



Л е к ц и я № 9

Преобразование данных

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Для студентов, обучающихся по направлению 06.03.01 «Биология»
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П л а н л е к ц и и

- Что такое преобразования данных
- Цель преобразования данных
- Основные элементарные функции
- Пример преобразования данных
- Использование в пошаговой регрессии
- Применение в дискриминантном анализе

Преобразование данных

Применение заданной математической функции к каждой точке множества данных

$$z_i = f(x_i), \quad i = 1 \dots N$$

Основные элементарные функции

Степенные

$$X^2 = \text{СТЕПЕНЬ}(X; 2)$$

$$X^3 = \text{СТЕПЕНЬ}(X; 3)$$

$$\sqrt{X} = \text{КОРЕНЬ}(X)$$

Основные элементарные функции

Обратные степенные

$$1/X = 1/X$$

$$1/X^2 = \text{СТЕПЕНЬ}(X; -2)$$

$$1/X^3 = \text{СТЕПЕНЬ}(X; -3)$$

$$1/\sqrt{X} = 1/\text{КОРЕНЬ}(X)$$

Основные элементарные функции

Показательные

$$e^x = \text{EXP}(X)$$

$$e^{-x} = \text{EXP}(-X)$$

Основные элементарные функции

Логарифмическая

$$\text{Log}(X) = \text{LOG}_{10}(X)$$

Исходные данные

Code	SERT	SERT_h-nh	SERT_2-1	NET	5-HT3A	ADRA1A	CHRM1	DRD1	DRD2	DAT	GABA-A	GABA	GABA-A Benz	GAT1	JAK3	CAPN1	CFD
LT-47	-8.9	h	2	-8.5	-6.5	-7.9	-7.1	-8.2	-8.7	-8.3	-6.2		-6.7	-7.5	-8.5	-6.4	-6.3
LT-51	-8.9	h	2	-8.4	-6.7	-7.4	-6.6	-8.1	-8.6	-8.3	-6.1		-6.5	-7.4	-8.4	-6.8	-6.1
LT-52	-8.9	h	2	-8.6	-7.1	-8.2	-7.0	-9.4	-9.2	-8.6	-6.4		-6.8	-8.2	-8.6	-7.5	-6.4
L-91	-8.7	h	2	-8.6	-6.9	-6.9	-8.3	-9.2	-8.7	-8.9	-6.1		-6.4	-7.5	-8.2	-7.0	-6.3
LT-13	-8.7	h	2	-8.6	-7.2	-8.2	-7.2	-9.0	-8.9	-8.7	-6.3		-6.5	-7.5	-8.2	-6.4	-5.8
LT-23	-8.7	h	2	-8.5	-6.8	-7.0	-7.7	-8.8	-8.2	-8.4	-6.1		-6.4	-7.6	-8.1	-7.0	-6.0
LT-48	-8.7	h	2	-8.5	-6.4	-7.4	-6.8	-8.4	-8.6	-8.2	-6.2		-6.6	-7.6	-8.0	-6.6	-6.1
LT-46	-8.6	h	2	-8.2	-6.2	-7.8	-7.8	-7.9	-8.3	-7.9	-6.0		-6.4	-7.4	-8.2	-6.2	-6.0
H-16	-8.5	h	2	-8.3	-6.5	-7.1	-6.6	-8.0	-8.1	-8.1	-5.7		-6.1	-7.3	-8.0	-6.6	-6.4
H-88	-8.5	h	2	-8.6	-7.0	-7.3	-8.0	-9.3	-8.4	-8.0	-6.1		-6.4	-7.2	-7.9	-6.8	-6.3
LT-22	-8.5	h	2	-8.5	-6.9	-7.4	-8.3	-9.0	-8.3	-8.4	-6.0		-6.3	-7.5	-8.2	-6.8	-6.5
LT-49	-8.5	h	2	-9.0	-6.6	-7.0	-6.8	-8.4	-8.5	-8.4	-6.0		-6.3	-7.6	-8.0	-6.3	-6.3
L-87	-8.4	h	2	-8.5	-7.0	-7.5	-7.8	-8.6	-8.5	-8.9	-6.2		-6.4	-7.3	-8.2	-6.9	-6.3
