

### 3/26/18 Graphing ddPCR results for paper

**Purpose: Paper needs graphs to display results. Will derive from ddPCR data for 4 miRNAs measured for all 3 phthalates**

Data derived from here: [Data values are listed below](#)

BoxPlotR used to graph the data: <http://shiny.chemgrid.org/boxplotr/>

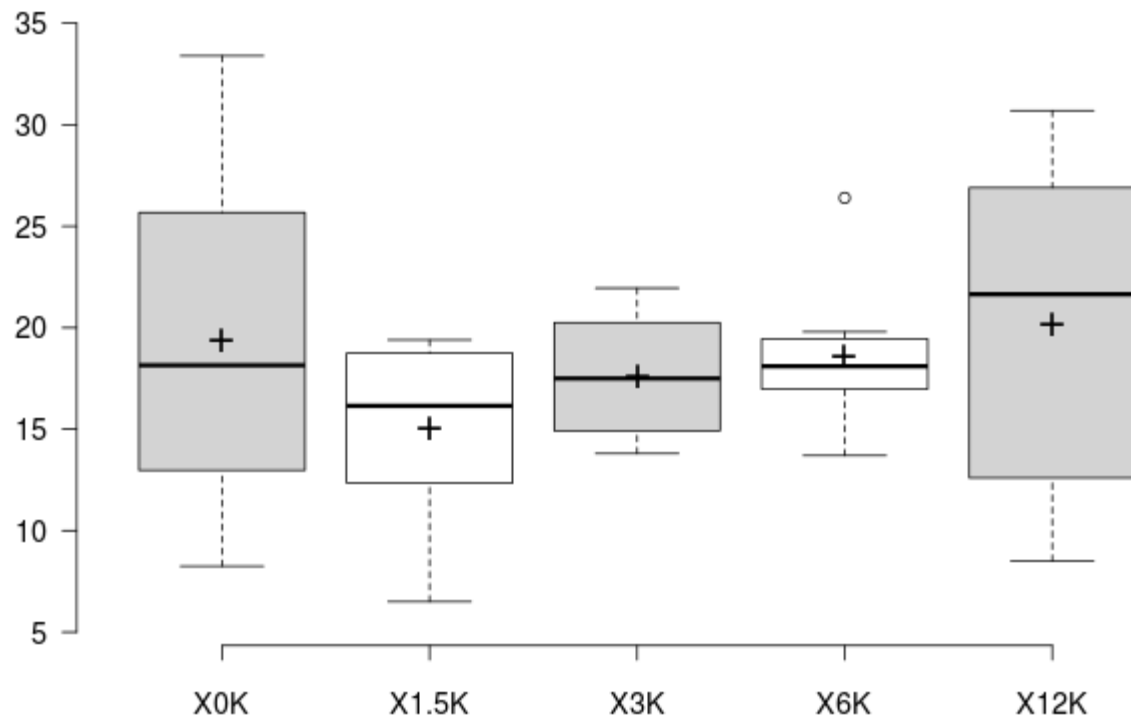
**mmu-let-7g-5p:**

**BBP**

Data

0K	1.5K	3K	6K	12K
29.3	6.5	19.7	26.4	15.4
15.9	18.95	17.15	19.1	27.7
17.25	18.1	15.3	17.45	9.8
8.25	19.4	13.8	18.3	18.3
22.05	14.2	14.55	17.9	8.5
19.05	18.55	20.8	13.7	25
10.05	13.55	21.95	16.5	26.1
33.4	11.15	17.85	19.8	30.7

Plot



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### Box plot statistics

	X0K	X1.5K	X3K	X6K	X12K
Upper whisker	33.40	19.40	21.95	19.80	30.70
3rd quartile	25.68	18.75	20.25	19.45	26.90
Median	18.15	16.15	17.50	18.10	21.65
1st quartile	12.98	12.35	14.93	16.98	12.60
Lower whisker	8.25	6.50	13.80	13.70	8.50
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	19.41	15.05	17.64	18.64	20.19

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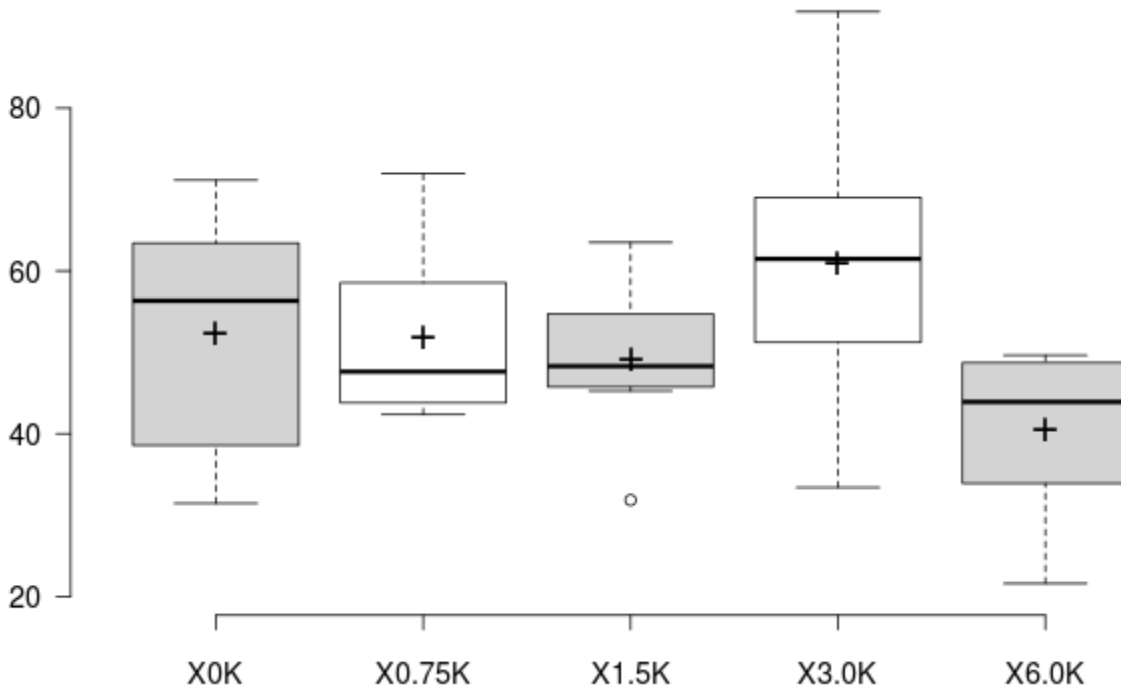
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**let-7g DEHP**

