



**Fig. S2. (A) No correlation between Psoriasis Area and Severity Index (PASI) and mean unweighted UniFrac distance between each patient with psoriasis compared with all controls in pharynx (Spearman's  $R=0.17$ ,  $p>0.05$ ). (B) No correlation between PASI and mean unweighted UniFrac distance between the lesional skin of each patient with psoriasis compared with skin in all controls (Spearman's  $R=-0.13$ ,  $p>0.05$ ).**