Supplementary information

Table 5:

a) A summary of the statistical data comparing peptide P_{11}-8 to collagen control gels.

b) Approximate cell numbers contained in peptide P_{11}-8 gel matrices and estimated cell population doublings at the end of the cell culture experiments. Data calculated using the equation: number of cells = ATPLite CPS / 15.689

a)

Cells per well	Day 0	Day 14
500	NS	NS
5000	NS	Lower ($p<0.05$)
50000	Higher ($p<0.05$)	Lower ($p<0.05$)

b)

	Calculated Cell Number	Estimated Cell Population Doublings
P_{11}-8 500 cells.well^{-1}	2.4×10^3	2
P_{11}-8 5000 cells.well^{-1}	1.3×10^6	8
P_{11}-8 50000 cells.well^{-1}	1.9×10^6	5
Collagen 500 cells.well^{-1}	1.1×10^6	11
Collagen 5000 cells.well^{-1}	4.1×10^6	10
Collagen 50000 cells.well^{-1}	5.3×10^6	7

Table 6:

a) A summary of the statistical data comparing peptide P_{11}-12 to collagen control gels.

b) Approximate cell numbers contained in peptide P_{11}-12 gel matrices and estimated cell population doublings at the end of cell culture experiments. Data calculated using the equation ; number of cells = ATPLite CPS / 15.689

a)

Cells per well	Day 0	Day 14
500	NS	NS
5000	NS	Lower ($p<0.05$)
50000	Higher ($p<0.05$)	Lower ($p<0.05$)

b)

	Calculated Cell Number	Estimated Cell Population Doublings
P_{11}-12 500 cells.well^{-1}	235	0
P_{11}-12 5000 cells.well^{-1}	7.1×10^3	< 1
P_{11}-12 50000 cells.well^{-1}	2.2×10^6	5
Collagen 500 cells.well^{-1}	1.3×10^6	11
Collagen 5000 cells.well^{-1}	3.5×10^6	9
Collagen 50000 cells.well^{-1}	5.1×10^6	7

Table 7:

a) A summary of the statistical data comparing peptide P_{11}-16 to collagen control gels.

b) Approximate cell numbers contained in peptide P_{11}-16 gel matrices and estimated cell population doublings at the end of cell culture experiments. Data calculated using the equation number of cells = ATPLite CPS / 15.689

a)

Cells per well	Day 0	Day 14
500	NS	NS
5000	NS	Lower ($p<0.05$)
50000	Lower ($p<0.05$)	Lower ($p<0.05$)

b)

	Calculated Cell Number	Estimated Cell Population Doublings
P_{11}-16 500 cells.well^{-1}	396	0
P_{11}-16 5000 cells.well^{-1}	2.4×10^4	2
P_{11}-16 50000 cells.well^{-1}	4.6×10^3	0
Collagen 500 cells.well^{-1}	1.8×10^6	11
Collagen 5000 cells.well^{-1}	5×10^6	10
Collagen 50000 cells.well^{-1}	6.3×10^6	7

Table 8:

a) A summary of the statistical data comparing peptide P_{11}-18 to collagen control gels.

b) Approximate cell numbers contained in peptide P_{11}-18 gel matrices and estimated cell population doublings at the end of cell culture experiments. Data calculated using the equation number of cells = ATPLite CPS / 15.689

a)

Cells per well	Day 0	Day 14
500	NS	Lower ($p<0.05$)
5000	NS	Lower ($p<0.05$)
50000	Lower ($p<0.05$)	Lower ($p<0.05$)

b)

	Calculated Cell Number	Estimated Cell Population Doublings
P_{11}-18 500 cells.well^{-1}	37	0
P_{11}-18 5000 cells.well^{-1}	90	0
P_{11}-18 50000 cells.well^{-1}	224	0
Collagen 500 cells.well^{-1}	2.8×10^6	11
Collagen 5000 cells.well^{-1}	4.7×10^6	10
Collagen 50000 cells.well^{-1}	7.1×10^6	7

