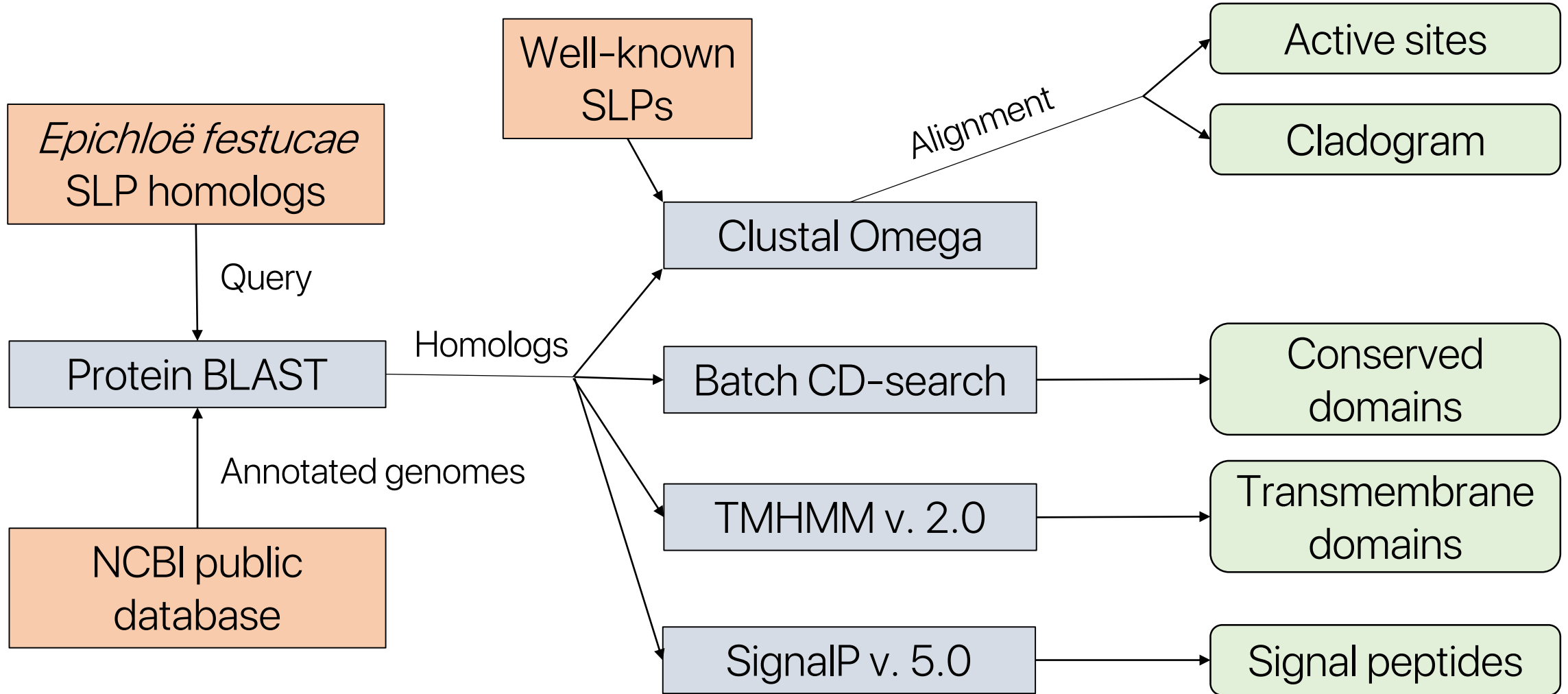


# Bioinformatic screening for subtilisin-like peptidases (SLP) in dikaryotic fungi

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BGRS/SB-2020, distance format

# Study design



# Conclusions

Analysis of 42 fungal genomes revealed homologs from **all 4 major families** of SLPs:

- Kexin and proteinase K homologs were present in the **vast majority** of studied species.
- Pyrolysin homologs are found in the **half** of observed species.
- Homologs of OSP (oxidatively stable protease) family proteins are relatively **scarce** throughout species of higher fungi.

The obtained homologous AA sequences retain **intact** conserved domains and active sites.

Number of SLP homologs of a particular species is mostly determined **by ecology**, not by taxonomy: the richest variety of SLPs is found in **pathogenic** and **parasitic** fungi.