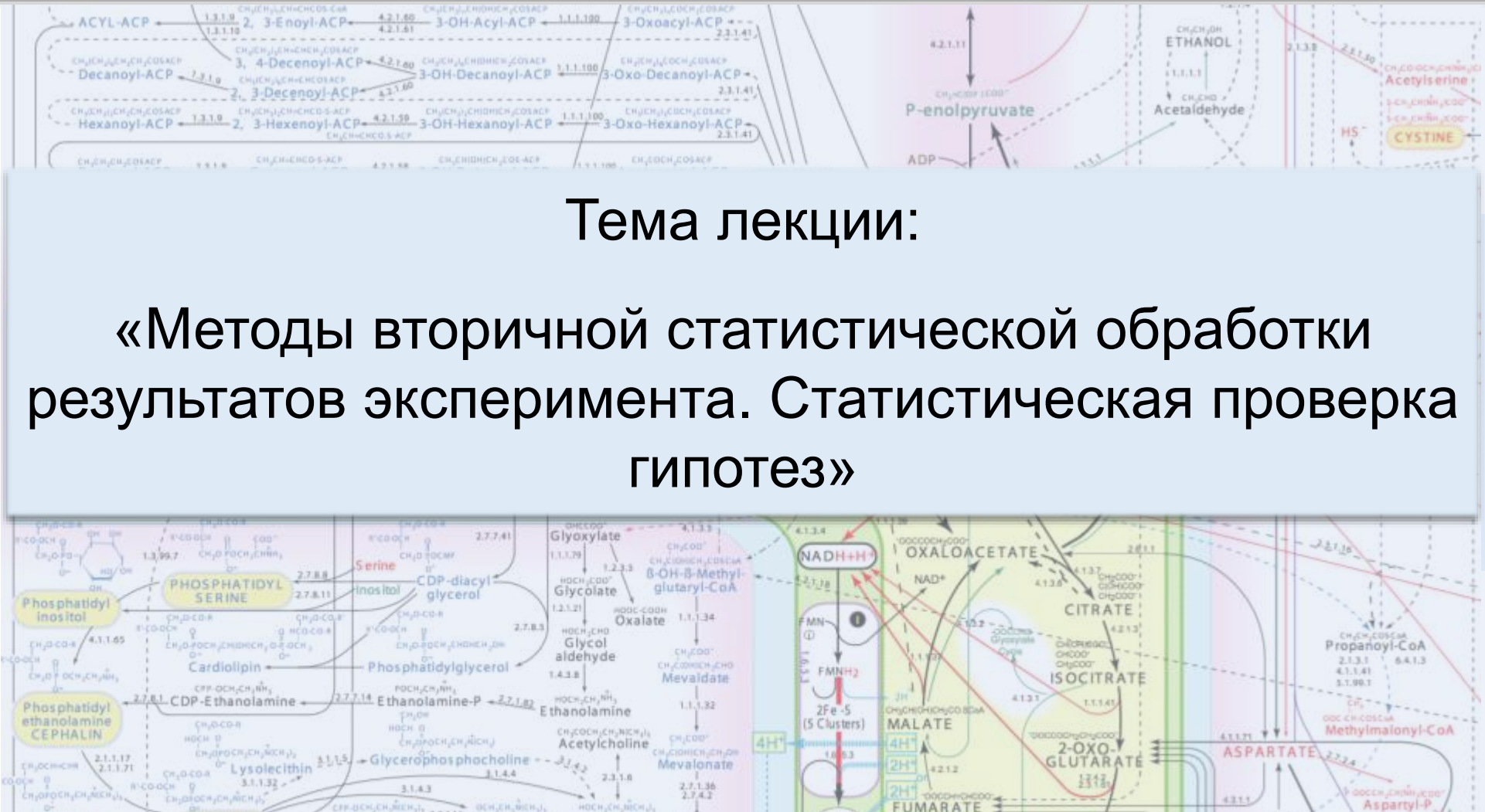
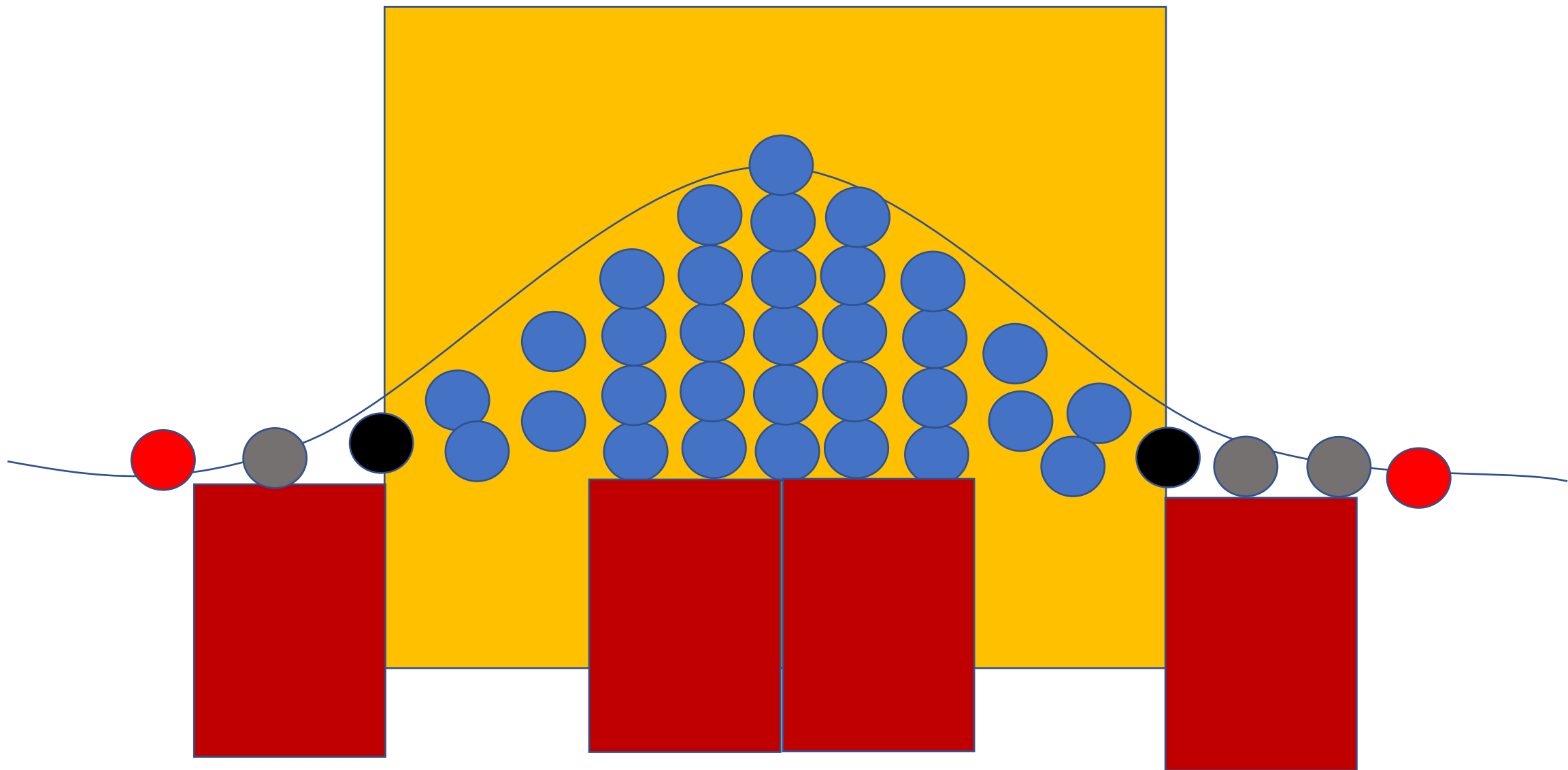