Table 9:

a) Approximate cell numbers contained in collagen gels supplemented with 0.9 mg.ml^{-1} TFA and estimated cell population doublings at the end of cell culture experiments. Data calculated using the equation number of cells = ATPLite CPS / 15.689.

b) Approximate cell numbers contained in collagen gels supplemented with 5.1 mg.ml^{-1} TFA and estimated cell population doublings at the end of cell culture experiments. Data calculated using the equation number of cells = ATPLite CPS / 15.689.

a)

	Calculated Cell Number	Estimated Cell Population Doublings
Collagen/TFA (0.9mg.ml^{-1}) 500 cells.well^{-1}	1.6 × 10^{6}	11
Collagen/TFA (0.9mg.ml^{-1}) 5000 cells.well^{-1}	2.8 × 10^{6}	9
Collagen/TFA (0.9mg.ml^{-1}) 50000 cells.well^{-1}	3.7 × 10^{6}	6
Collagen Control 500 cells.well^{-1}	2.9 × 10^{6}	12
Collagen Control 5000 cells.well^{-1}	3.1 × 10^{6}	9
Collagen Control 50000 cells.well^{-1}	4.9 × 10^{6}	7

b)

	Calculated Cell Number	Estimated Cell Population Doublings
Collagen/TFA (5.1mg.ml^{-1}) 500 cells.well^{-1}	3.3 × 10^{4}	6
Collagen/TFA (5.1mg.ml^{-1}) 5000 cells.well^{-1}	3.2 × 10^{5}	6
Collagen/TFA (5.1mg.ml^{-1}) 50000 cells.well^{-1}	4.9 × 10^{6}	7
Collagen Control 500 cells.well^{-1}	1.5 × 10^{6}	11
Collagen Control 5000 cells.well^{-1}	3.4 × 10^{6}	9
Collagen Control 50000 cells.well^{-1}	5 × 10^{6}× 10^{6}	7