LT-55	-8.4	h	2	-8.6	-7.0	-7.5	-7.3	-8.5	-8.3	-9.1	-6.1		-6.4	-7.8	-8.1	-6.7	-6.0
LT-9	-8.4	h	2	-8.6	-6.8	-7.4	-8.0	-8.4	-8.2	-8.4	-6.1		-6.4	-6.9	-7.7	-6.3	-6.0
L-20	-8.3	h	2	-8.4	-6.6	-7.1	-7.3	-8.2	-8.3	-8.1	-6.0		-6.3	-7.4	-8.1	-6.6	-6.1
L-31	-8.3	h	2	-8.4	-6.9	-7.4	-7.8	-8.0	-8.4	-8.1	-6.2		-6.6	-7.4	-8.0	-6.4	-6.6
L-86	-8.3	h	2	-8.3	-6.8	-6.8	-8.5	-8.9	-8.2	-8.6	-6.1		-6.2	-7.2	-8.0	-6.9	-6.2
LT-21	-8.3	h	2	-8.6	-6.8	-7.1	-8.2	-8.8	-8.2	-8.1	-6.0		-6.2	-7.3	-8.0	-6.9	-6.1
LTG-2	-8.3	h	2	-7.8	-6.8	-6.9	-7.3	-7.9	-8.0	-7.4	-6.2		-6.5	-8.1	-8.4	-6.9	-6.8
L-19	-8.2	h	2	-8.3	-6.6	-7.1	-6.7	-8.3	-8.1	-7.9	-6.2		-6.4	-7.6	-7.9	-6.6	-6.1
LT-24	-8.2	h	2	-8.8	-7.1	-6.8	-7.9	-8.8	-8.5	-8.2	-5.9		-6.3	-7.4	-7.9	-6.5	-6.4
LT-33	-8.2	h	2	-8.0	-6.1	-7.2	-7.0	-7.9	-7.9	-7.7	-5.8		-5.9	-7.1	-8.0	-6.1	-5.5
L-17	-8.1	nh	1	-8.0	-6.6	-7.4	-8.3	-8.1	-7.9	-7.8	-6.1		-6.3	-7.4	-8.0	-6.5	-6.0
LT-34	-8.1	nh	1	-8.2	-6.3	-7.6	-6.5	-8.3	-8.1	-7.9	-6.0		-6.3	-7.1	-8.1	-6.3	-6.1
LT-36	-8.1	nh	1	-8.2	-6.3	-7.1	-6.2	-7.8	-8.1	-7.7	-5.8		-6.0	-7.0	-8.1	-6.7	-5.9
LT-50	-8.1	nh	1	-8.7	-6.6	-7.4	-6.8	-8.3	-8.5	-7.9	-6.2		-6.4	-7.5	-7.9	-5.9	-6.4
LT-5	-8.1	nh	1	-8.5	-6.5	-7.1	-8.0	-8.1	-7.9	-8.0	-5.8		-6.2	-7.0	-7.5	-6.1	-5.6
H-18	-8.0	nh	1	-8.6	-6.7	-6.8	-6.6	-8.2	-8.0	-8.2	-6.1		-6.3	-7.4	-7.9	-6.3	-6.4
H-69	-7.9	nh	1	-8.2	-6.5	-7.1	-6.5	-8.0	-8.1	-8.1	-5.9		-6.2	-7.4	-7.8	-6.3	-6.4
LT-30	-7.9	nh	1	-7.6	-6.1	-6.5	-7.2	-7.8	-7.2	-7.5	-5.6		-6.0	-7.0	-7.5	-6.0	-6.1
LT-31	-7.8	nh	1	-7.8	-6.1	-6.1	-5.9	-7.8	-7.2	-7.3	-5.6		-5.9	-7.1	-7.6	-6.1	-5.7
LT-35	-7.8	nh	1	-8.1	-6.2	-7.0	-6.5	-8.5	-8.2	-8.0	-6.0		-6.3	-7.0	-7.8	-6.6	-5.9
LT-39	-7.8	nh	1	-8.2	-6.2	-6.7	-6.3	-8.4	-8.1	-8.2	-5.7		-6.1	-7.3	-7.6	-6.2	-5.8
LT-29	-7.7	nh	1	-7.3	-5.9	-6.3	-6.8	-7.7	-6.8	-7.2	-5.6		-5.8	-7.1	-7.2	-6.0	-5.8
LT-32	-7.6	nh	1	-7.7	-6.2	-6.0	-6.7	-7.6	-7.3	-7.6	-5.3		-5.7	-7.0	-7.4	-6.1	-5.8
LT-38	-7.6	nh	1	-9.3	-6.4	-7.1	-6.0	-8.2	-8.2	-8.1	-5.9		-6.2	-7.2	-7.6	-6.3	-5.8
LT-37	-7.5	nh	1	-9.3	-6.3	-7.0	-6.2	-8.3	-8.1	-8.1	-5.9		-6.2	-7.1	-7.7	-6.5	-5.7
H-42	-7.4	nh	1	-7.4	-6.0	-6.2	-6.4	-7.5	-7.3	-7.0	-5.4		-5.6	-7.0	-7.3	-6.3	-5.8
LT-53	-7.4	nh	1	-7.5	-6.1	-6.3	-6.8	-7.4	-7.4	-7.2	-5.6		-5.9	-7.0	-7.4	-6.3	-5.9
H-29	-7.1	nh	1	-7.1	-5.5	-6.2	-7.6	-7.1	-7.1	-6.7	-5.3		-5.6	-6.6	-6.8	-5.9	-5.5