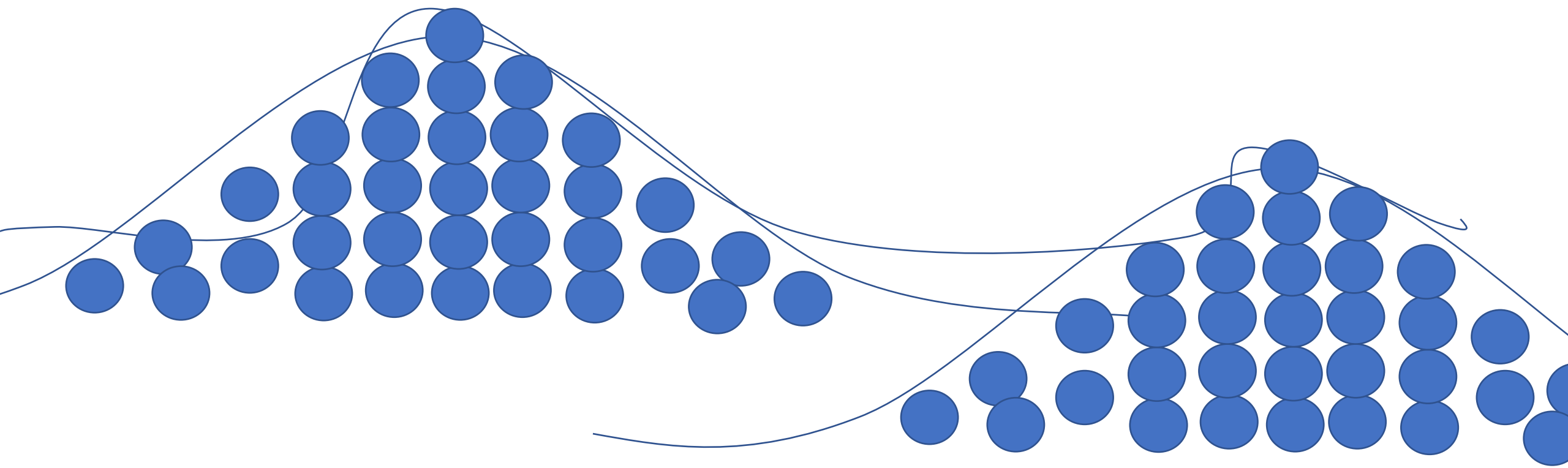