Figure 9

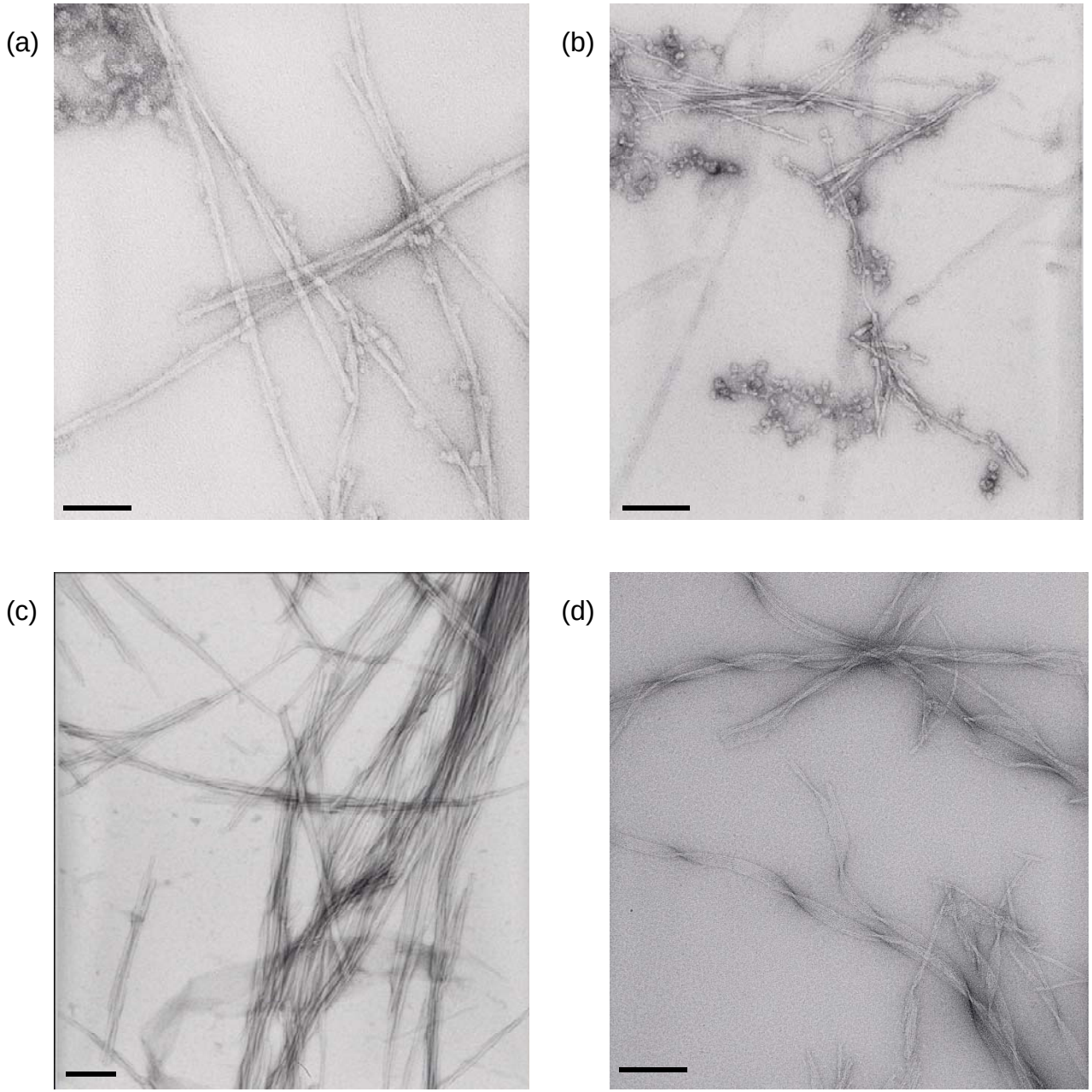
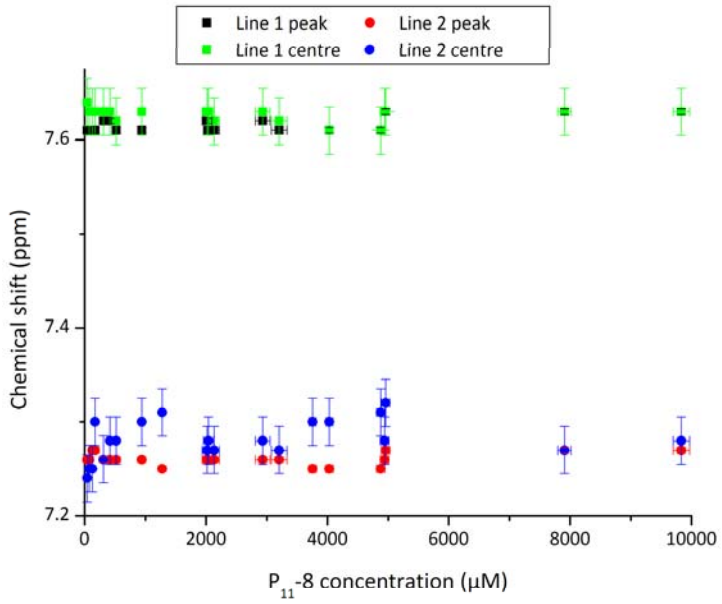


Figure 10

(a)



(b)

