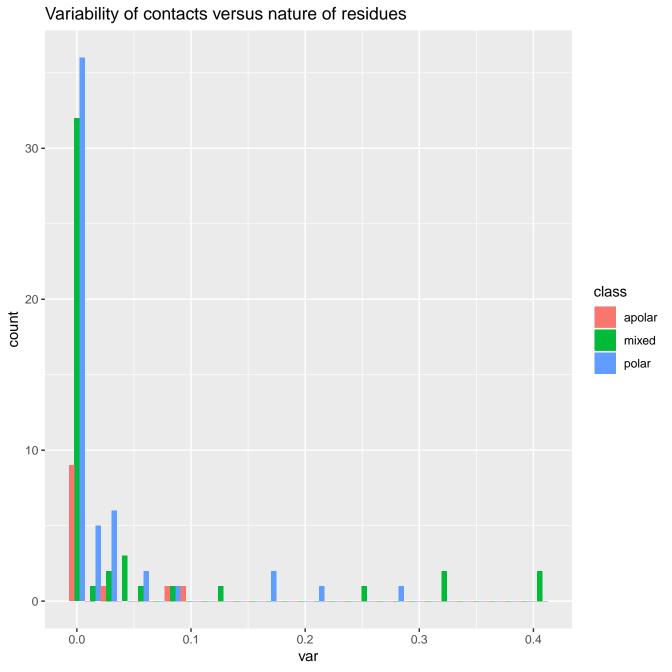
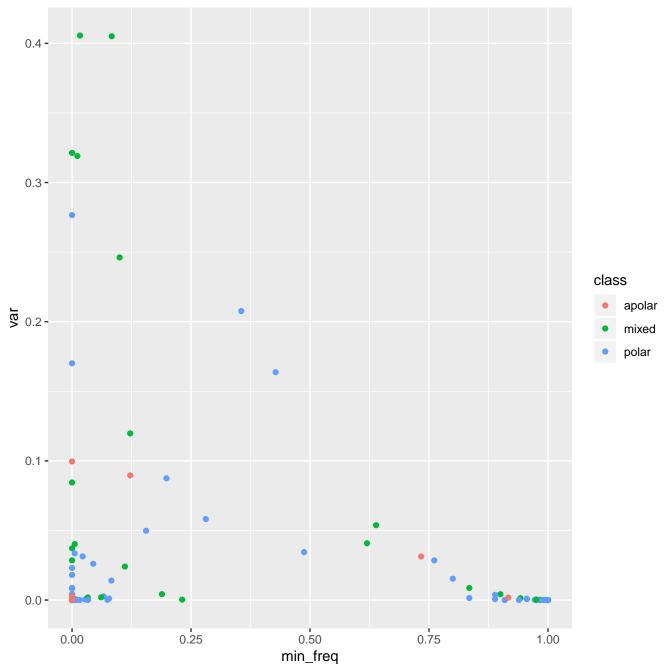
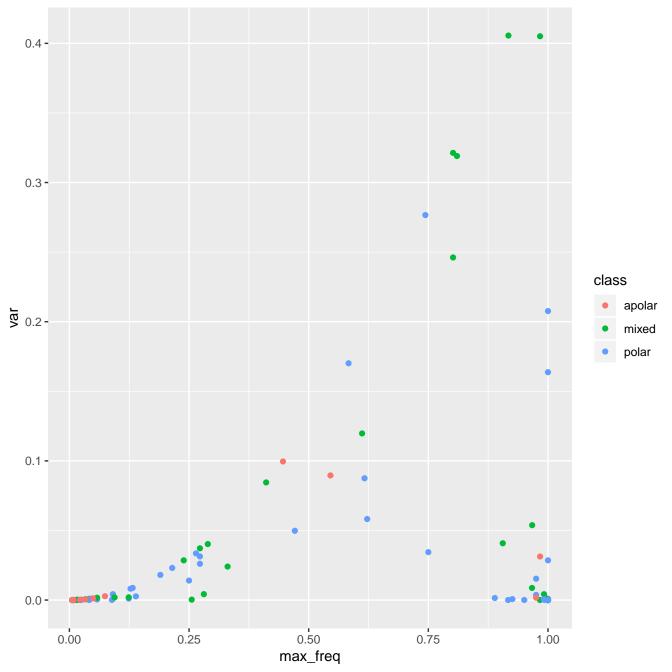


