

1.2 - Clans and Domain Comparisons

Go to the Pfam home page you bookmarked earlier.

Move your mouse pointer over the "Browse by" menu and select clans from the drop-down menu.

This page gives a list of Pfam Clans. Scroll down until you find the Immunoglobulin superfamily clan.

Question: How many Pfam-A families are in the Ig Superfamily Clan ?

Question: How many domains are matched by the Ig Superfamily Clan ? (Look at the size of each family).

Now go to the V-set Family. From this page, select the structure 1o7s from the list of PDB identifiers in the database references section.

Now click the SCOP|CATH|Pfam button.

This page acts a portal, retrieving domain definitions from SCOP and CATH and then displaying the results along side the Pfam domain definitions.

Question: How many domains have been identified by each database on the sequence? Are the domains the same ?

Now go to the family annotation page for S-adenosylmethionine synthetase, N-terminal domain. Repeat the domain comparison for the structure 1mxa.

Question: Are the domains the same? Write a brief description of what you see.

It may be useful to visualise the domain on the structure as well as on the sequence.

End of section 2. [Next section](#)