Data

0K	0.75K	1.5K	3.0K	6.0K
58.05	49	31.85	56.4	49.65
38.7	46.25	58.75	62.35	48.45
54.6	42.35	47.6	33.4	42.8
31.45	43.1	50.7	63.7	34.45
71.15	44.5	45.25	60.6	49
59.1	51.3	49	46.05	45
67.75	65.8	46.25	74.4	33.35
38.45	71.95	63.5	91.85	21.6

Plot



## Box plot statistics

	X0K	X0.75K	X1.5K	X3.0K	X6.0K
Upper whisker	71.15	71.95	63.50	91.85	49.65
3rd quartile	63.42	58.55	54.73	69.05	48.73
Median	56.33	47.62	48.30	61.48	43.90
1st quartile	38.58	43.80	45.75	51.22	33.90
Lower whisker	31.45	42.35	45.25	33.40	21.60
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	52.41	51.78	49.11	61.09	40.54

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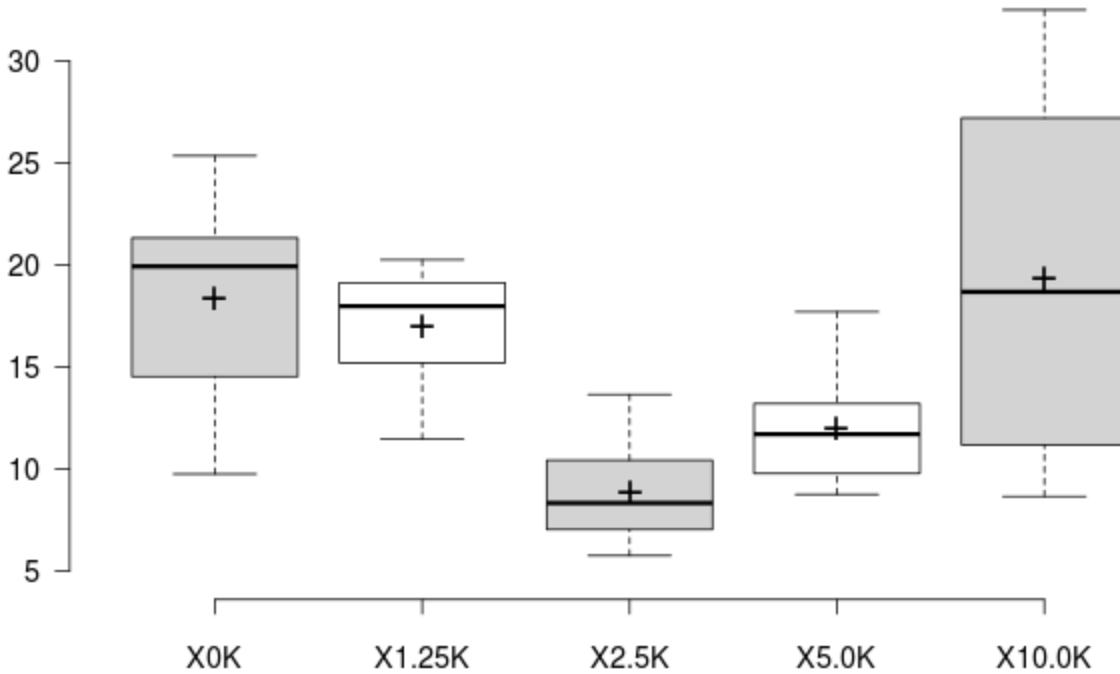
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### DNOP let-7g

#### Data:

OK	1.25K	2.5K	5.0K	10.0K
19.8	18.1	11.95	13.05	21.25
15.15	17.4	13.65	17.7	16.1
13.9	13	8.15	10.1	11.9
9.75	11.45	8.9	9.45	10.45
25.35	17.95	6.85	8.75	8.65
21.5	18	5.75	13.35	26.5
21.15	20.15	7.2	10.7	27.9
20.05	20.25	8.5	12.7	32.5

#### Plot:



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### Box plot statistics

	X0K	X1.25K	X2.5K	X5.0K	X10.0K
Upper whisker	25.35	20.25	13.65	17.70	32.50
3rd quartile	21.32	19.12	10.43	13.20	27.20
Median	19.93	17.98	8.32	11.70	18.68
1st quartile	14.53	15.20	7.03	9.77	11.18
Lower whisker	9.75	11.45	5.75	8.75	8.65
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	18.33	17.04	8.87	11.97	19.41

