**Collected from Uniprot, NCBI, QSPProd**

**Negative dataset, 2420 peptides (10X positive data)**

**Samples with MBEC value from positive peptide set**

**Positive dataset, 242 peptides**

**Collected peptides from BAAMP and APD**

**10-fold cross-validation to choose model**

***Stratified sampling***

**Test peptide set ( ~200K)**

**Motif based feature added.**

**80% Training data**

**Feature extraction – AAC, DPC, CTD**

**20% Test data**

**Prediction model**

Model validation

Performance matrix evaluation

**Predicted MBEC / MBIC value for peptides from model**

**AntiBiofilm peptides classified from the classifier**

**Regression model trained with MBEC/ MBIC values of peptides**

**80% Training data**

**20% Test data**