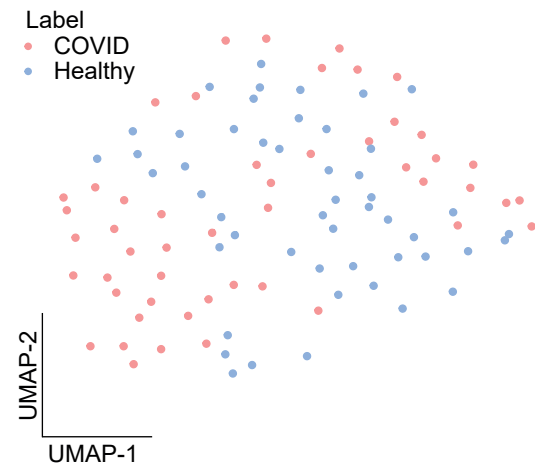
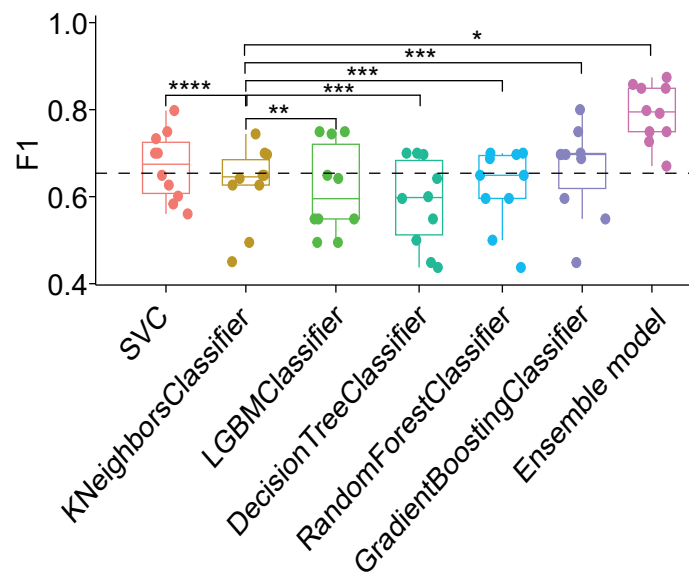
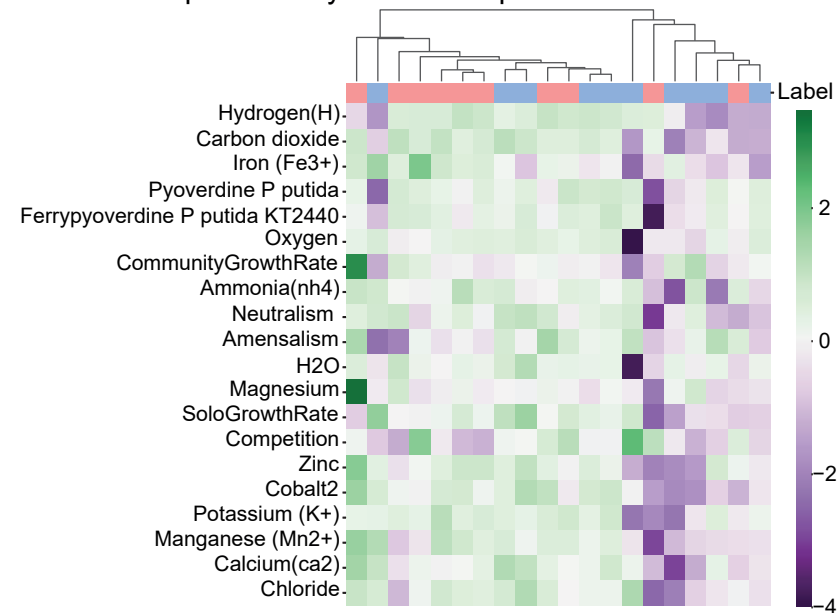
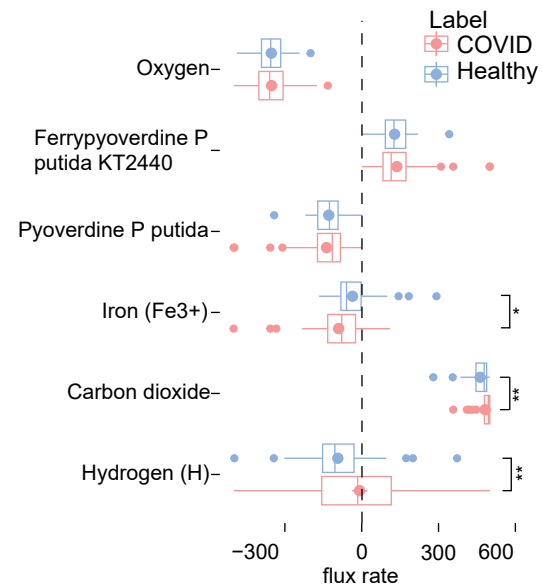
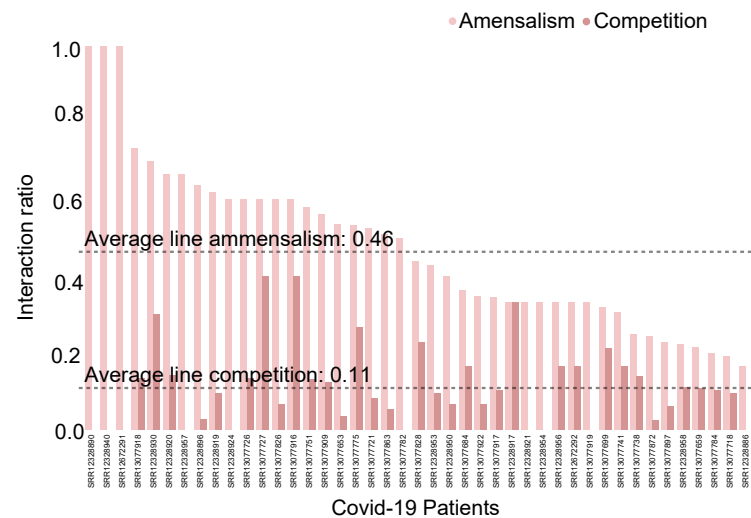


A. Patient-level community features**B. Machine learning predictive performance****C. Feature importance by SHAP interpretation: Ensemble model****D. Patient level exchange reactions****E. Community interaction ratio in Covid patients****F. Community interaction ratio in healthy subjects**