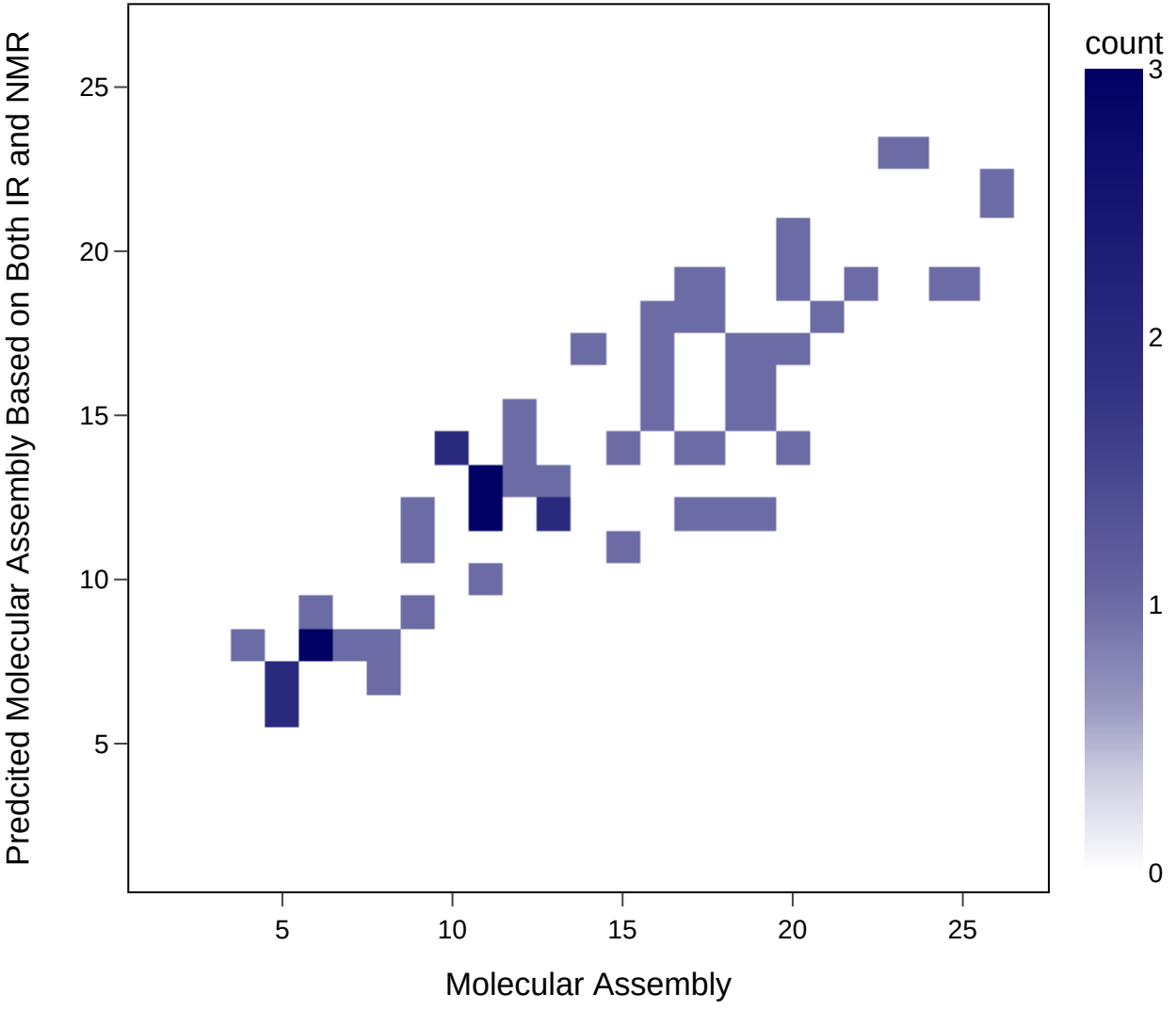experimental inference of assembly index (both IR and NMR)