threshold beyond which the parameter changes may lead to liver failure in both rat and human liver regeneration.