Пример преобразования

SERT	JAK3	X^2	X^3	$ X ^{1/2}$	$1/X$	$1/X^2$	$1/X^3$	$1/X^{1/2}$	$\log(X)$	e^X	e^{-X}
-8.9	-8.5	72.3	-614.1	2.92	-0.118	1.38E-02	-1.63E-03	0.343	0.929	2.03E-04	4914.8
-8.9	-8.4	70.6	-592.7	2.90	-0.119	1.42E-02	-1.69E-03	0.345	0.924	2.25E-04	4447.1
-8.9	-8.6	74.0	-636.1	2.93	-0.116	1.35E-02	-1.57E-03	0.341	0.934	1.84E-04	5431.7
-8.7	-8.2	67.2	-551.4	2.86	-0.122	1.49E-02	-1.81E-03	0.349	0.914	2.75E-04	3641.0
-8.7	-8.2	67.2	-551.4	2.86	-0.122	1.49E-02	-1.81E-03	0.349	0.914	2.75E-04	3641.0
-8.7	-8.1	65.6	-531.4	2.85	-0.123	1.52E-02	-1.88E-03	0.351	0.908	3.04E-04	3294.5
-8.7	-8.0	64.0	-512.0	2.83	-0.125	1.56E-02	-1.95E-03	0.354	0.903	3.35E-04	2981.0
-8.6	-8.2	67.2	-551.4	2.86	-0.122	1.49E-02	-1.81E-03	0.349	0.914	2.75E-04	3641.0
-8.5	-8.0	64.0	-512.0	2.83	-0.125	1.56E-02	-1.95E-03	0.354	0.903	3.35E-04	2981.0
-8.5	-7.9	62.4	-493.0	2.81	-0.127	1.60E-02	-2.03E-03	0.356	0.898	3.71E-04	2697.3
-8.5	-8.2	67.2	-551.4	2.86	-0.122	1.49E-02	-1.81E-03	0.349	0.914	2.75E-04	3641.0
-8.5	-8.0	64.0	-512.0	2.83	-0.125	1.56E-02	-1.95E-03	0.354	0.903	3.35E-04	2981.0
-8.4	-8.2	67.2	-551.4	2.86	-0.122	1.49E-02	-1.81E-03	0.349	0.914	2.75E-04	3641.0
-8.4	-8.1	65.6	-531.4	2.85	-0.123	1.52E-02	-1.88E-03	0.351	0.908	3.04E-04	3294.5
-8.4	-7.7	59.3	-456.5	2.77	-0.130	1.69E-02	-2.19E-03	0.360	0.886	4.53E-04	2208.3
-8.3	-8.1	65.6	-531.4	2.85	-0.123	1.52E-02	-1.88E-03	0.351	0.908	3.04E-04	3294.5
-8.3	-8.0	64.0	-512.0	2.83	-0.125	1.56E-02	-1.95E-03	0.354	0.903	3.35E-04	2981.0
-8.3	-8.0	64.0	-512.0	2.83	-0.125	1.56E-02	-1.95E-03	0.354	0.903	3.35E-04	2981.0
-8.3	-8.0	64.0	-512.0	2.83	-0.125	1.56E-02	-1.95E-03	0.354	0.903	3.35E-04	2981.0
-8.3	-8.4	70.6	-592.7	2.90	-0.119	1.42E-02	-1.69E-03	0.345	0.924	2.25E-04	4447.1
-8.2	-7.9	62.4	-493.0	2.81	-0.127	1.60E-02	-2.03E-03	0.356	0.898	3.71E-04	2697.3
-8.2	-7.9	62.4	-493.0	2.81	-0.127	1.60E-02	-2.03E-03	0.356	0.898	3.71E-04	2697.3