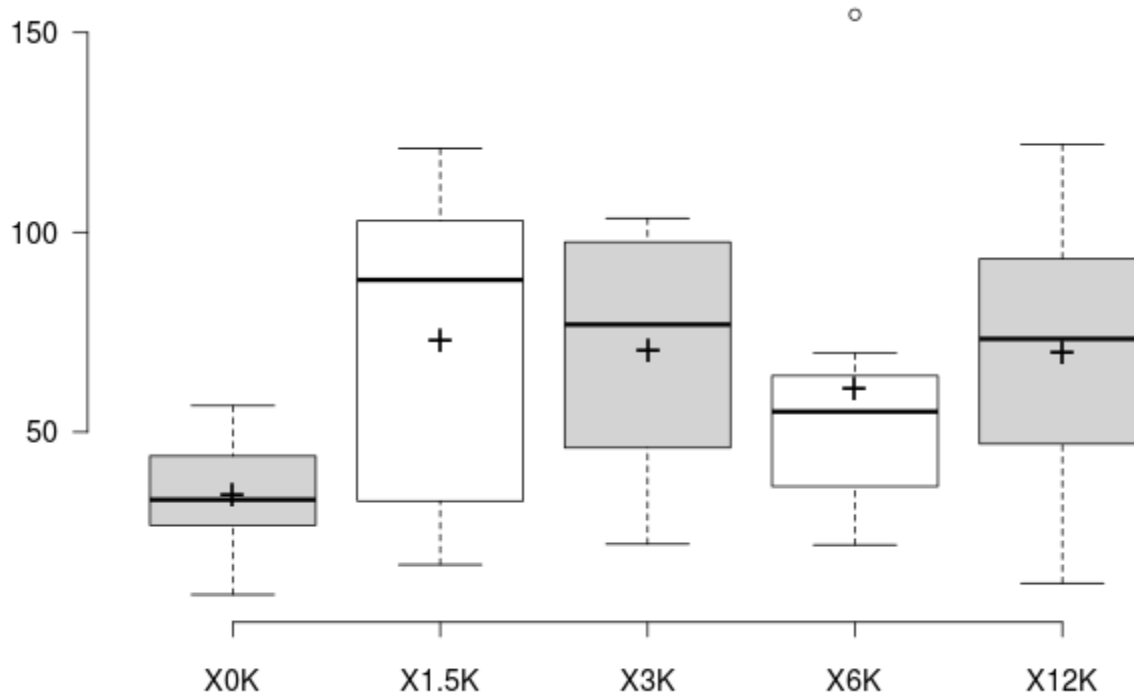
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**mmu-miR-107-3p**  
**BBP**

Data:

0K	1.5K	3K	6K	12K
9.3	16.8	21.95	31.75	12.15
33.45	121	88.3	154.5	86.65
29.3	107.25	103.5	41.05	97.5
24.05	98.5	92.6	58.45	57.5
56.6	83.95	35.25	56.85	36.55
47.9	92.2	65.5	69.75	60
32.65	32.15	102.5	53.4	89.25
40.15	33.35	56.85	21.75	122

Plot:



## Box plot statistics

	X0K	X1.5K	X3K	X6K	X12K
Upper whisker	56.60	121.00	103.50	69.75	122.00
3rd quartile	44.02	102.88	97.55	64.10	93.38
Median	33.05	88.08	76.90	55.12	73.33
1st quartile	26.68	32.75	46.05	36.40	47.02
Lower whisker	9.30	16.80	21.95	21.75	12.15
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	34.17	73.15	70.81	60.94	70.20

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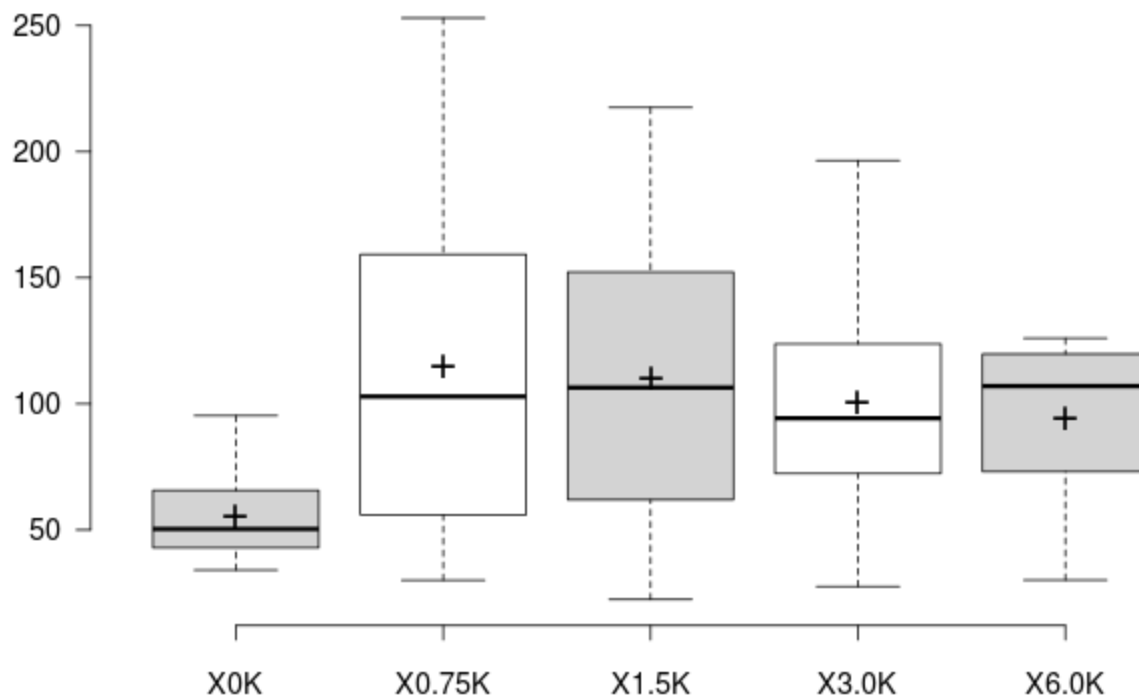
**mmu-miR-107-3p**

