Supporting Information

Physico-chemical properties of functionally adhesive spider silk nanofibres

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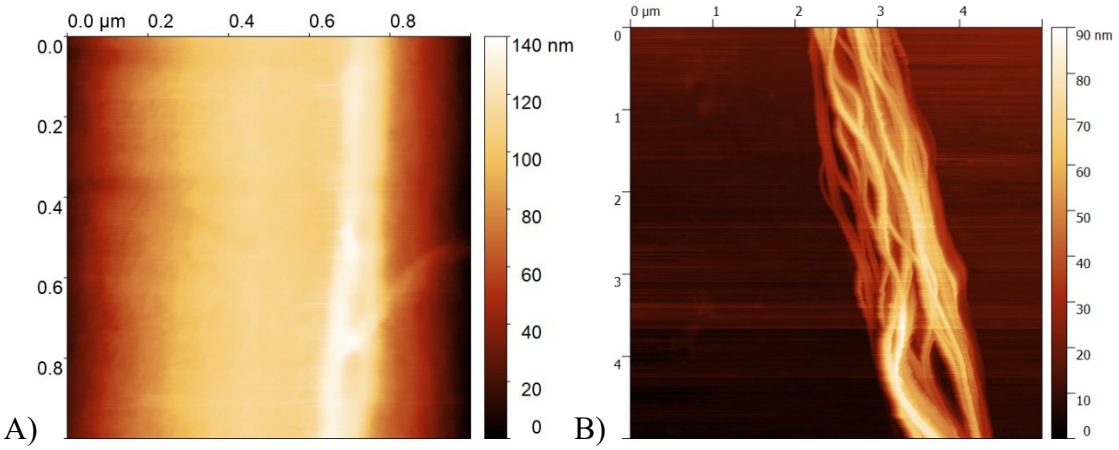

Figure S1: A) *Badumna longinqua* silk analyzed by AFM with an OTESPA tip B) *Deinopis subrufa* silk analyzed by AFM with a ScanAsyst tip.

Tab. S1: Data of GC-MS analysis. BSA: bovine serum albumin (control)

Amino Acid [%]	*D. subrufa* cribellate silk	*B. longinqua* cribellate silk	*N. plumipes* MA silk	*U. plumipes* cribellate silk	*U. plumipes* MA silk	BSA (1)	BSA (2)	BSA (3)	BSA (4)
alanine	18.5	13.6	29.9	24.1	22.6	7.6	7.2	7.1	6.7
glycine	13.7	8.3	17.6	5.7	16.1	1.7	1.5	1.4	1.2
valine	0.9	4.0	0.8	4.9	2.7	5.9	6.5	6.4	6.0
leucine	0.4	2.5	1.9	3.4	3.9	8.9	10.9	10.8	10.0
isoleucine	0.5	4.2	0.4	4.1	1.5	1.9	2.2	2.1	2.0
proline	1.1	1.8	1.2	2.0	7.8	3.5	5.8	6.0	5.9
methionine	0.3	0.5	0.2	0.2	0.6	0.7	0.5	0.5	0.5
serine	10.0	29.3	6.8	25.8	15.4	4.3	3.0	3.5	3.9
threonine	2.4	5.5	1.5	1.2	0.6	4.9	3.1	5.6	7.0
phenylalanine	0.5	2.4	0.6	2.0	0.4	3.8	3.4	3.2	3.0
aspartic acid	3.0	6.1	2.4	6.0	2.8	11.7	13.9	13.1	12.4
t-hydroxy-proline	1.0	0.3	0.1	2.4	0.6	ND	ND	ND	ND

cysteine	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.7	1.2
glutamic acid	35.8	16.4	19.0	13.4	13.5	16.2	15.2	14.2	13.0
asparagine	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.2	0.2
lysine	1.5	1.6	0.3	1.1	0.4	12.1	10.7	10.1	11.6
glutamine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arginine	2.0	0.7	4.1	1.4	1.4	3.7	2.4	3.1	2.5
histidine	0.2	0.0	0.0	0.5	0.1	3.5	1.9	1.9	2.1
p-Tyr	8.3	2.6	13.1	1.5	9.1	5.2	4.5	4.2	4.8
tryptophan	0.0	0.0	0.0	0.2	0.4	0.2	0.3	0.0	0.2
cystine	0.0	0.0	0.0	0.0	0.1	3.9	6.5	5.9	5.6