Supplementary material to

Polyamine Catabolism Revisited: Acetylpolyamine Oxidase Plays a Minor Role due to Low Expression

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Table S1. Limits of detection (LOD) and quantification (LOQ) of polyamines by HPLC analysis, and assay reproducibility by three independent researchers

Polyamine	LOD (nmol)	LOQ (nmol)	Standard deviation (%)
Putrescine	0,05	0,17	7,3
Cadaverine	0,05	0,18	7,5
1,6-Diaminoxehane	0,02	0,09	11,2
1,7-Diaminoheptane	0,03	0,10	12,1
Spermidine	0,01	0,04	17,7
Spermine	0,01	0,05	23,4
N^1-Acetylspermidine	0,03	0,10	10,1
N^1-Acetylspermine	0,02	0,09	8,4

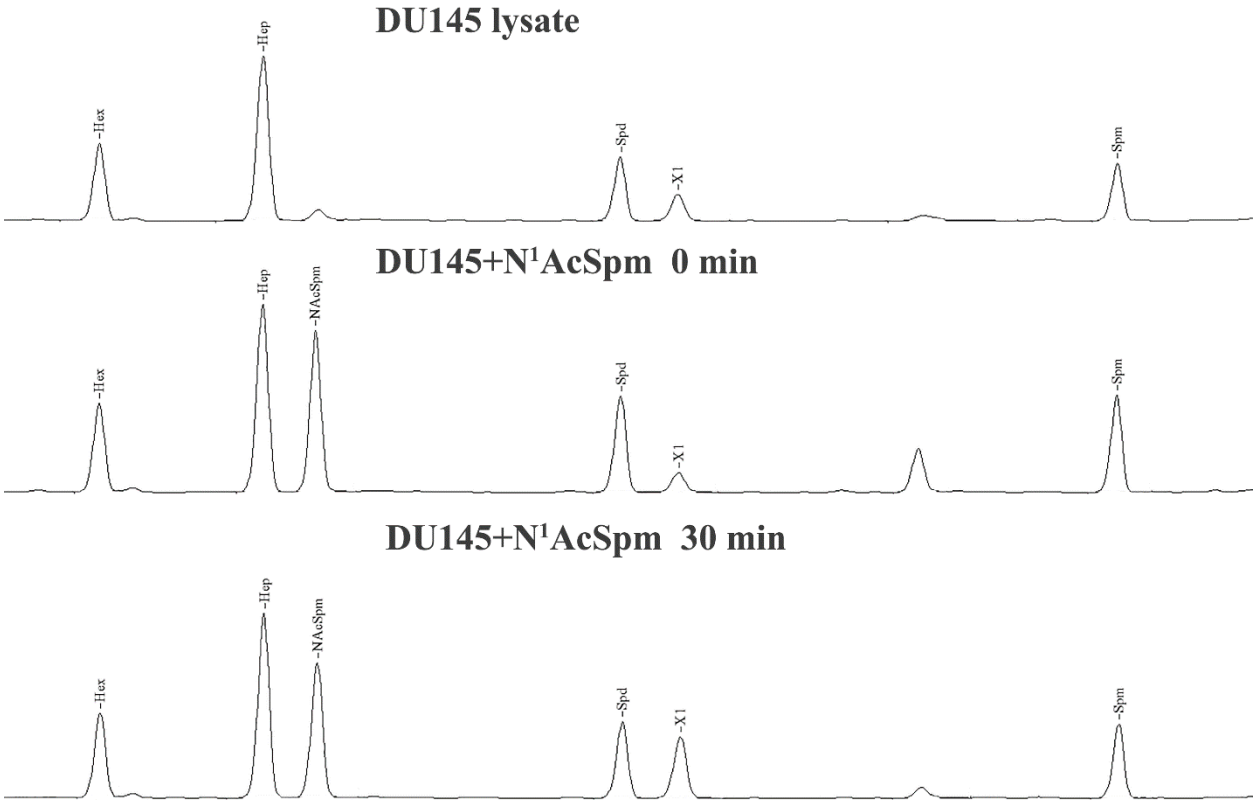


Figure S1. Representative chromatograms of polyamine quantification in the lysate of DU145 cells (upper panel) and the lysate suppelented with N^1-AcSpm prior incubation (middle panel) or after 30 min incubation (lower panel). 1,6-Diaminohexane (Hex) and 1,7-diaminoheptane (Hep) were added to reaction mixtures as internal standards. X1 denotes polyamine-nonrelated peak.