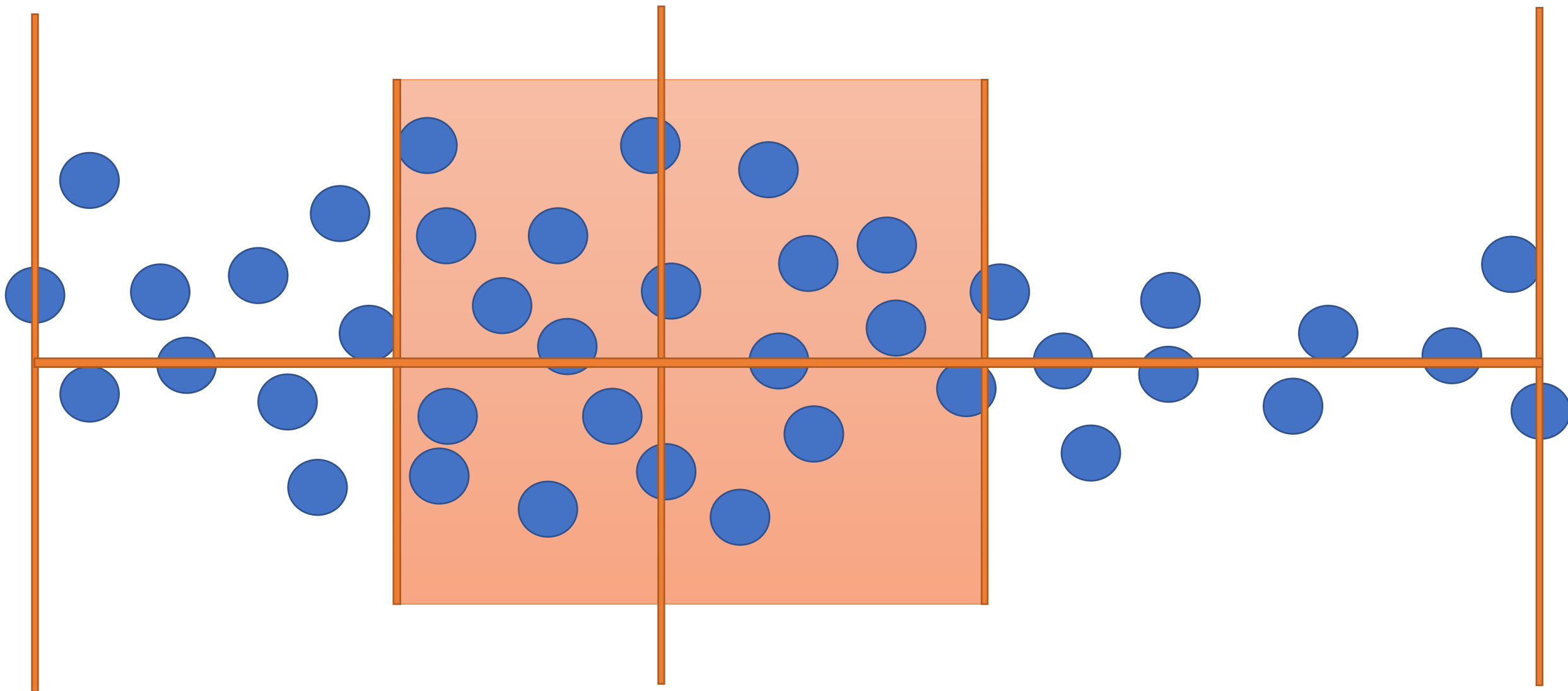
«Методология научного эксперимента»

