## Supplementary Information

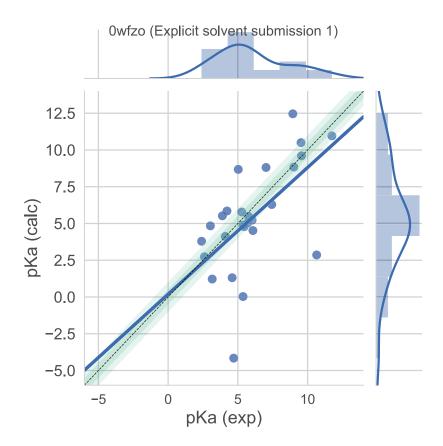


Fig. 1 Supplementary Figure. Plot of the hungarian analysis scheme and experimental pKa values. Plot courtesy of the organizers https://github.com/MobleyLab/SAMPL6/blob/master/physical\_properties/pKa/analysis/analysis\_of\_typeI\_predictions/analysis\_outputs\_hungarian/pKaCorrelationPlots/Owfzo.pdf

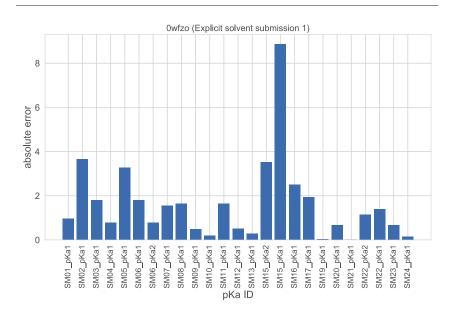


Fig. 2 Supplementary Figure. Plot of the absolute error for each macroscopic pKa being considered. Picture courtesy of the organizers https://github.com/MobleyLab/SAMPL6/blob/master/physical\_properties/pKa/analysis/analysis\_of\_typeI\_predictions/ analysis\_outputs\_closest/AbsoluteErrorPlots/Owfzo.pdf

Table 1 Supplementary Table. Calculated pKa and  $\varDelta$  G (kcal/mol) for all the microstate pairs considered. Attached csv file