

**Supplementary Table S5: Jaccard coefficients between sets of edges in residue interaction networks obtained using different methods.** Jaccard similarity coefficient for two sets  $A$  and  $B$  is defined as  $J(A, B) = |A \cap B| / |A \cup B|$ . Values over 70% are in bold face and marked with an asterisk.

		$C_\alpha$					$C_\beta$				
		2	4	6	8	10	2	4	6	8	10
$C_\alpha$	4	39.3									
	6	22.9	58.8								
	8	13.7	35.0	59.3							
	10	9.0	23.1	38.9	65.3						
$C_\beta$	2	1.7	2.4	1.6	0.9	0.6					
	4	45.0	59.0	46.1	27.8	18.3	4.1				
	6	22.8	57.9	<b>80.5*</b>	57.8	38.2	2.1	48.0			
	8	14.2	36.3	61.2	<b>77.2*</b>	61.3	1.3	29.8	62.1		
	10	9.2	23.4	39.4	65.7	<b>84.6*</b>	0.9	19.2	39.8	64.0	
All	2	<b>90.7*</b>	41.1	25.1	15.2	10.1	2.4	47.9	25.8	16.2	10.5
	3	54.6	51.8	42.4	27.0	18.1	2.4	53.4	44.6	28.9	18.8
	4	27.0	62.7	<b>73.1*</b>	50.3	34.0	1.8	49.7	<b>76.2*</b>	53.7	34.8
	5	21.1	52.1	<b>77.0*</b>	62.2	43.0	1.4	41.8	<b>77.6*</b>	66.5	44.2
	6	16.9	43.5	<b>70.3*</b>	<b>71.6*</b>	52.3	1.1	34.3	68.9	<b>74.3*</b>	53.9
All+r	0.5	30.8	67.5	67.6	44.4	29.8	2.1	53.3	<b>71.1*</b>	47.2	30.5
	1	26.0	62.0	<b>74.8*</b>	51.8	35.0	1.8	50.2	<b>78.8*</b>	55.3	35.8
	1.5	23.1	56.8	<b>78.6*</b>	57.4	39.1	1.6	45.8	<b>80.2*</b>	61.6	40.1
	2	20.7	52.1	<b>77.7*</b>	62.8	43.2	1.4	41.6	<b>78.1*</b>	67.1	44.3
	2.5	18.7	47.8	<b>75.3*</b>	67.8	47.5	1.3	37.8	<b>74.2*</b>	<b>71.6*</b>	48.8
		All				All+r					
		2	3	4	5	6	0.5	1	1.5	2	2.5
All	3	59.4									
	4	28.8	51.1								
	5	22.5	40.1	<b>78.4*</b>							
	6	18.3	32.5	63.6	<b>81.2*</b>						
All+r	0.5	33.3	58.9	<b>87.7*</b>	68.7	55.8					
	1	28.1	50.5	<b>92.7*</b>	<b>81.3*</b>	66.0	<b>84.7*</b>				
	1.5	25.0	44.8	<b>86.1*</b>	<b>91.2*</b>	<b>74.0*</b>	<b>75.6*</b>	<b>89.3*</b>			
	2	22.6	40.5	<b>77.9*</b>	<b>95.5*</b>	<b>82.1*</b>	68.0	<b>80.4*</b>	<b>90.3*</b>		
	2.5	20.5	36.7	<b>70.4*</b>	<b>89.6*</b>	<b>90.8*</b>	61.5	<b>72.7*</b>	<b>81.6*</b>	<b>90.6*</b>	