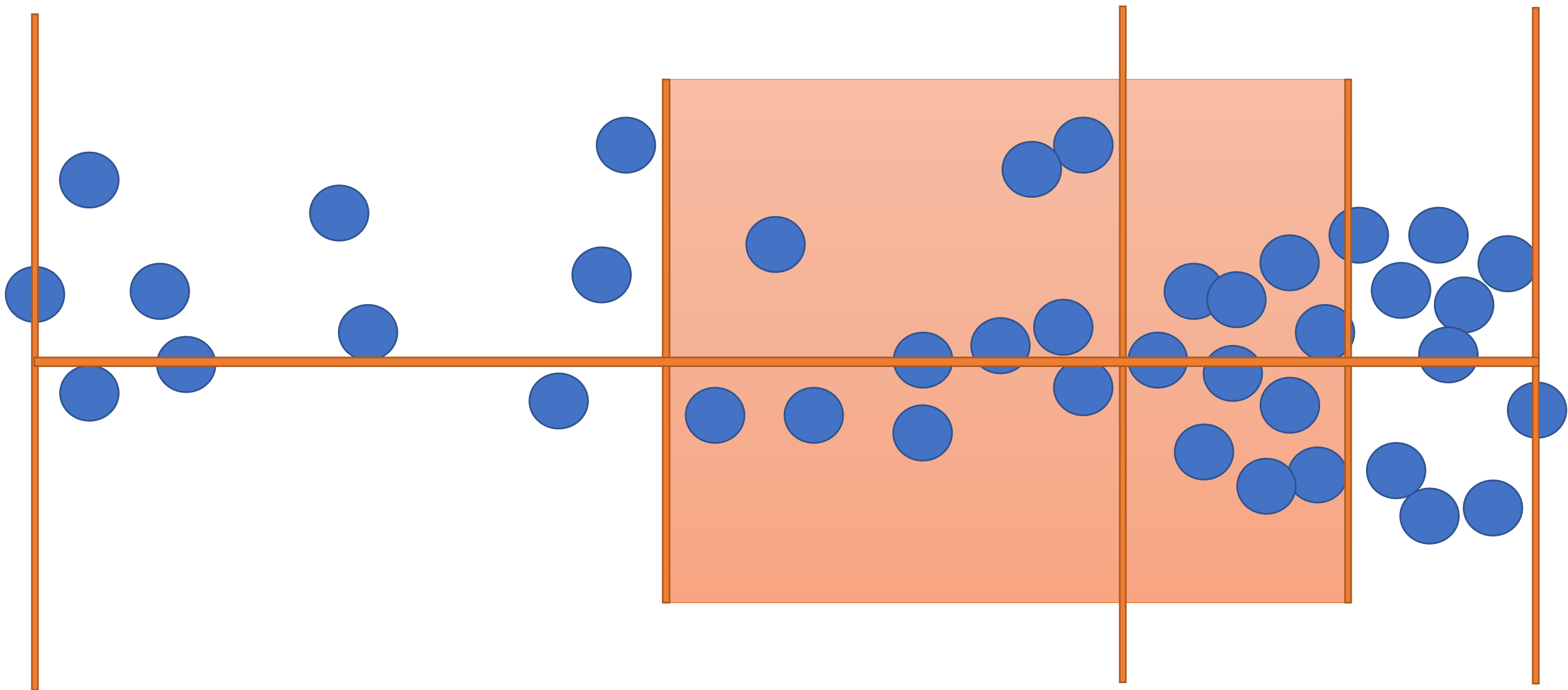
Курс лекций кафедры фундаментальной медицины и биологии ВолгГМУ
для студентов медико-биологического факультета