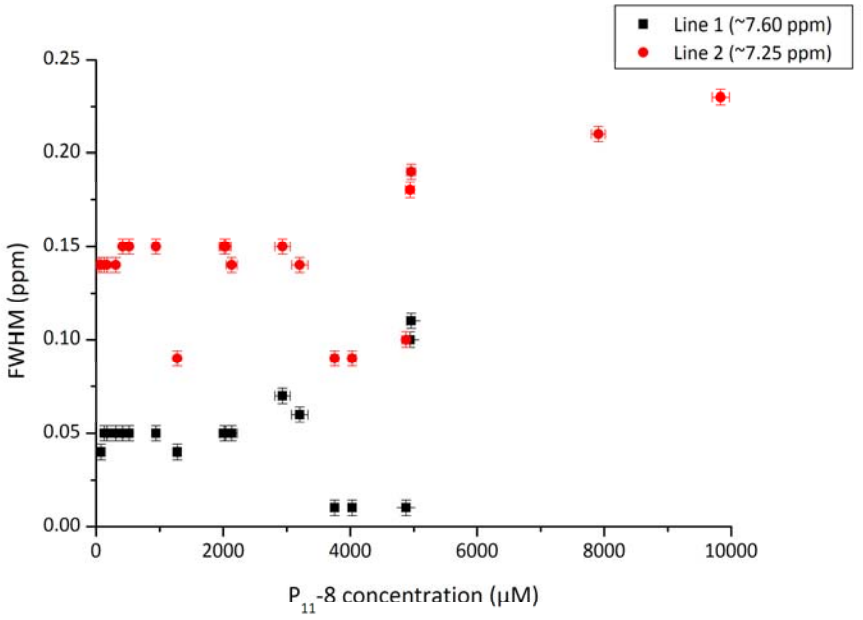


Figure 11

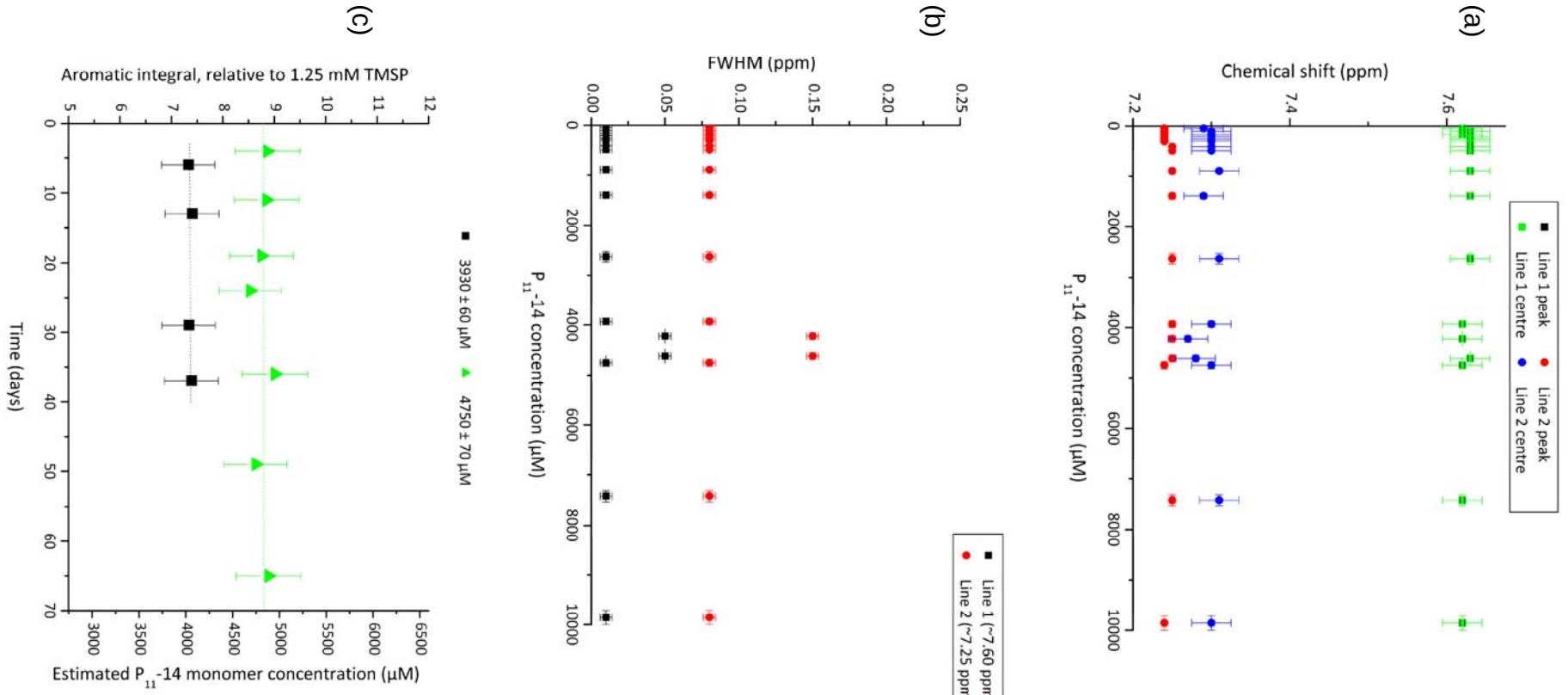