**DEHP**

Data:

OK	0.75K	1.5K	3.0K	6.0K
48.15	202	217.5	64.3	97
52.55	97.3	67.8	127.5	125.5
75.6	30.05	141.5	80.35	103
95.3	69.25	161.5	120	111
39.95	116.5	71.35	27.55	114
34.05	42.75	56.1	196.5	126
45.8	108.5	22.4	92.6	30.1
55.75	253	143	95.95	49.2

Plot:



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### Box plot statistics

	X0K	X0.75K	X1.5K	X3.0K	X6.0K
Upper whisker	95.30	253.00	217.50	196.50	126.00
3rd quartile	65.67	159.25	152.25	123.75	119.75
Median	50.35	102.90	106.42	94.28	107.00
1st quartile	42.88	56.00	61.95	72.32	73.10
Lower whisker	34.05	30.05	22.40	27.55	30.10
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	55.89	114.92	110.14	100.59	94.47

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**mmu-miR-107-3p**

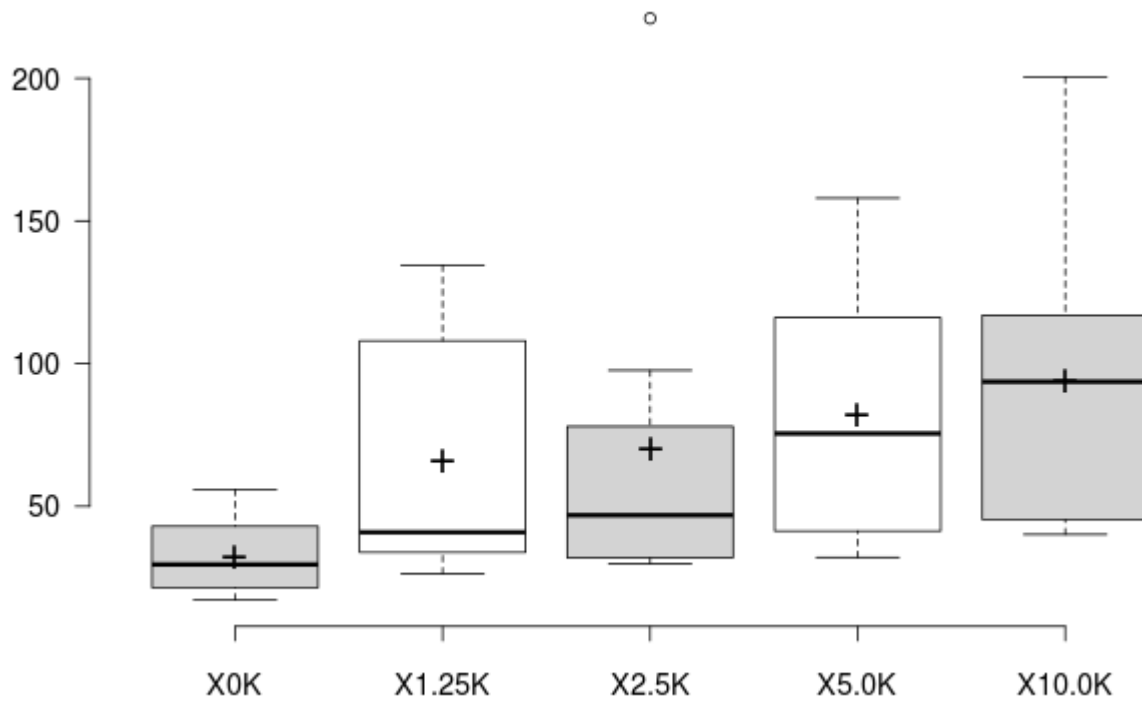


## DNOP

Data:

0K	1.25K	2.5K	5.0K	10.0K
55.95	107	29.95	32.1	40.15
21.4	43.25	42.5	44.5	200.5
21.6	26.4	30.6	38.2	108.95
17.2	32.15	58.35	85.05	49.4
30.35	35.6	33.35	100.75	78.4
28.9	38.6	51.3	158	118.5
49.55	109	97.65	131.5	115.5
36.5	134.5	221	66	41.35

Plot:



## Box plot statistics

	X0K	X1.25K	X2.5K	X5.0K	X10.0K
Upper whisker	55.95	134.50	97.65	158.00	200.50
3rd quartile	43.02	108.00	78.00	116.12	117.00
Median	29.62	40.92	46.90	75.53	93.68
1st quartile	21.50	33.88	31.98	41.35	45.38
Lower whisker	17.20	26.40	29.95	32.10	40.15
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	32.68	65.81	70.59	82.01	94.09

