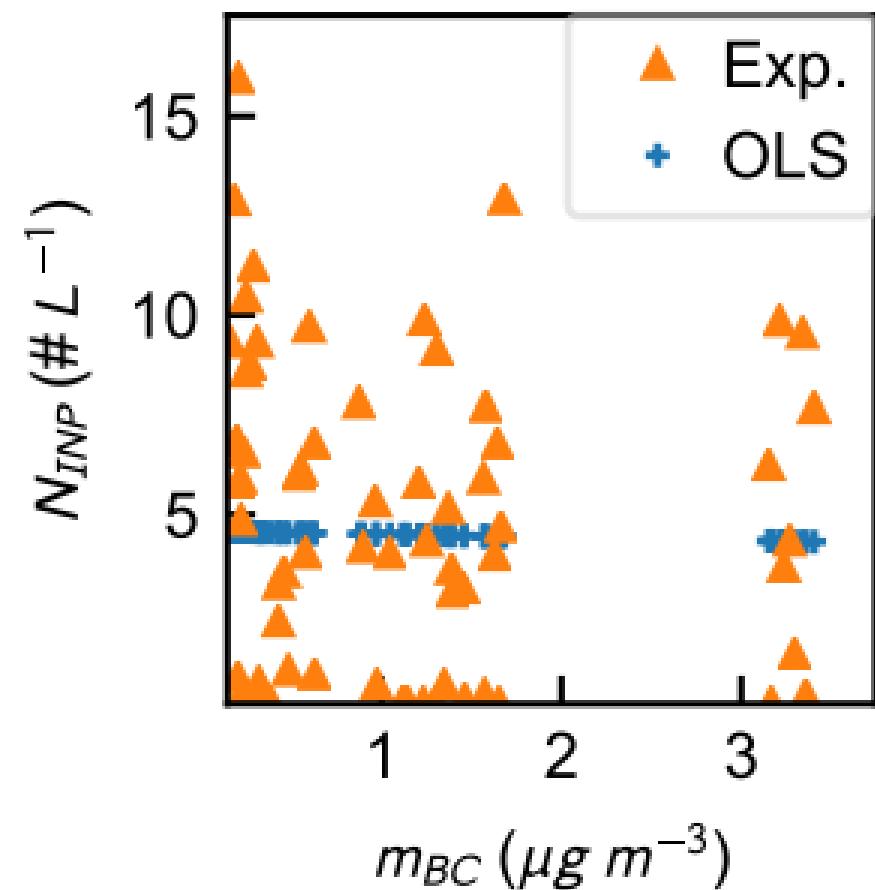


(a) Clean, $r = 0$



(b) Pollution, $r = 0$