Полная преобразованная таблица

143 независимых переменных

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1	Code	SERT	NET	5-HT3A	ADRA1A	CHRM1	DRD1	DRD2	DAT	GABA-A GABA	GABA-A Benz	GAT1	JAK3	CAPN1	CFD	X2	X2 5-HT3A	X2 ADRA1A	X2 CHRM1	X2 DRD1	X2 DRD2	X2 DAT	X2 GABA-A GABA	X2 GABA-A Benz	X2 GAT1	X2 JAK3	X2 CAPN1	X2 CFD	X3	X3 5-HT3A	X3 ADRA1A	X3 CHRM1	X3 DRD1	X3 DRD2	X3 DAT
2	LT-47	-8.9	-8.5	-6.5	-7.9	-7.1	-8.2	-8.7	-8.3	-6.2	-6.7	-7.5	-8.5	-6.4	-6.3	72.3	42.3	62.4	50.4	67.2	75.7	68.9	38.4	44.2	56.3	72.3	41.0	39.7	-614.1	-274.6	-493.0	-357.9	-551.4	-658.5	-571.8
3	LT-51	-8.9	-8.4	-6.7	-7.4	-6.6	-8.1	-8.6	-8.3	-6.1	-6.5	-7.4	-8.4	-6.8	-6.1	70.6	44.9	54.8	43.6	65.6	74.0	68.9	37.2	41.6	54.8	70.6	46.2	37.2	-592.7	-300.8	-405.2	-287.5	-531.4	-636.1	-571.8
4	LT-52	-8.9	-8.6	-7.1	-8.2	-7.0	-9.4	-9.2	-8.6	-6.4	-6.8	-8.2	-8.6	-7.5	-6.4	74.0	50.4	67.2	49.0	88.4	84.6	74.0	41.0	46.2	67.2	74.0	56.3	41.0	-636.1	-357.9	-551.4	-343.0	-830.6	-778.7	-636.1
5	L-91	-8.7	-8.6	-6.9	-6.9	-8.3	-9.2	-8.7	-8.9	-6.1	-6.4	-7.5	-8.2	-7.0	-6.3	74.0	47.6	67.6	68.9	84.6	75.7	79.2	37.2	40.3	56.3	67.2	49.0	39.7	-636.1	-328.5	-328.5	-571.8	-778.7	-658.5	-705.0
6	LT-13	-8.7	-8.6	-7.2	-8.2	-7.2	-8.0	-8.9	-8.7	-6.3	-6.5	-7.5	-8.2	-6.4	-5.8	74.0	51.8	67.2	51.8	81.0	79.2	75.7	39.1	41.6	56.3	67.2	41.0	33.6	-636.1	-373.2	-551.4	-373.2	-729.0	-705.0	-658.5
7	LT-23	-8.7	-8.5	-6.8	-7.0	-7.7	-8.8	-8.2	-8.4	-6.1	-6.4	-7.6	-8.1	-7.0	-6.0	72.3	46.2	68.0	59.3	77.4	67.2	70.6	36.6	41.0	57.8	65.6	49.0	36.0	-614.1	-314.4	-343.0	-466.5	-681.5	-551.4	-592.7
8	LT-40	-8.7	-8.5	-6.4	-7.4	-6.8	-8.4	-8.6	-8.2	-6.2	-6.6	-7.6	-8.0	-6.6	-6.1	72.3	41.0	54.8	46.2	70.6	74.0	67.2	38.4	43.6	57.8	64.0	43.6	37.2	-614.1	-262.1	-405.2	-314.4	-592.7	-636.1	-551.4
9	LT-46	-8.6	-8.2	-6.2	-7.8	-7.8	-7.9	-8.3	-7.9	-6.0	-6.4	-7.4	-8.2	-6.2	-6.0	67.2	38.4	60.8	60.8	62.4	68.9	62.4	26.0	41.0	54.8	67.2	38.4	36.0	-551.4	-238.3	-474.6	-474.6	-493.0	-571.8	-493.0
