**Figure S1.** Forest plots for differential gene expressions of kynurenine pathway across studies of each IBD subtype as compared to non-IBD controls. \*, the *p* value for effect size (ES) is less than 0.05. SMD, standardized mean difference; CI, confidence interval.

**Figure S2.** Forest plots for differential gene expressions of serotonin pathwayacross studies of each IBD subtype as compared to non-IBD controls. \*, the *p* value for ES is less than 0.05. SMD, standardized mean difference; CI, confidence interval.