Supplementary Information

The data set employed for PCA analysis of the two proteins
5 included only the amino acid peaks whose characteristic
molecular fragment for the two proteins are summarized in Table
1. PCA loadings (not shown here in details) were consistent with
the total amino acid composition of Fn and HSA, and allowed to
distinguish the proteins on the basis of their overall amino acid
10 composition. Furthermore, Table 1 shows also that the relative
amino acid abundances allow to discriminate among the three Fn
modules I-III.

15 **Table 1**. The relative abundance of various amino acids (%) is reported
for HSA, and for Fn as well as for each of the three Fn epitopes (Type I,
Type II and Type III).

Amino acid	Fragments	HSA	Fn	Fn Type I	Fn Type II	Fn Type III
Ala	C_2H_6N	10.34	3.62	1.73	2.00	4.94
Cys	C_2H_6NS	5.91	2.96	9.62	8.00	0.14
Asp	$C_3H_6NO_2$	5.91	5.25	6.54	7.00	4.67
Glu	C_4H_6NO; $C_4H_8NO_2$	10.02	5.30	5.96	4.00	5.99
Phe	$C_8H_{10}N$; C_9H_8O	5.91	2.85	2.31	7.00	1.81
Gly	CH_4N	2.63	8.25	13.46	8.00	6.41
His	$C_4H_5N_2$; $C_4H_6N_2$; $C_5H_8N_3$	2.63	3.03	3.46	4.00	1.32
Ile	$C_5H_{12}N$	1.48	4.76	3.65	0.00	5.78
Lys	$C_5H_{10}N$	9.85	3.18	4.62	3.00	3.20
Leu	$C_5H_{12}N$	10.51	5.50	3.27	4.00	6.20
Met	C_2H_5S	1.15	1.20	2.69	2.00	0.49
Asn	C_3H_4NO; $C_3H_7N_2O$; $C_3H_6NO_2$; $C_4H_4NO_2$	2.79	4.61	4.62	9.00	3.62
Pro	C_4H_6N; C_4H_8N	3.94	8.58	1.92	4.00	9.54
Gln	C_4H_6NO	3.28	4.58	5.00	5.00	4.74
Arg	CH_3N_2; $C_2H_7N_3$; $C_4H_{10}N_3$; $C_4H_{11}N_3$; $C_5H_8N_3$; $C_5H_{11}N_4$	4.11	5.59	6.35	4.00	4.94
Ser	C_2H_6NO; $C_3H_3O_2$	4.60	6.90	4.62	7.00	9.47
Thr	C_4H_5O; C_3H_8NO	4.76	11.04	7.31	12.00	11.70
Val	$C_4H_{10}N$; $C_5H_7O^+$	6.90	6.68	4.04	1.00	10.03
Trp	C_9H_8N	0.33	1.52	3.65	2	1.25
Tyr	C_7H_7O	2.96	4.60	5.19	7	3.76