# VBRC Base By Base: Import genome sequences from Virology.ca viral databases

**Nick Tang**


## Abstract

**Viral Bioinformatic Resource Centre**

- **Provide databases of viral genomic information.**
  - Please check the ***Organisms*** menu to see which viruses we support: we're now focusing on large DNA viruses
  - The VOCs (Virus Orthologous Clusters) database is at the heart of our system.
  - The database links directly to integrated tools for comparative analyses.
  - VOCs sorts genes into ortholog clusters (e.g. RNA polymerase) to simplify data retrieval.
- **Provide easy access to the genes, gene families, and genomes of the different virus families.**
  - via a unique series of powerful Java tools that support multiple computer platforms (see ***VBRC Tools*** menu).
  - design and build software to tackle specific bioinformatics/virology problems, often in collaboration with virologists.
- **Rally the research community to provide expert curation of these viral genomes by:**
  - Adding value to GenBank sequences through enhancing and updating genome annotations
  - Linking to research reviews/papers for the research community.
- **Collaborate with researchers to help on specific bioinformatics problems, e.g.**
  - Custom searches of the databases
  - Building new features into our tools
  - Help with genome annotation


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## Protocol

**Step 1.**
From the **"File"** menu, choose **"Add Sequences to Alignment"**.

**Step 2.**
**"From VOCs Database"**. Select the database and, from the list that appears, your genomes of interest (hold down the *Apple key* (**Mac**) or *CTRL* (**PC**) to select multiple genomes).

**Step 3.**
Click **OK** to upload the sequences to your alignment.

(Note that these sequences will be unaligned).

**Step 4.**
To view the file you just created, close the current alignment and open your new file.