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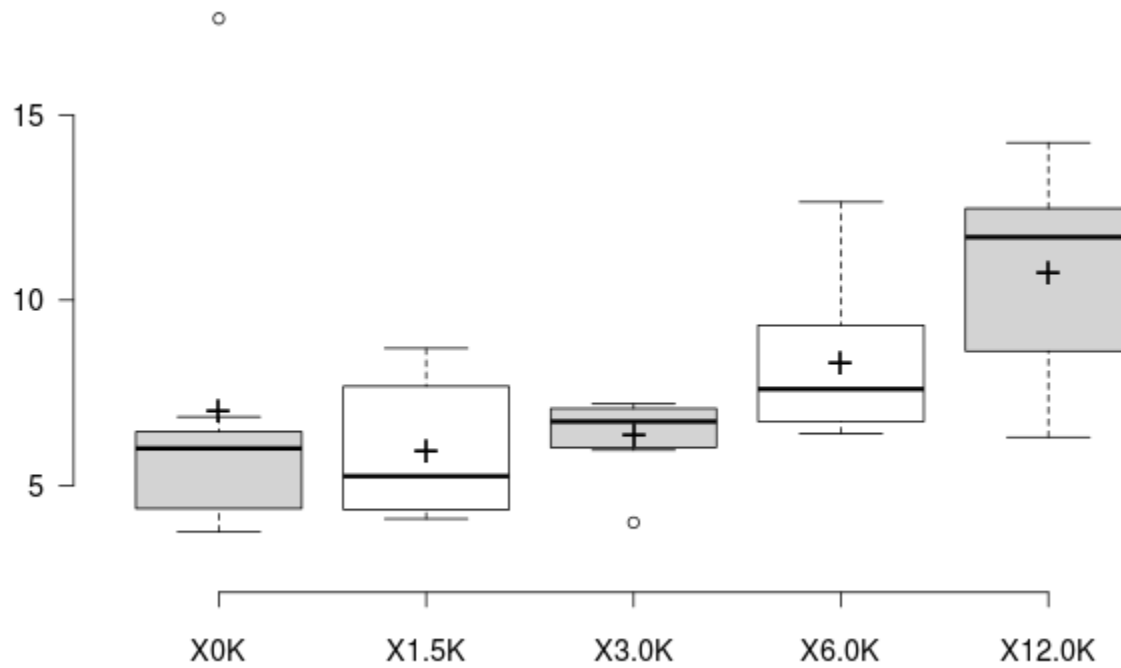
**mmu-miR-182-5p**

**BBP**

Data:

OK	1.5K	3.0K	6.0K	12.0K
6.05	4.4	6.45	12.65	10.55
4.45	6.9	7.05	9.15	14.25
6	5.8	5.95	6.4	11.65
6.85	4.7	6.1	6.65	6.3
4.3	4.3	4	9.5	6.7
3.75	8.7	7.2	7.1	12
17.6	8.45	7	6.8	11.75
	4.1	7.1	8.1	12.95

Plot:



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### Box plot statistics

	X0K	X1.5K	X3.0K	X6.0K	X12.0K
Upper whisker	6.85	8.70	7.20	12.65	14.25
3rd quartile	6.45	7.67	7.07	9.32	12.47
Median	6.00	5.25	6.72	7.60	11.70
1st quartile	4.38	4.35	6.03	6.72	8.62
Lower whisker	3.75	4.10	5.95	6.40	6.30
Nr. of data points	7.00	8.00	8.00	8.00	8.00
Mean	7.00	5.92	6.36	8.29	10.77

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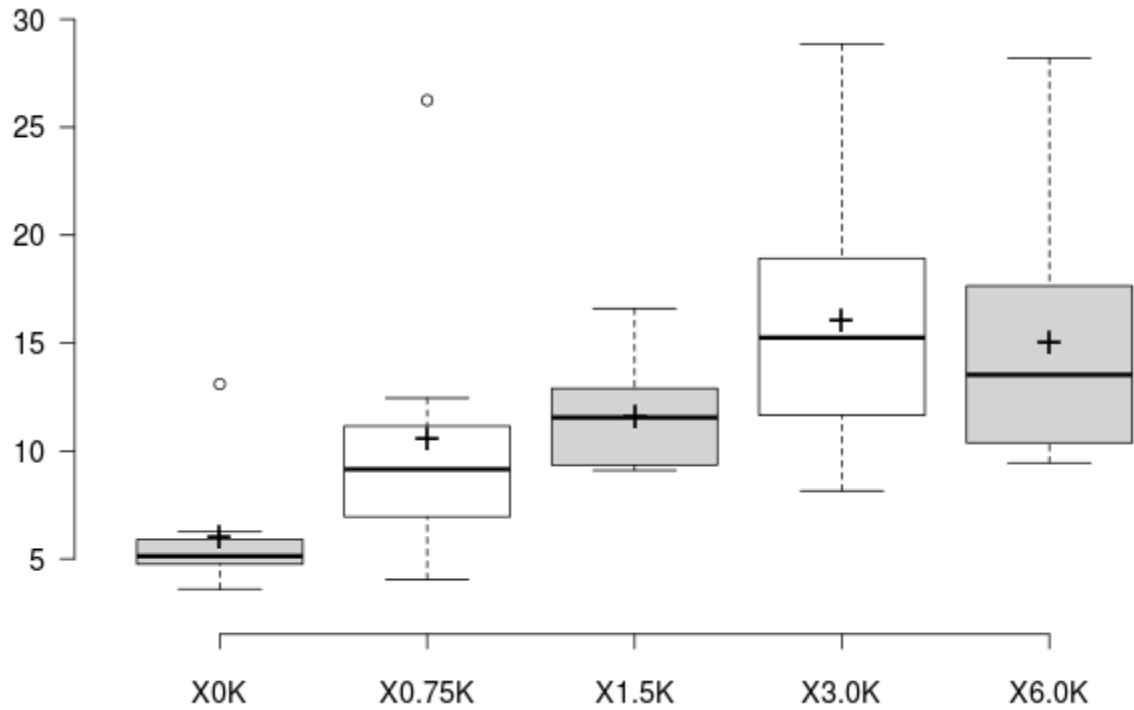
**mmu-miR-182-5p**

