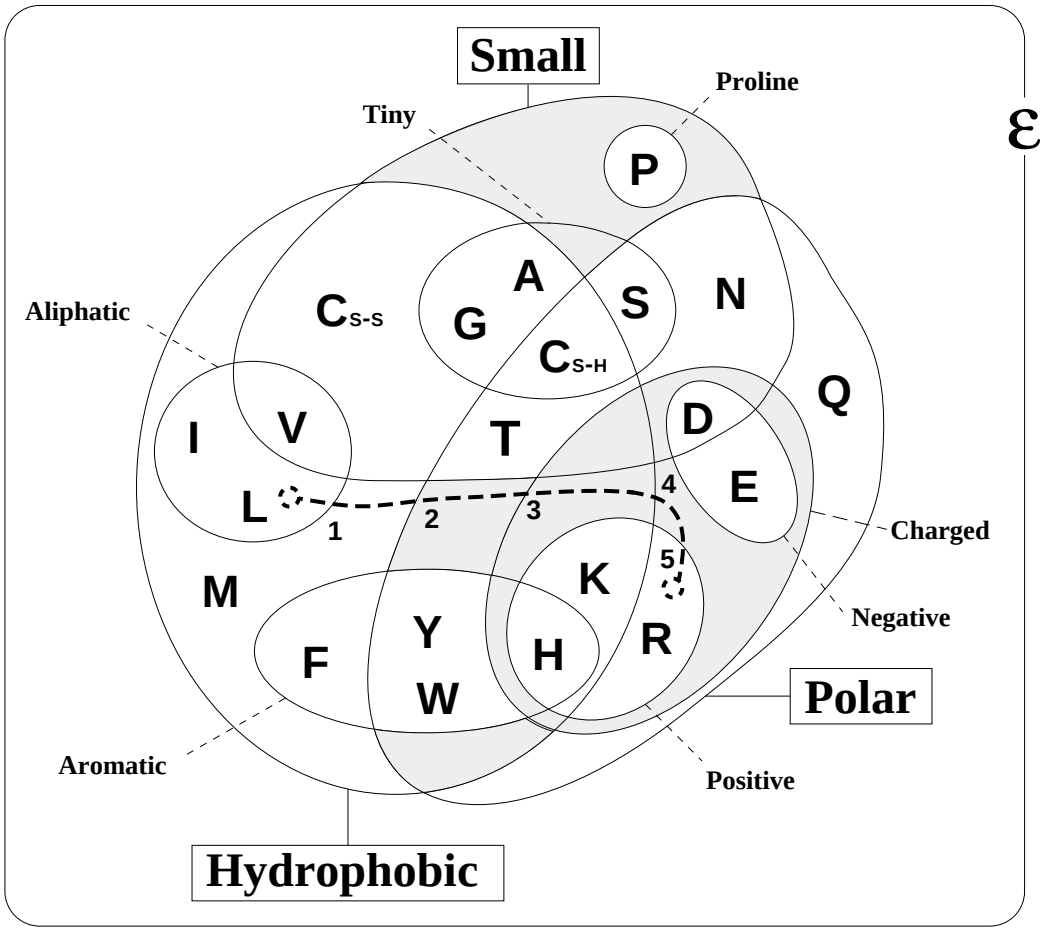

Figure 1a

```
        ILVCAGMFYWHKREQDNSTPBZXΔ

1       ●●●●●●●●●●●OOOOOO●OOO●●   Hydrophobic
2       OOOOOOOO●●●●●●●●●●●O●●●●   Polar
3       OO●●●●OOOOOOOOO●●●●●OO●●   Small
4       OOOOOOOOOOOOOOOOOOO●OO●●   Proline
5       OOOO●●OOOOOOOOOOOO●OOOO●●  Tiny
6       ●●●OOOOOOOOOOOOOOOOOOO●●   Aliphatic
7       OOOOOOO●●●●OOOOOOOOOOO●●   Aromatic
8       OOOOOOOOOO●●●OOOOOOOOO●●   Positive
9       OOOOOOOOOOOOO●O●OOOOOO●●   Negative
10      OOOOOOOOOO●●●●O●OOOOOO●●   Charged
```

Figure 1b