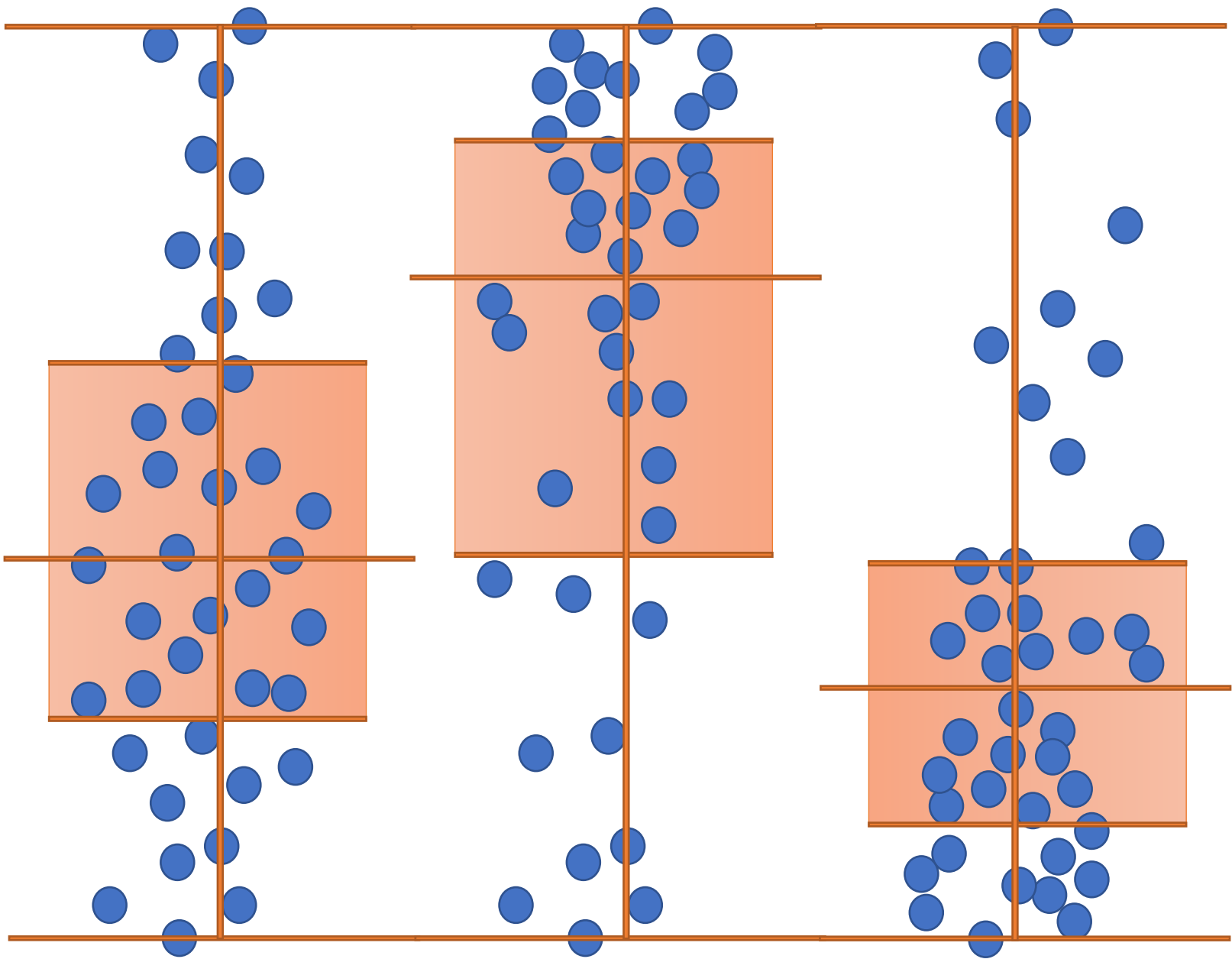


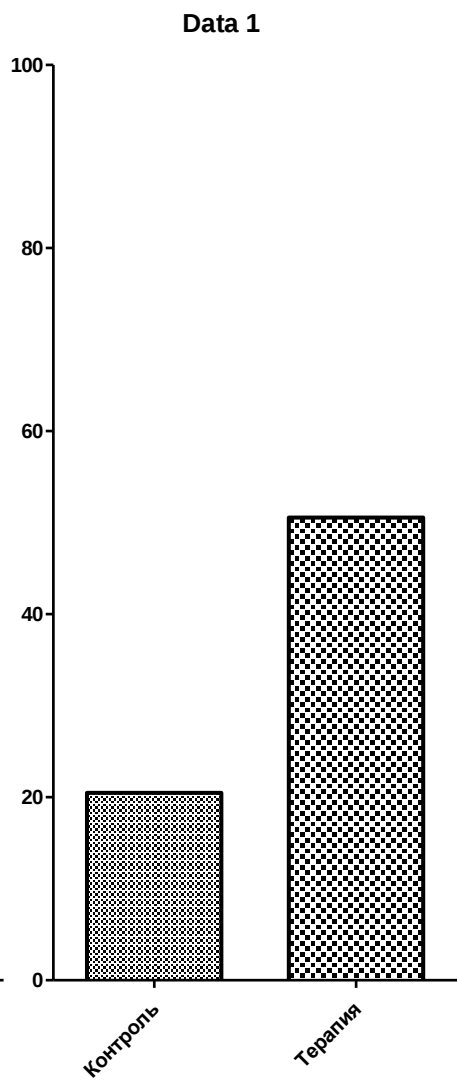