**DEHP**

Data:

0K	0.75K	1.5K	3.0K	6.0K
13.1	26.25	10.7	13.35	28.2
5.2	6.6	16.6	15.8	9.45
5.05	4.05	9.2	9.95	9.85
5.55	9.6	9.5	8.15	14.45
6.25	7.3	12.4	19.75	14.05
4.75	9.85	9.1	14.7	13
4.75	8.7	13.15	18.1	20.85
3.6	12.45	12.65	28.85	10.9

Plot:



## Box plot statistics

	X0K	X0.75K	X1.5K	X3.0K	X6.0K
Upper whisker	6.25	12.45	16.60	28.85	28.20
3rd quartile	5.90	11.15	12.90	18.93	17.65
Median	5.12	9.15	11.55	15.25	13.53
1st quartile	4.75	6.95	9.35	11.65	10.38
Lower whisker	3.60	4.05	9.10	8.15	9.45
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	6.03	10.60	11.66	16.08	15.09

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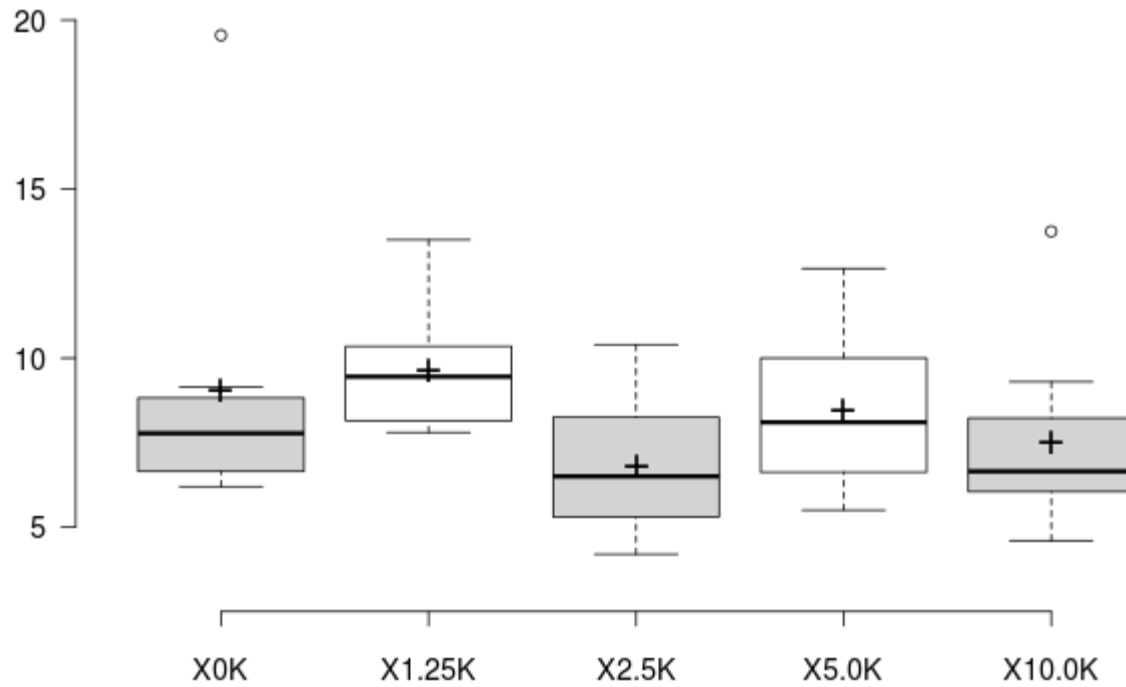
### mmu-miR-182-5p

#### DNOP

#### Data

0K	1.25K	2.5K	5.0K	10.0K
19.55	9.2	6	9.3	6.3
9.15	9.7	6.25	12.65	6.65
8.2	8.25	10.4	7.6	7.15
6.2	8.05	7.65	5.5	4.6
6.95	7.8	8.85	8.6	13.75
8.5	9.75	4.2	10.7	6.65
7.35	10.95	6.75	6.9	5.8
6.35	13.5	4.6	6.35	9.3

#### Plot



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### Box plot statistics

	X0K	X1.25K	X2.5K	X5.0K	X10.0K
Upper whisker	9.15	13.50	10.40	12.65	9.30
3rd quartile	8.82	10.35	8.25	10.00	8.23
Median	7.77	9.45	6.50	8.10	6.65
1st quartile	6.65	8.15	5.30	6.62	6.05
Lower whisker	6.20	7.80	4.20	5.50	4.60
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	9.03	9.65	6.84	8.45	7.53