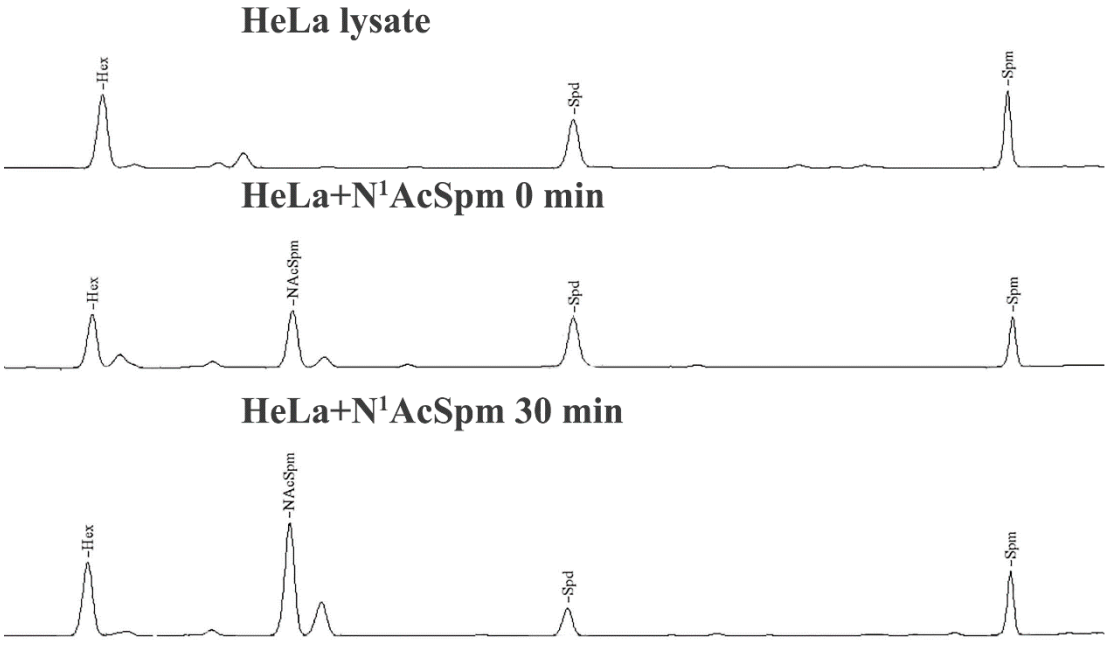


Figure S2. Representative chromatograms of polyamine quantification in the lysate of HeLa cells (upper panel) and the lysate suppelented with N^1-AcSpm prior incubation (middle panel) or after 30 min incubation (lower panel). 1,6-Diaminohexane (Hex) as added to reaction mixtures as internal standards.

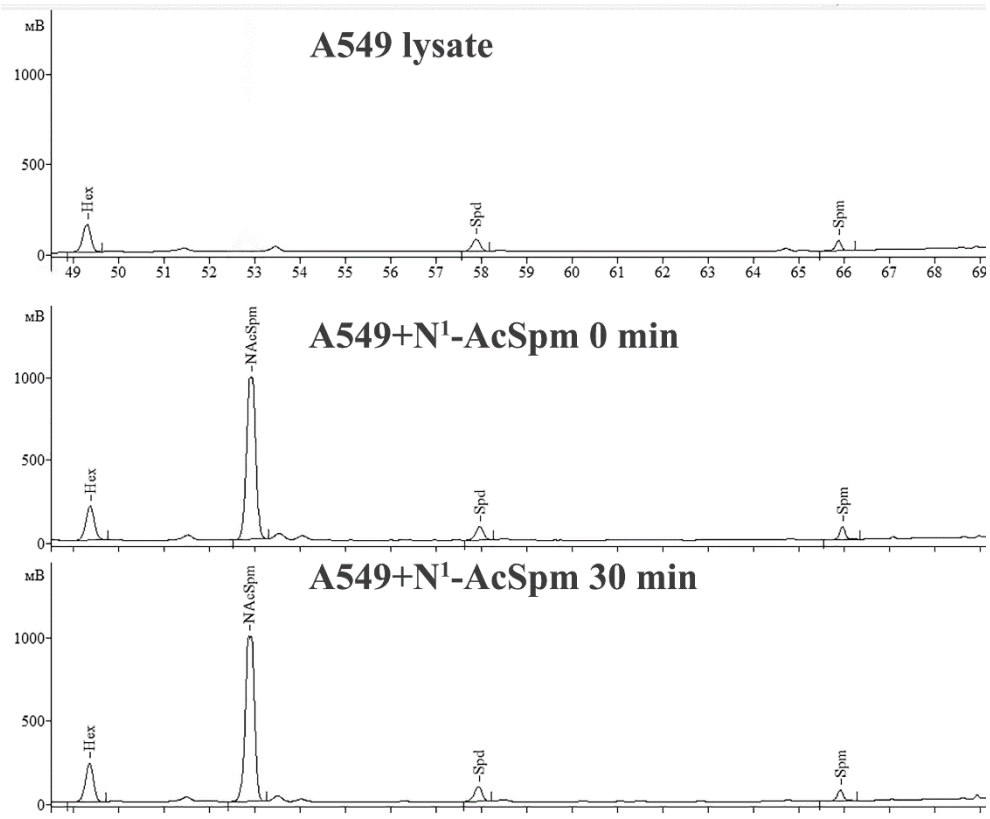


Figure S3. Representative chromatograms of polyamine quantification in the lysate of A549 cells (upper panel) and the lysate suppelented with N^1-AcSpm prior incubation (middle panel) or after 30 min incubation (lower panel). 1,6-Diaminohexane (Hex) as added to reaction mixtures as internal standards.

Table S2. Quantification of data, presented on chromatograms S1-S3

Polyamine	N^1-AcSpm (pmol/mg protein)	Spd (pmol/mg protein)	Spm (pmol/mg protein)
A549 lysate	<1	8,3±1,4	5,1±0,8
A549 + N^1-AcSmp, 0 min	43,4±2,9	8,2±1,3	4,9±0,9
A549 + N^1-AcSmp, 30 min	42,9±2,8	7,0±1,1	3,4±0,6
DU145 lysate	<1	3,8±0,5	4,0±0,6
DU145 + N^1-AcSmp, 0 min	31,9±2,6	3,9±0,6	4,2±0,4
DU145 + N^1-AcSmp, 30 min	28,2±2,9	3,1±0,3	3,2±0,6
HeLa lysate	<1	11,4±1,6	22,0±3,4
HeLa + N^1-Acetylspermidine, 0 min	28,3±1,7	11,1±1,1	20,7±1,9
HeLa + N^1-Acetylspermine, 30 min	28,2±1,3	12,1±0,9	22,9±2,4