# Viral Dark Matter: Protein Structure Prediction Update

Cathrine Aivati 5/10/12

## **Progress**

In process of optimizing window selection

Selection "by hand" is difficult/inefficient

#### "Windows"

310003126

MKRVLITGGAGFIAHHLIGQILETTDWEVITLDRLDYSGNLNRLHDLMLSFDPEVRKRVRVVHHDL KAELNPMVCREIGNVDYILHLAAGSHVDRSIEYPLEFVMDNVVGTCNILDFARTQKENLERFIYFST DEVFGPAPDGIKYKENDRYNSTNPYSASKAGGEELAVAYENTYGLPIYITHTMNVFGERQHPEKFIP MCIRKVRNGESVTIHSDSTKTVPGSRHYIHAEDVASAILFLVNHEGGFEPTWGNAKCPKFNIVGAE ELNNLELAQIIAESQGKELKYEMVDFHSSRPGHDLRYALDGDKMKELGWVPAKSVRERISEVTRW TLANERWL

### **PEPFold**

Does not consistently generates PDB files

Arbitrary (server issues?)

#### **Future**

Create a utility that selects windows that meet certain criteria:

- 36 length maximum
- does not "break up" secondary structures