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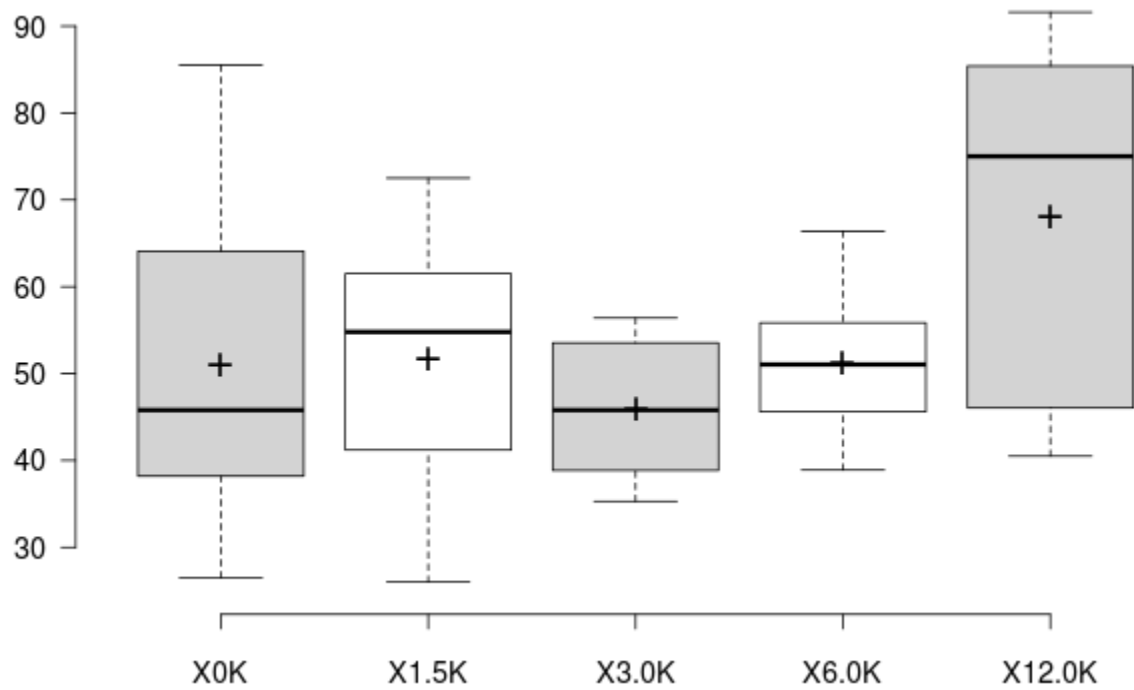
mmu-miR-378a-3p

BBP

Data

0K	1.5K	3.0K	6.0K	12.0K
85.5	26	35.3	56.3	48.8
43.9	59.2	36.5	66.4	91.6
47.7	58	43.9	41.6	43.3
71.6	63.8	41.2	51.8	70
26.5	51.6	47.7	38.9	40.5
56.6	72.5	52.5	50.3	87.6
41.3	42.3	54.6	49.6	83.2
35.1	40.1	56.4	55.4	80

Plot:



## Box plot statistics

	X0K	X1.5K	X3.0K	X6.0K	X12.0K
Upper whisker	85.50	72.50	56.40	66.40	91.60
3rd quartile	64.10	61.50	53.55	55.85	85.40
Median	45.80	54.80	45.80	51.05	75.00
1st quartile	38.20	41.20	38.85	45.60	46.05
Lower whisker	26.50	26.00	35.30	38.90	40.50
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	51.02	51.69	46.01	51.29	68.12