Figure 12

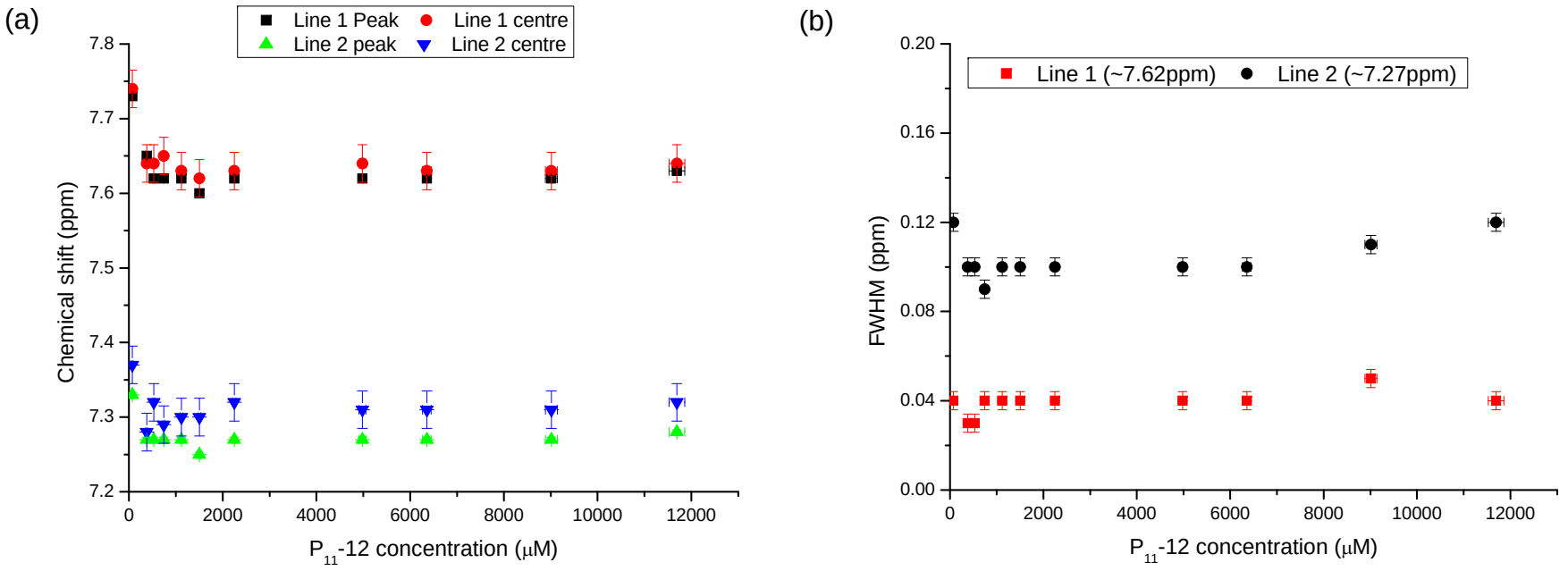


Figure 13