10	H-16	-8.5	-8.3	-6.5	-7.1	-6.6	-8.0	-8.1	-8.1	-5.7	-6.1	-7.3	-8.0	-6.6	-6.4	68.9	42.3	50.4	43.6	64.0	65.6	65.6	32.6	37.2	53.3	64.0	43.6	41.0	-571.8	-274.6	-357.9	-287.5	-512.0	-531.4	-531.4
11	H-88	-8.5	-8.6	-7.0	-7.3	-8.0	-9.3	-8.4	-8.0	-6.1	-6.4	-7.2	-7.9	-6.8	-6.3	74.0	49.0	53.3	64.0	86.5	70.6	64.0	36.6	40.3	51.8	62.4	46.2	39.7	-636.1	-343.0	-389.0	-512.0	-804.4	-592.7	-512.0
12	LT-22	-8.5	-8.5	-6.9	-7.4	-8.3	-9.0	-8.3	-8.4	-6.0	-6.3	-7.5	-8.2	-6.8	-6.5	72.3	47.6	54.8	68.9	81.0	68.9	70.6	35.4	39.1	56.3	67.2	46.2	42.3	-614.1	-328.5	-405.2	-571.8	-729.0	-571.8	-592.7
13	LT-49	-8.5	-8.0	-6.6	-7.0	-6.8	-8.4	-8.5	-8.4	-6.0	-6.3	-7.6	-8.0	-6.3	-6.3	81.0	43.6	49.0	46.2	70.6	72.3	70.6	35.4	39.7	57.8	64.0	39.7	39.7	-729.0	-287.5	-343.0	-314.4	-592.7	-614.1	-592.7
14	L-87	-8.4	-8.5	-7.0	-7.5	-7.8	-8.6	-8.5	-8.9	-6.2	-6.4	-7.3	-8.2	-6.9	-6.3	72.3	49.0	56.3	60.8	74.0	72.3	79.2	37.8	41.0	53.3	67.2	47.6	39.7	-614.1	-343.0	-421.9	-474.6	-636.1	-614.1	-705.0
15	LT-55	-8.4	-8.6	-7.0	-7.5	-7.3	-8.5	-8.3	-9.1	-6.1	-6.4	-7.8	-8.1	-6.7	-6.0	74.0	49.0	56.3	53.3	72.3	68.9	82.8	36.6	40.3	60.8	65.6	44.9	36.0	-636.1	-343.0	-421.9	-389.0	-614.1	-571.8	-753.6
16	LT-9	-8.4	-8.6	-6.8	-7.4	-8.0	-8.4	-8.2	-8.4	-6.1	-6.4	-6.9	-7.7	-6.3	-6.0	74.0	46.2	54.8	64.0	70.6	67.2	70.6	37.2	41.0	47.6	59.3	39.7	36.0	-636.1	-314.4	-405.2	-512.0	-592.7	-571.8	-592.7
17	L-20	-8.3	-8.4	-6.6	-7.1	-7.3	-8.2	-8.3	-8.1	-6.0	-6.3	-7.4	-8.1	-6.6	-6.1	70.6	43.6	50.4	53.3	67.2	68.9	65.6	35.4	39.1	54.8	65.6	43.6	37.2	-592.7	-287.5	-357.9	-389.0	-551.4	-571.8	-531.4
18	L-31	-8.3	-8.4	-6.9	-7.4	-7.8	-8.0	-8.4	-8.1	-6.2	-6.6	-7.4	-8.0	-6.4	-6.6	70.6	47.6	54.8	60.8	64.0	70.6	65.6	38.4	42.9	54.8	64.0	41.0	43.6	-592.7	-328.5	-405.2	-474.6	-512.0	-592.7	-531.4
19	L-86	-8.3	-8.3	-6.8	-6.8	-8.5	-8.9	-8.2	-8.6	-6.1	-6.2	-7.2	-8.0	-6.9	-6.2	68.9	46.2	46.2	72.3	79.2	67.2	74.0	37.2	38.4	51.8	64.0	47.6	38.4	-571.8	-314.4	-314.4	-614.1	-705.0	-551.4	-636.1