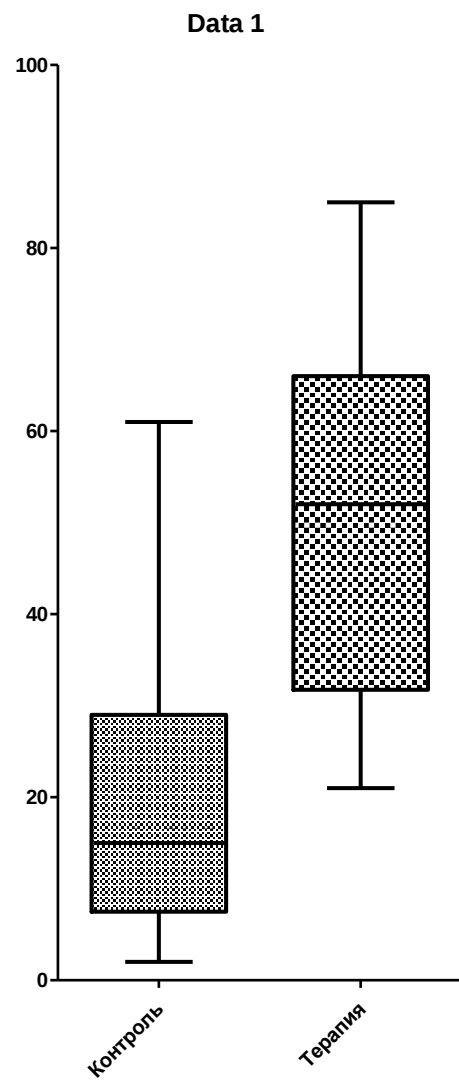
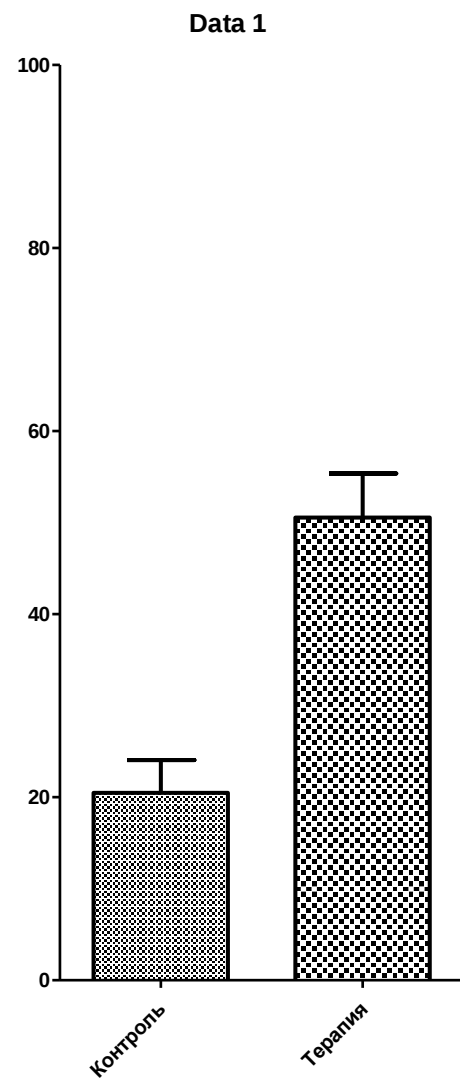
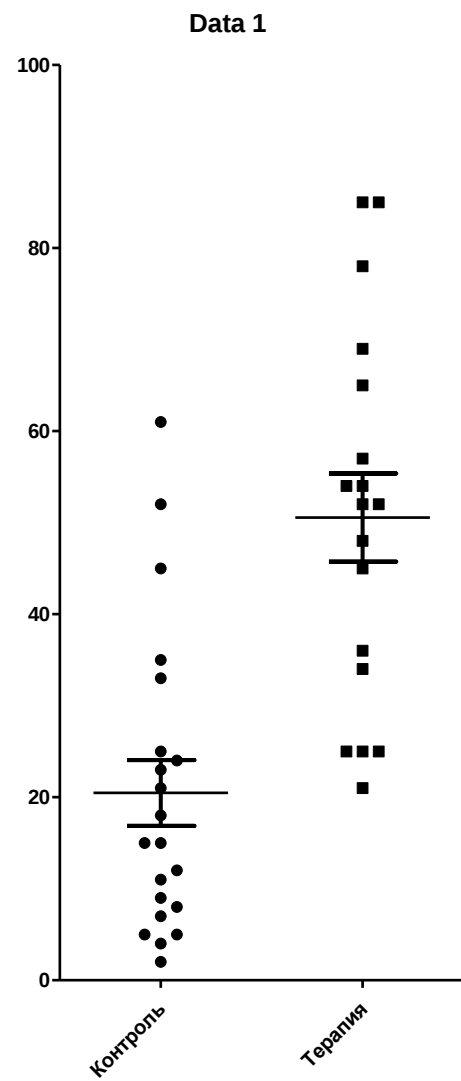