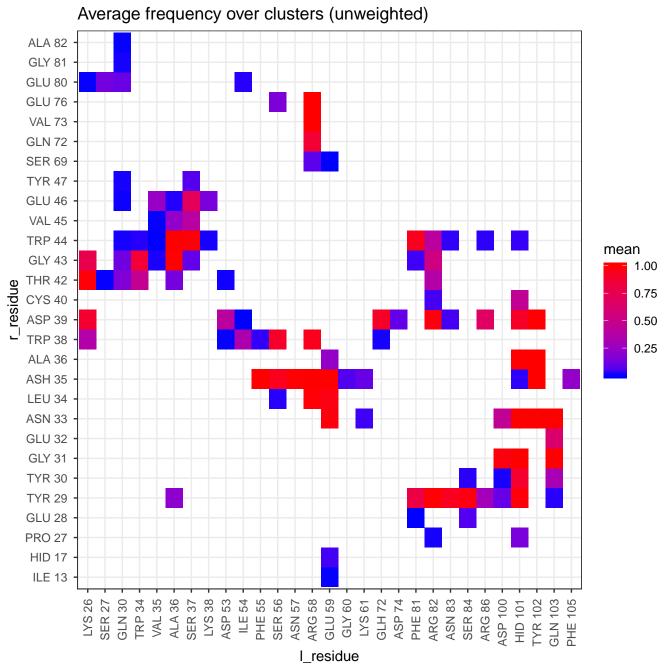
Variance of the contact frequency over clusters **ALA 82 GLY 81 GLU 80 GLU 76** VAL 73 **GLN 72 SER 69** TYR 47 **GLU 46** VAL 45 **TRP 44** var **GLY 43** 0.4 THR 42 r_residue 0.3 CYS 40 ASP 39 0.2 **TRP 38** 0.1 ALA 36 0.0 ASH 35 LEU 34 **ASN 33 GLU 32 GLY 31** TYR 30 **TYR 29 GLU 28 PRO 27** HID 17 **ILE 13** LYS 26 SER 27 GLN 30 ALA 36 SER 37 ASP 53 PHE 55 GLU 59 **GLY** 60 ASP 74 SER 56 ASN 57 ARG 58 LYS 61 GLH 72 **ARG 82 ASN 83 SER 84** ARG 86 **ASP 100** HID 101 TYR 102 VAL 35 LYS 38 **ILE** 54 PHE 81 I_residue







Variability of contacts weighted by its max frequency versus nature of residues 40 -30 class apolar mixed polar 10-0 -0.0 0.1 0.2 0.3 0.4 weighted_var



Variance * Unweighted average **ALA 82 GLY 81 GLU 80 GLU 76** VAL 73 **GLN 72 SER 69** TYR 47 **GLU 46** VAL 45 TRP 44 product **GLY 43** 0.20 THR 42 r_residue CYS 40 0.15 ASP 39 0.10 **TRP 38** 0.05 ALA 36 0.00 ASH 35 LEU 34 **ASN 33 GLU 32 GLY 31** TYR 30 TYR 29 **GLU 28** PRO 27 HID 17 **ILE 13** LYS 26 SER 27 GLN 30 ALA 36 SER 37 SER 56 ARG 58 GLU 59 GLY 60 **ASN 83** ASN 57 **GLH 72** ASP 74 PHE 81 **ARG 82 SER 84** ARG 86 ASP 100 **TRP 34** VAL 35 LYS 38 ASP 53 **ILE 54** LYS 61 HID 101 PHE 55 I_residue