20	LT-21	-8.3	-8.6	-6.8	-7.1	-8.2	-8.8	-8.2	-8.1	-6.0	-6.2	-7.3	-8.0	-6.9	-6.1	74.0	46.2	50.4	67.2	77.4	67.2	65.6	36.0	38.4	53.3	64.0	47.6	37.2	-636.1	-314.4	-357.9	-551.4	-651.5	-551.4	-531.4
21	LTG-2	-8.3	-7.8	-6.8	-6.9	-7.3	-7.9	-8.0	-7.4	-6.2	-6.5	-8.1	-8.4	-6.9	-6.8	80.8	46.2	47.6	53.3	62.4	64.0	54.8	38.4	41.6	65.6	70.6	47.6	46.2	-474.6	-314.4	-328.5	-369.0	-493.0	-512.0	-495.2
22	L-19	-8.2	-8.3	-6.6	-7.1	-6.7	-8.3	-8.1	-7.9	-6.2	-6.4	-7.6	-7.9	-6.6	-6.1	68.9	43.6	50.4	44.9	68.9	65.6	62.4	37.8	41.0	57.8	62.4	43.6	37.2	-571.8	-287.5	-357.9	-300.8	-571.8	-531.4	-493.0
23	LT-24	-8.2	-8.8	-7.1	-6.8	-7.9	-8.8	-8.5	-8.2	-5.9	-6.3	-7.4	-7.9	-6.5	-6.4	77.4	50.4	46.2	62.4	77.4	72.3	67.2	34.2	39.1	54.8	62.4	42.3	41.0	-681.5	-357.9	-314.4	-493.0	-681.5	-614.1	-551.4
24	LT-33	-8.2	-8.0	-6.1	-7.2	-7.0	-7.9	-7.9	-7.7	-5.8	-5.9	-7.1	-8.0	-6.1	-5.5	64.0	37.2	51.8	49.0	62.4	62.4	59.3	33.6	34.8	50.4	64.0	37.2	30.3	-512.0	-227.0	-373.2	-343.0	-493.0	-493.0	-466.5
25	L-17	-8.1	-8.0	-6.6	-7.4	-8.3	-8.1	-7.9	-7.8	-6.1	-6.3	-7.4	-8.0	-6.5	-6.0	64.0	43.6	54.8	68.9	65.6	62.4	60.8	37.2	39.7	54.8	64.0	42.3	36.0	-512.0	-287.5	-405.2	-571.8	-531.4	-493.0	-474.6
26	LT-34	-8.1	-8.2	-6.3	-7.6	-6.5	-8.3	-8.1	-7.9	-6.0	-6.3	-7.1	-8.1	-6.3	-6.1	67.2	39.7	57.8	42.3	68.9	65.6	62.4	35.4	39.1	50.4	65.6	39.7	37.2	-551.4	-250.0	-439.0	-274.6	-571.8	-531.4	-493.0
27	LT-36	-8.1	-8.2	-6.3	-7.1	-6.2	-7.8	-8.1	-7.7	-5.8	-6.0	-7.0	-8.1	-6.7	-5.9	67.2	39.7	50.4	38.4	60.8	65.6	62.4	33.6	36.0	49.0	65.6	44.9	34.8	-551.4	-250.0	-357.9	-238.3	-474.6	-531.4	-466.5
28	LT-50	-8.1	-8.7	-6.6	-7.4	-6.8	-8.3	-8.5	-7.9	-6.2	-6.4	-7.5	-7.9	-5.9	-6.4	75.7	43.6	54.8	46.2	68.9	72.3	62.4	37.8	41.0	56.3	62.4	34.8	41.0	-668.5	-287.5	-405.2	-314.4	-571.8	-614.1	-493.0