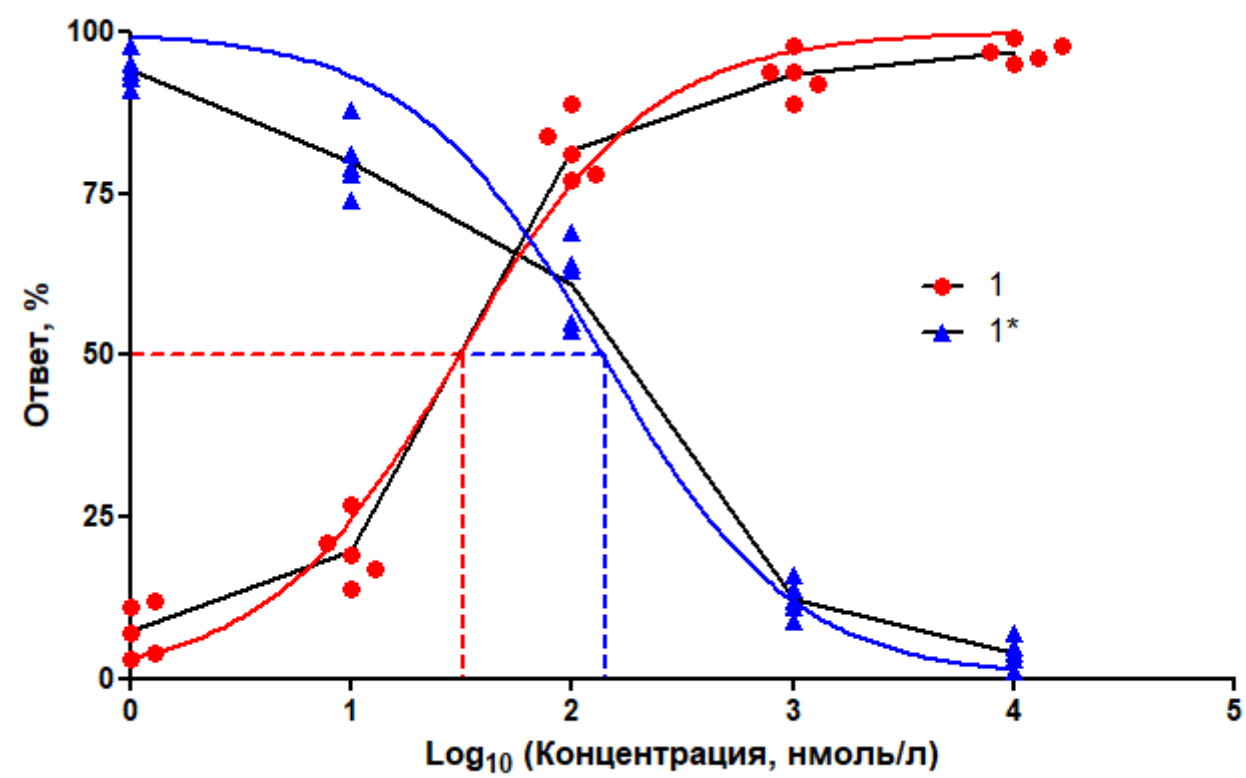






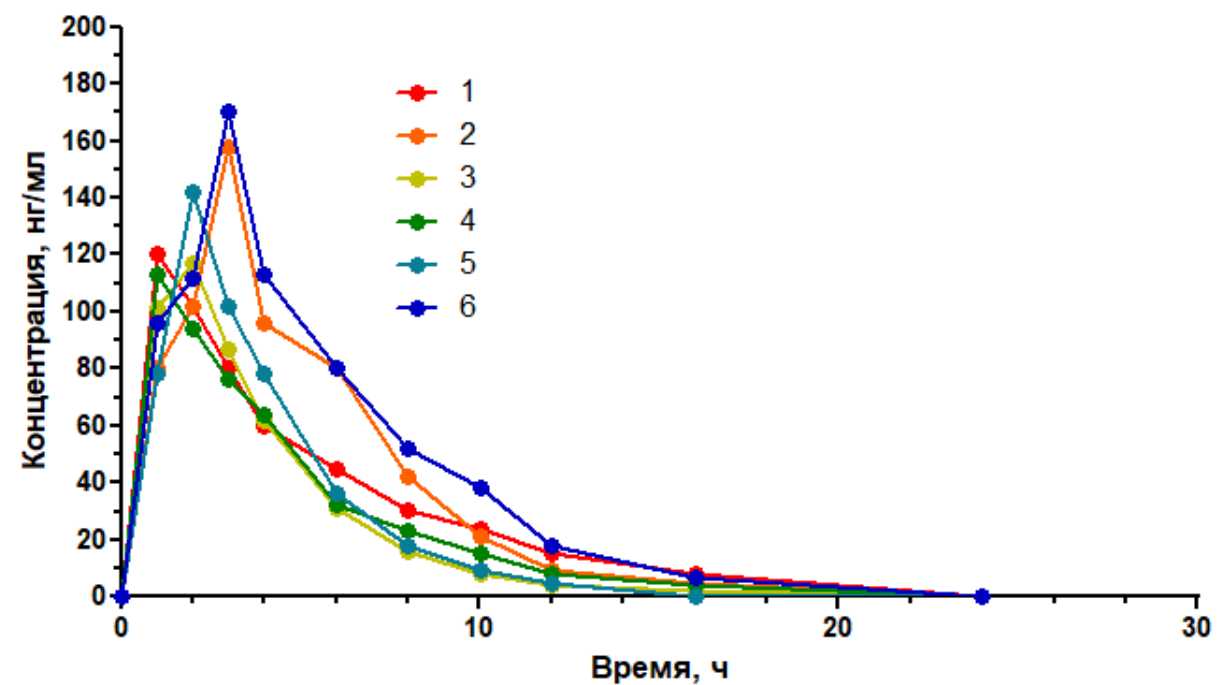
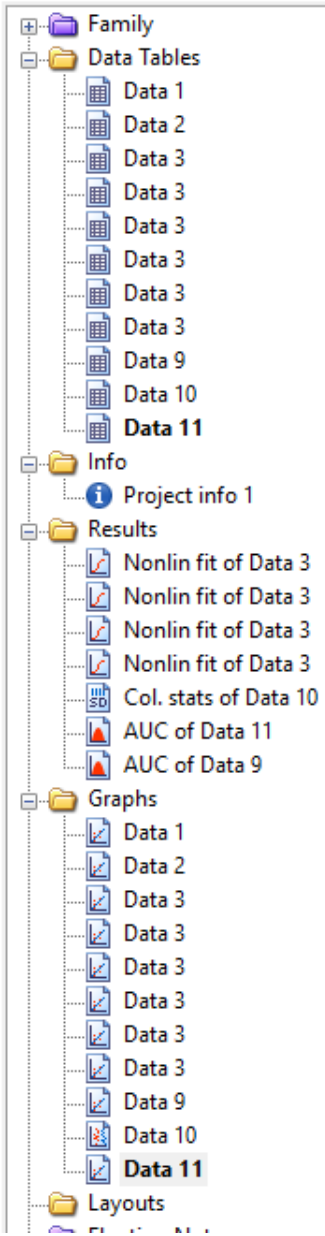
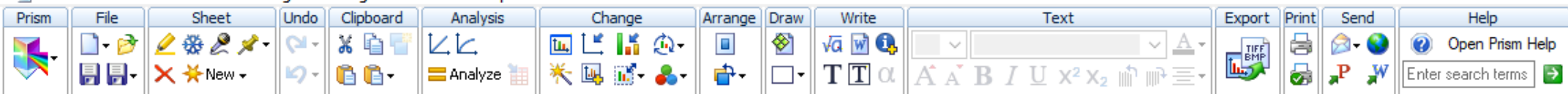


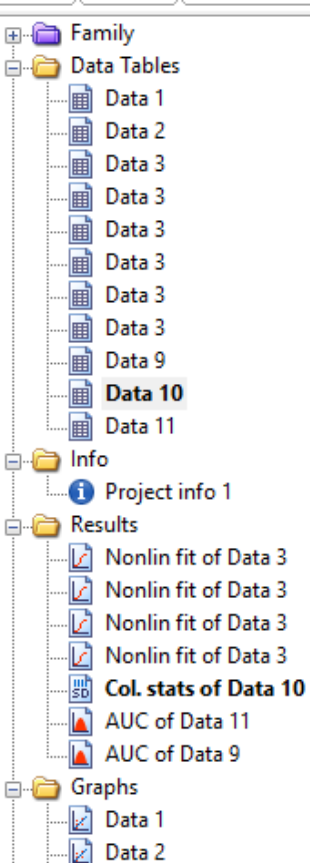
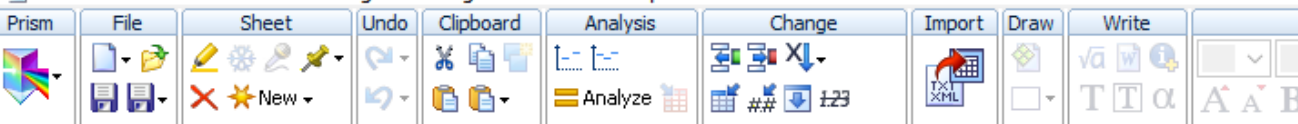