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**mmu-miR-378a-3p**

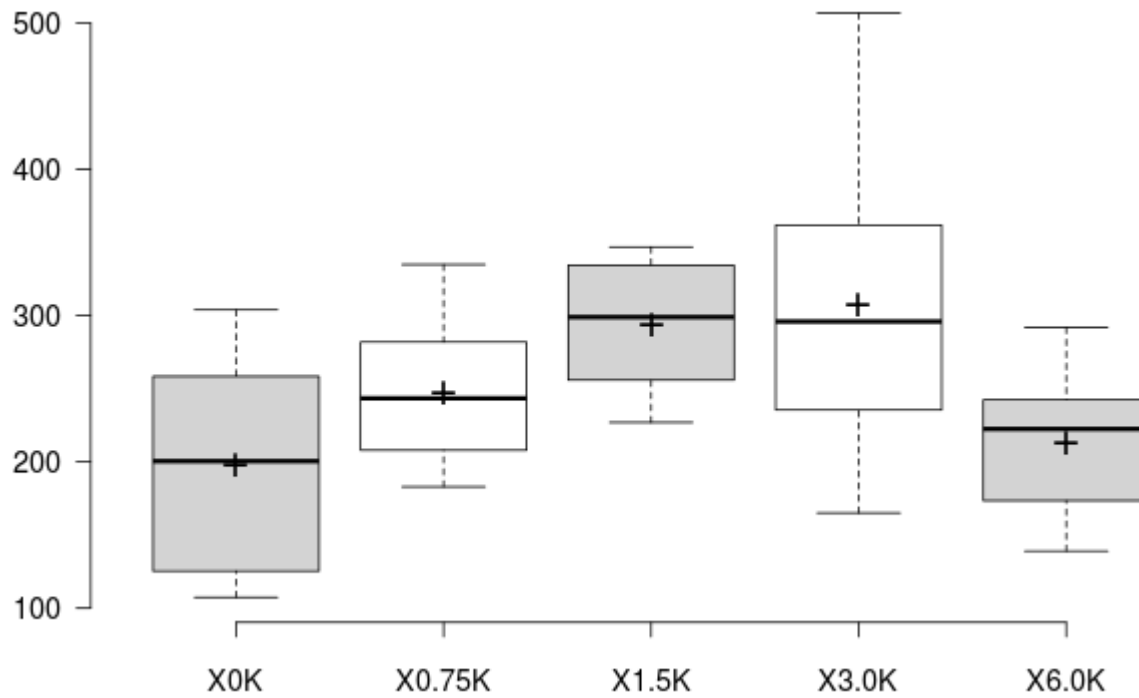
**DEHP**

Data:

0K	0.75K	1.5K	3.0K	6.0K
304	312	227	221	247
187.1	197	328	343	162
214	183	285	165.1	139
107.4	237	248	250	185
245	219	313	314	224
131.7	252	347	278	221
272	250	264	381	238
119	335	341	507	292



Plot:



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### Box plot statistics

	X0K	X0.75K	X1.5K	X3.0K	X6.0K
Upper whisker	304.00	335.00	347.00	507.00	292.00
3rd quartile	258.50	282.00	334.50	362.00	242.50
Median	200.55	243.50	299.00	296.00	222.50
1st quartile	125.35	208.00	256.00	235.50	173.50
Lower whisker	107.40	183.00	227.00	165.10	139.00
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	197.53	248.12	294.12	307.39	213.50

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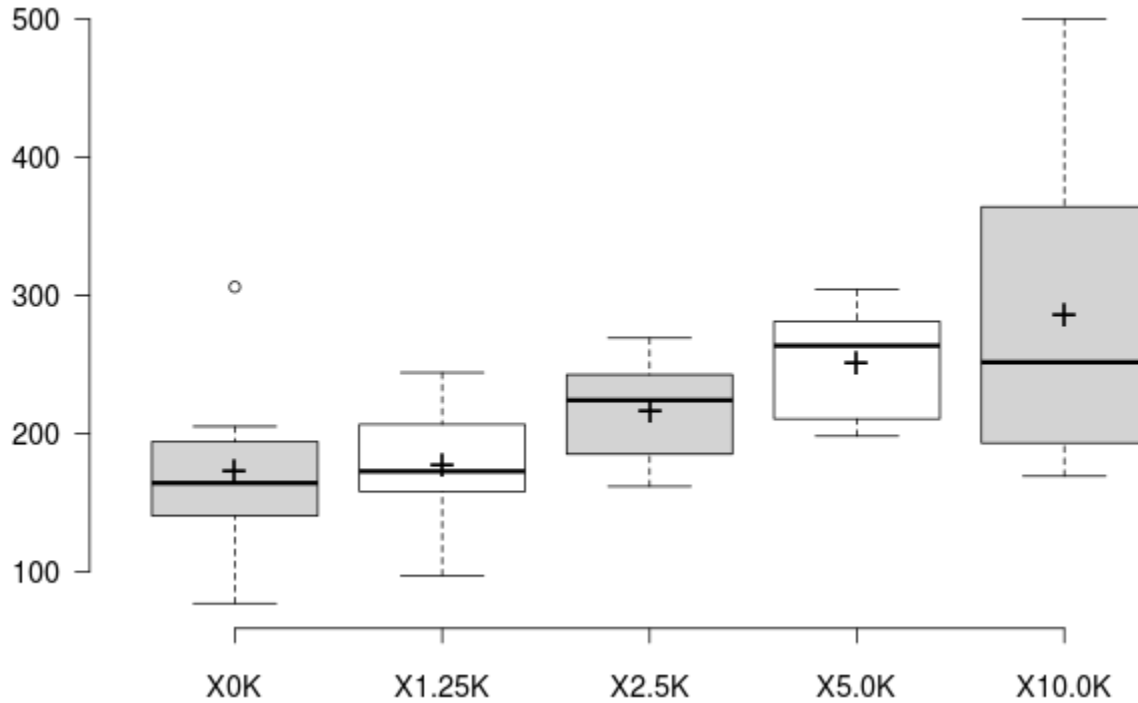
mmu-miR-378a-3p

**DNOP**

**Data:**

0K	1.25K	2.5K	5.0K	10.0K
306	244	220	304	174
183.1	208	269	284	236
168.7	167	249	273	297
147.7	149	228	205	212
205	168	161.6	198	169
159.4	177	170	278	267
76.9	97	236	216	500
132.9	205	200	254	431

**Plot:**



## Box plot statistics

	<b>X0K</b>	<b>X1.25K</b>	<b>X2.5K</b>	<b>X5.0K</b>	<b>X10.0K</b>
Upper whisker	205.00	244.00	269.00	304.00	500.00
3rd quartile	194.05	206.50	242.50	281.00	364.00
Median	164.05	172.50	224.00	263.50	251.50
1st quartile	140.30	158.00	185.00	210.50	193.00
Lower whisker	76.90	97.00	161.60	198.00	169.00
Nr. of data points	8.00	8.00	8.00	8.00	8.00
Mean	172.46	176.88	216.70	251.50	285.75

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