29	LT-5	-8.1	-8.5	-6.5	-7.1	-6.8	-8.1	-7.9	-8.0	-5.8	-6.2	-7.0	-7.5	-6.1	-5.6	72.3	42.3	60.4	66.0	65.6	62.4	64.0	33.6	38.4	49.0	56.3	37.2	31.4	-614.1	-274.6	-357.9	-512.0	-531.4	-493.0	-512.0
30	H-18	-8.0	-8.6	-6.7	-6.8	-6.8	-8.2	-8.0	-8.2	-6.1	-6.3	-7.4	-7.9	-6.3	-6.4	74.0	44.9	46.2	43.6	67.2	64.0	67.2	37.2	39.1	54.8	62.4	39.7	41.0	-636.1	-300.8	-314.4	-287.5	-551.4	-512.0	-551.4
31	H-69	-7.9	-8.2	-6.5	-7.1	-6.5	-8.0	-8.1	-8.1	-5.9	-6.2	-7.4	-7.8	-6.3	-6.4	67.2	42.3	50.4	42.3	64.0	65.6	65.6	34.2	37.8	54.8	60.8	39.7	41.0	-551.4	-274.6	-357.9	-274.6	-512.0	-531.4	-531.4
32	LT-30	-7.9	-7.6	-6.1	-6.5	-7.2	-7.8	-7.2	-7.5	-5.6	-6.0	-7.0	-7.5	-6.0	-6.1	67.8	37.2	42.3	51.8	60.8	51.8	56.3	31.4	35.4	49.0	56.3	36.0	37.2	-439.0	-227.0	-274.6	-373.2	-474.6	-373.2	-421.9
33	LT-31	-7.8	-7.8	-6.1	-6.1	-5.9	-7.8	-7.2	-7.3	-5.6	-5.9	-7.1	-7.6	-6.1	-6.7	60.8	37.2	37.2	34.8	60.8	51.8	53.3	31.4	34.8	50.4	57.8	37.2	32.5	-474.6	-227.0	-227.0	-205.4	-474.6	-373.2	-389.0
34	LT-35	-7.8	-8.1	-6.2	-7.0	-6.5	-8.5	-8.2	-8.0	-6.0	-6.3	-7.0	-7.8	-6.6	-5.9	65.6	38.4	49.0	42.3	72.3	67.2	64.0	36.0	39.1	49.0	60.8	43.6	34.8	-531.4	-238.3	-343.0	-274.6	-614.1	-551.4	-512.0
35	LT-39	-7.8	-8.2	-6.2	-6.7	-6.3	-8.4	-8.1	-8.2	-5.7	-6.1	-7.3	-7.6	-6.2	-5.8	67.2	38.4	44.9	39.7	70.6	65.6	67.2	32.6	36.6	53.3	57.8	38.4	33.6	-551.4	-238.3	-300.8	-250.0	-592.7	-531.4	-551.4
36	LT-29	-7.7	-7.3	-5.9	-6.3	-6.8	-7.7	-6.8	-7.2	-5.6	-5.8	-7.1	-7.2	-6.0	-5.8	53.3	34.8	39.7	46.2	59.3	46.2	51.8	30.8	33.1	50.4	51.8	36.0	33.6	-389.0	-205.4	-250.0	-314.4	-466.5	-314.4	-373.2
37	LT-32	-7.6	-7.7	-6.2	-6.0	-6.7	-7.6	-7.3	-7.6	-5.3	-5.7	-7.0	-7.4	-6.1	-5.8	69.3	38.4	36.0	44.9	57.8	53.3	57.8	27.6	31.9	49.0	54.8	37.2	33.6	-466.5	-238.3	-216.0	-300.8	-439.0	-389.0	-439.0
38	LT-38	-7.6	-9.3	-6.4	-7.1	-6.0	-8.2	-8.2	-8.1	-5.9	-6.2	-7.2	-7.6	-6.3	-5.8	86.5	41.0	50.4	36.0	67.2	67.2	65.6	34.2	37.8	51.8	57.8	39.7	33.6	-804.4	-262.1	-357.9	-216.0	-551.4	-551.4	-531.