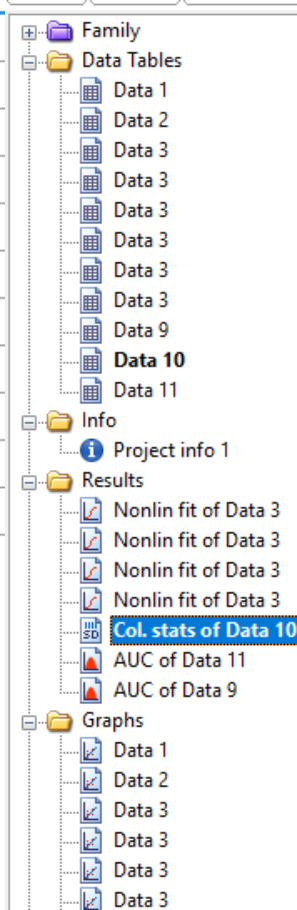
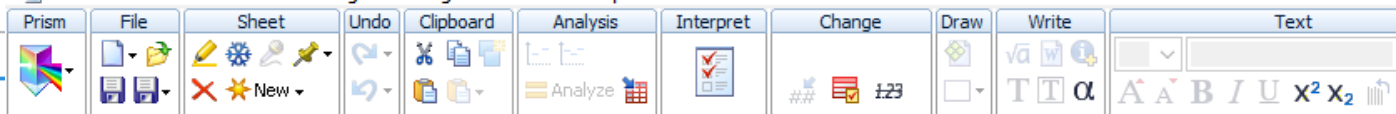
Nonlin fit		A
		1
		Y
1	log(agonist) vs. normalized res	
2	Best-fit values	
3	LOGEC50	1.484
4	EC50	30.51
5	Std. Error	
6	LOGEC50	0.04188
7	95% Confidence Intervals	
8	LOGEC50	1.398 to 1.571
9	EC50	25.01 to 37.23
10	Goodness of Fit	
11	Degrees of Freedom	24
12	R?	0.9794
13	Absolute Sum of Squares	763.6
14	Sy.x	5.641
15	Number of points	
16	Analyzed	25

Nonlin fit		A
		1*
		Y
1	log(inhibitor) vs. normalized res	
2	Best-fit values	
3	LOGIC50	2.135
4	IC50	136.6
5	Std. Error	
6	LOGIC50	0.05475
7	95% Confidence Intervals	
8	LOGIC50	2.022 to 2.248
9	IC50	105.3 to 177.2
10	Goodness of Fit	
11	Degrees of Freedom	24
12	R?	0.9565
13	Absolute Sum of Squares	1430
14	Sy.x	7.720
15	Number of points	
16	Analyzed	25





	A	B	C	D
	tmax	Cmax	AUC	Title
	Y	Y	Y	Y
1	1	120	683.0	
2	3	158	827.0	
3	2	117	532.0	
4	1	113	567.0	
5	2	142	580.0	
6	3	170	983.5	
7				
8				
9				
10				
11				
12				
13				
14				
15				



Col. stats		A	B	C
		tmax	Cmax	AUC
		Y	Y	Y
1	Number of values	6	6	6
2				
3	Minimum	1.000	113.0	532.0
4	25% Percentile	1.000	116.0	558.3
5	Median	2.000	131.0	631.5
6	75% Percentile	3.000	161.0	866.1
7	Maximum	3.000	170.0	983.5
8				
9	Mean	2.000	136.7	695.4
10	Std. Deviation	0.8944	23.75	177.2
11	Std. Error	0.3651	9.694	72.34
12				
13	Lower 95% CI of mean	1.061	111.7	509.5
14	Upper 95% CI of mean	2.939	161.6	881.4
15				
16	Coefficient of variation	44.72%	17.38%	25.48%
17				
18	Sum	12.00	820.0	4173

Analyze Data



Built-in analysis ▾

Which analysis?

[-] **Transform, Normalize...**

- Transform
- Normalize
- Prune rows
- Remove baseline and column math
- Transpose X and Y

[-] **XY analyses**

- Nonlinear regression (curve fit)
- Linear regression
- Fit spline/LOWESS
- Smooth, differentiate or integrate curve
- Area under curve
- Deming (Model II) linear regression
- Column statistics
- Row means/totals
- Correlation

[+] **Column analyses**[+] **Grouped analyses**[+] **Contingency table analyses**[+] **Survival analyses**[+] **Simulate and generate**[+] **Recently used**

Analyze which data sets?

- ☒ A:1
- ☒ B:2
- ☒ C:3
- ☒ D:4
- ☒ E:5
- ☒ F:6

Select All

Deselect All

Help

Cancel

OK

Analyze Data



Built-in analysis ▾

Which analysis?

- Nonlinear regression (curve fit)
- Linear regression
- Fit spline/LOWESS
- Smooth, differentiate or integrate curve
- Area under curve
- Deming (Model II) linear regression
- Column statistics
- Row means/totals
- Correlation

[-] **Column analyses**

- t tests (and nonparametric tests)
- One-way ANOVA (and nonparametric)
- Column statistics
- Frequency distribution
- ROC Curve
- Bland-Altman method comparison
- Correlation

[+] **Grouped analyses**[+] **Contingency table analyses**[+] **Survival analyses**[+] **Simulate and generate**[+] **Recently used**

Analyze which data sets?

- ☒ A:1
- ☒ B:2
- ☒ C:3
- ☒ D:4
- ☒ E:5
- ☒ F:6

Select All

Deselect All

Help

Cancel

OK