

# Supplementary Materials

## De-novo design and in vitro testing of the antimicrobial peptides against Gram-negative bacteria

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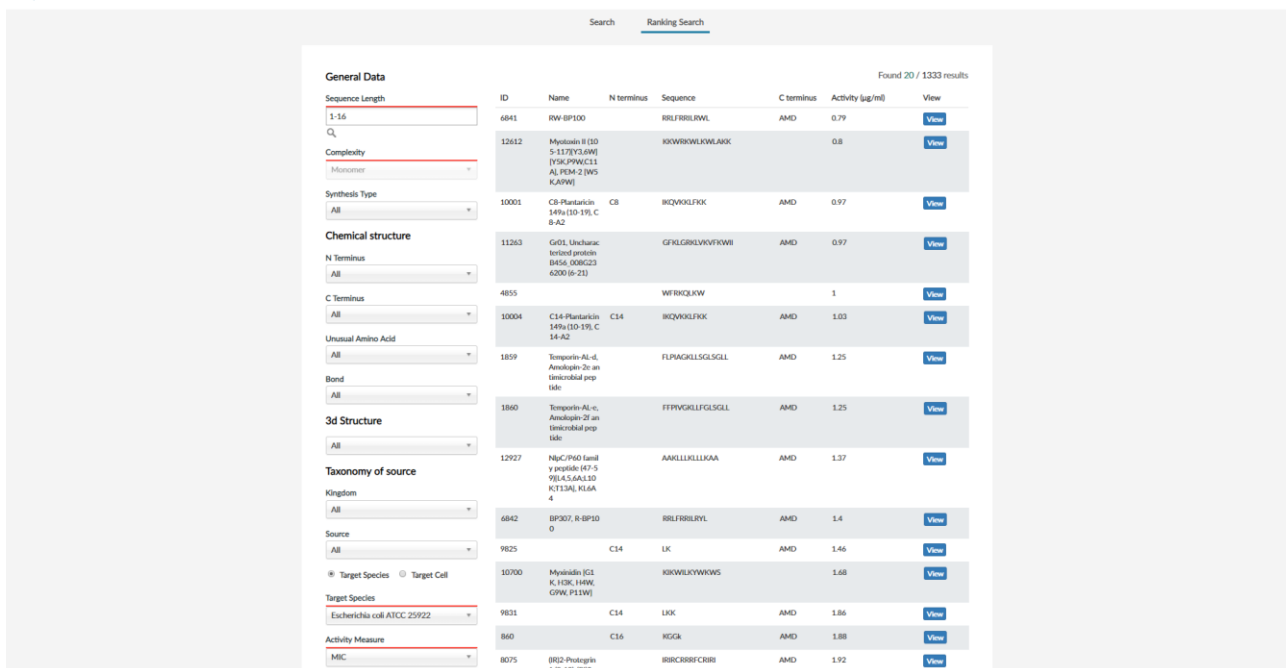
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### Content

1. Screenshot of DBAASP Ranking Search Page (**Figure S1**)
2. Amino acid distribution used in the sequence generation algorithm (**Table S1**)



**Figure S1.** Screenshot of DBAASP Ranking Search Page for peptides with length <17 for which there are data for activity against *Escherichia coli* ATCC 25922.

As we can see, the first ranking peptide has MIC=0.79. At the same time for peptide SP15D MIC=0.39-0.78.

**Table S1.** Amino acid distribution for the set of linear, ribosomal AMPs from the data of DBAASP.

Amino Acid	Frequency
C	0.909
N	3.169
Q	2.484
S	5.040
T	2.766
D	2.198
E	2.593
K	11.607
R	5.403
A	9.333
G	12.449
I	7.624
L	11.232
M	1.295
P	4.855
V	6.091
F	4.889
H	2.503
W	1.734
Y	1.633