Пошаговая регрессия

Multiple Regression Results: Docking TDAz_L17

Multiple Regression Results (Step 11)

Dependent: SERT

Multiple R = .95959906

F = 30.66382

R² = .92083035

df = 11, 29

No. of cases: 41

adjusted R² = .89080048

p = .000000

Standard error of estimate: .146338957

Intercept: -2.664385546

Std. Error: 1.743962

t(29) = -1.528

p = .1374

X2 JAK3 beta=-1.2

eX CHRM1 beta=.215

1/X3 DAT beta=.050

e-X GABA-A Be beta=-.49

e-X GABA-A GA beta=.440

eX DRD2 beta=-1.6

e-X CFD beta=.114

e-X JAK3 beta=.470

1/X3 DRD2 beta=-1.4

e-X beta=1.20

X3 beta=1.41

(significant betas are highlighted)

Alpha for highlighting effects: .05

Quick

Advanced

Residuals/assumptions/prediction

Summary: Regression results

Cancel

Options

By Group

Пошаговый дискриминантный анализ

Classification Matrix (Docking TDAz_L17)				
Rows: Observed classifications				
Columns: Predicted classifications				
Group	Percent Correct	G_1:1 p=.43902	G_2:2 p=.56098	
G_1:1	94.44444	17	1	
G_2:2	95.65218	1	22	
Total	95.12195	18	23	

Discriminant Function Analysis Summary (Docking TDAz_L17)						
Step 8, N of vars in model: 8; Grouping: SERT_2-1 (2 grps)						
Wilks' Lambda: .27376 approx. F (8,32)=10.611 p< .0000						
N=41	Wilks' Lambda	Partial Lambda	F-remove (1,32)	p-level	Toler.	1-Toler. (R-Sqr.)
X3 JAK3	0.302998	0.903506	3.417583	0.073764	0.347647	0.652353
CHRM1	0.284755	0.961390	1.285156	0.265364	0.000012	0.999988
X3 CHRM1	0.289450	0.945796	1.833939	0.185149	0.000011	0.999989
CAPN1	0.306698	0.892606	3.850067	0.058490	0.006507	0.993493
X3 CAPN1	0.304135	0.900127	3.550549	0.068638	0.006667	0.993333
X3 DRD2	0.300634	0.910612	3.141212	0.085859	0.320049	0.679951
ADRA1A	0.291234	0.940003	2.042454	0.162653	0.281650	0.718350
X2 CHRM1	0.287179	0.953273	1.568562	0.219492	0.000003	0.999997

To be continued ...

