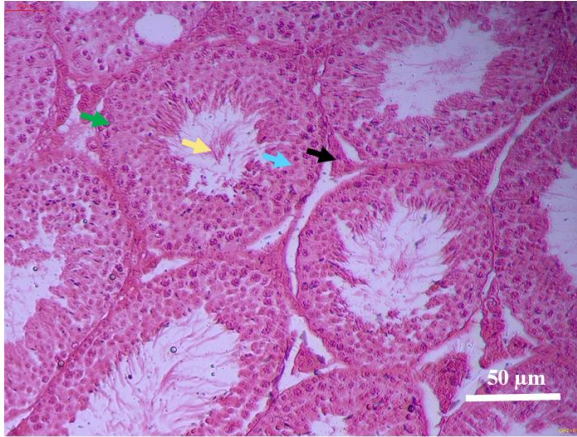
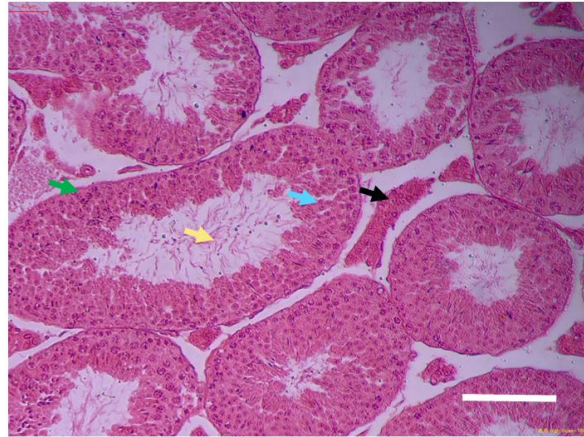


A**B**

Supplementary Fig. S1. Representative histological images of the lower-dose TGF- β 1 5 ng/mL (A) and RA 2 μ M (B) groups after busulfan-induced testicular injury. These panels complete the histological dose series shown in Fig. 3 while avoiding overcrowding of the main figure. Both groups showed modest epithelial improvement relative to BUS and followed the dose-related recovery pattern observed across histological and morphometric endpoints. Colored arrows indicate spermatogonia (green), spermatocytes (blue), spermatids (yellow), and Leydig cells (black) (magnification: $\times 40$; scale bar: 50 μ m).