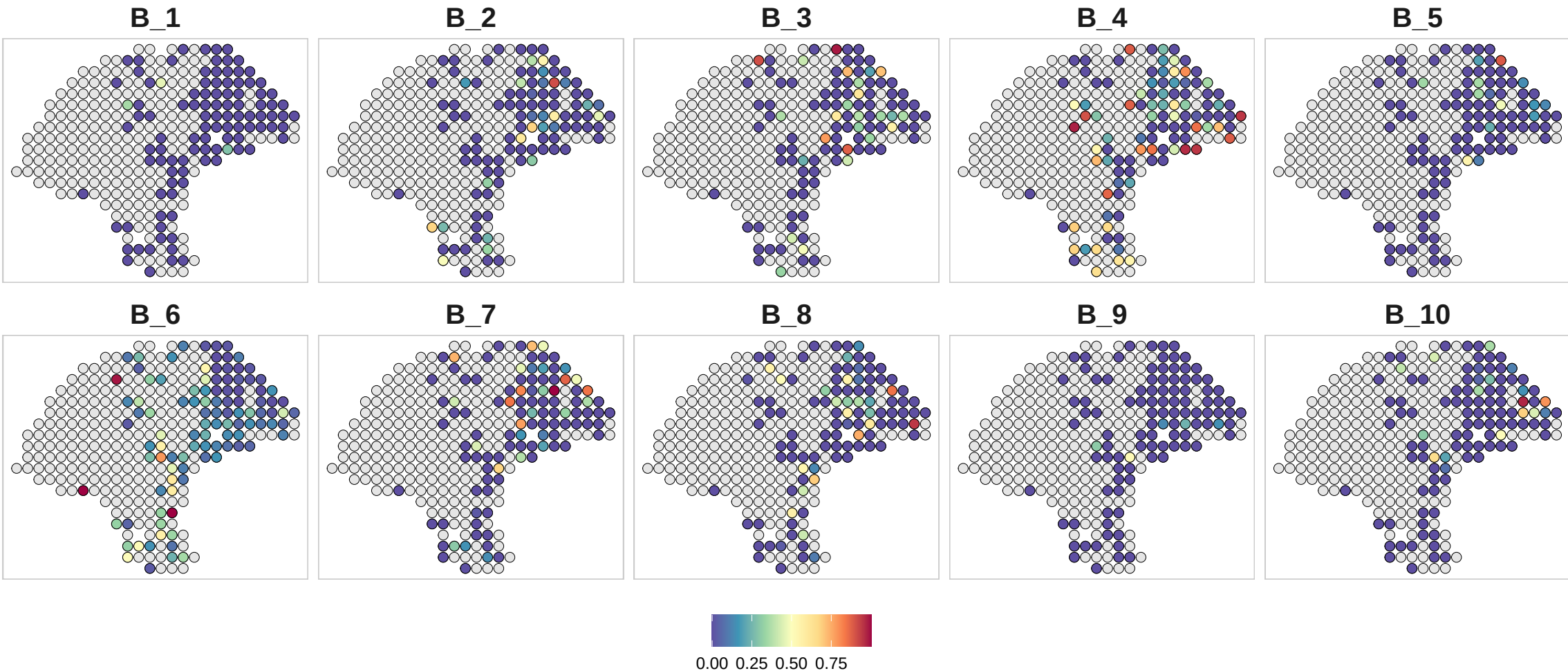B_alpha_heatmap