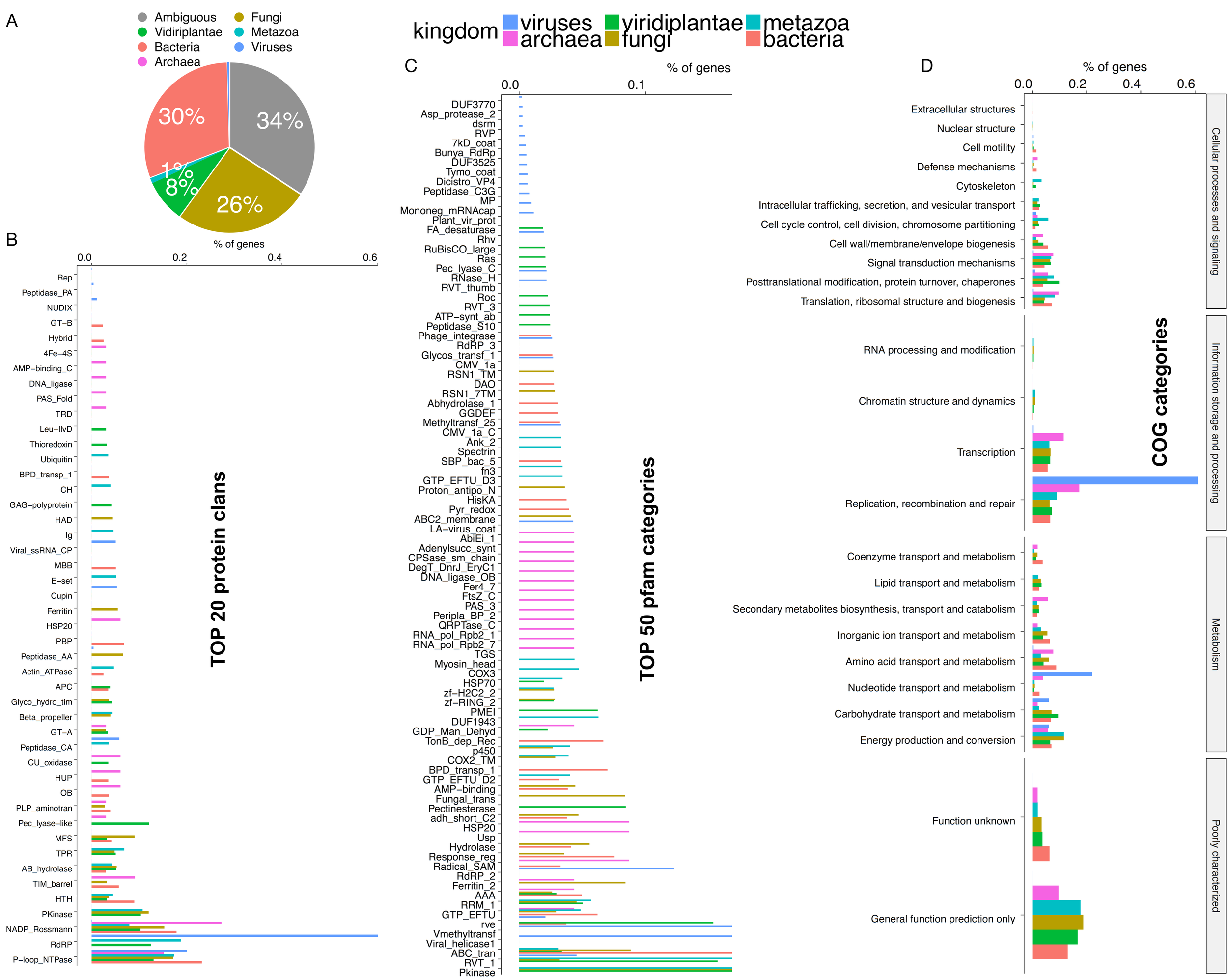


| Kingdom | Family | Species | Allergen | pfam |
|---|---|---|---|---|
| Fungi | Aspergillaceae | Aspergillus fumigatus | Asp f 12, Asp f 16, Asp f 22.0101 | pfam00113, pfam03952, pfam00722, pfam00183 |
| Fungi | Aspergillaceae | Aspergillus niger | Asp n 14, Asp n 25 | pfam14310, pfam01915, pfam00933, pfam00328 |
| Fungi | Aspergillaceae | Aspergillus oryzae | Asp o 21 | pfam00128 |
| Fungi | Aspergillaceae | Penicillium citrinum | Pen c 19, Pen c 22 | pfam06723, pfam00012, pfam00113, pfam03952 |
| Fungi | Aspergillaceae | Penicillium oxalicum | Pen o 18 | pfam05922, pfam00082 |
| Fungi | Cladosporiaceae | Cladosporium herbarum | Cla h 5, Cla h 7, Cla h 10 | pfam00171, pfam00258, pfam06723, pfam00012 |
| Fungi | Malasseziaceae | Malassezia sympodialis | Mala s 10 | pfam06723, pfam00012 |
| Fungi | Pleosporaceae | Alternaria alternata | Alt a 3, Alt a 10, Alt a 11 | pfam00171, pfam06723, pfam00012, pfam00113, pfam03952 |
| Viridiplantae | Asteraceae | Taraxacum officinale | Tar o RAP | pfam00407 |
| Viridiplantae | Betulaceae | Alnus glutinosa | Aln g 1 | pfam00407 |
| Viridiplantae | Chenopodiaceae | Chenopodium album | Che a 1 | pfam01190 |
| Viridiplantae | Cupressaceae | Chamaecyparis obtusa | Cha o 1 | pfam00544 |
| Viridiplantae | Cupressaceae | Cryptomeria japonica | Cry j 1 | pfam00544 |
| Viridiplantae | Cupressaceae | Juniperus ashei | Jun a 2 | pfam17181, pfam00295 |
| Viridiplantae | Fagaceae | Castanea sativa | Cas s 1 | pfam00407 |
| Viridiplantae | Oleaceae | Ligustrum vulgare | Lig v 1 | pfam01190 |
| Viridiplantae | Oleaceae | Syringa vulgaris | Syr v 3 | pfam00036, pfam13499, pfam13405, pfam13833 |
| Viridiplantae | Poaceae | Holcus lanatus | Hol l 1 | pfam03330, pfam01357 |
| Viridiplantae | Poaceae | Phleum pratense | Phl p 11.0101, Phl p 13 | pfam00295, pfam01190, pfam03330, pfam01357, pfam00235 |
| Metazoa | Blattoidae | Periplaneta americana | Per a 3 | pfam00372, pfam03723 |
| Metazoa | Echimyopodidae | Blomia tropicalis | Blo t 11 | pfam12128, pfam01576 |
| Metazoa | Pyroglyphidae | Dermatophagoides farinae | Der f mag29 | pfam06723, pfam00012 |

**Fig. S5**