
 Stepwise regression Vuln. genes vs pathology at time 2

1. Adding x7, FStat = 52.8643, pValue = 4.65713e-12

mdl =

Linear regression model:

$y \sim 1 + x7$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.05655	0.02038	-2.7748	0.0059438
x7	0.50968	0.070099	7.2708	4.6571e-12

Number of observations: 250, Error degrees of freedom: 248

Root Mean Squared Error: 0.21

R-squared: 0.176, Adjusted R-Squared 0.172

F-statistic vs. constant model: 52.9, p-value = 4.66e-12

 Stepwise regression Vuln. genes vs pathology at time 4

1. Adding x9, FStat = 194.2731, pValue = 5.33475e-33

2. Adding x7, FStat = 59.7007, pValue = 2.7694e-13

3. Adding x14, FStat = 24.0339, pValue = 1.71993e-06

mdl =

Linear regression model:

$y \sim 1 + x7 + x9 + x14$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.23823	0.034904	-6.8254	6.7945e-11
x7	0.48573	0.072187	6.7288	1.1928e-10
x9	0.86167	0.081632	10.556	9.9864e-22
x14	0.41402	0.084451	4.9024	1.7199e-06

Number of observations: 250, Error degrees of freedom: 246

Root Mean Squared Error: 0.199

R-squared: 0.589, Adjusted R-Squared 0.584

F-statistic vs. constant model: 117, p-value = 3.46e-47

Stepwise regression Vuln. genes vs pathology at time 6

1. Adding x9, FStat = 194.3202, pValue = 5.264423e-33
2. Adding x7, FStat = 58.8765, pValue = 3.88188e-13
3. Adding x14, FStat = 28.4994, pValue = 2.12968e-07

mdl =

Linear regression model:

$$y \sim 1 + x7 + x9 + x14$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.27465	0.039903	-6.883	4.843e-11
x7	0.5478	0.082525	6.638	2.0157e-10
x9	0.98152	0.093322	10.517	1.3197e-21
x14	0.51541	0.096546	5.3385	2.1297e-07

Number of observations: 250, Error degrees of freedom: 246

Root Mean Squared Error: 0.227

R-squared: 0.594, Adjusted R-Squared 0.589

F-statistic vs. constant model: 120, p-value = 6.35e-48

Stepwise regression Vuln. genes vs pathology at time 8

1. Adding x9, FStat = 195.0446, pValue = 4.293155e-33
2. Adding x7, FStat = 58.1532, pValue = 5.22543e-13
3. Adding x14, FStat = 24.2021, pValue = 1.5885e-06

mdl =

Linear regression model:

$$y \sim 1 + x7 + x9 + x14$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.25288	0.042413	-5.9624	8.5844e-09
x7	0.58111	0.087717	6.6247	2.1753e-10
x9	1.0493	0.099194	10.578	8.4578e-22
x14	0.50485	0.10262	4.9196	1.5885e-06

Number of observations: 250, Error degrees of freedom: 246

Root Mean Squared Error: 0.242

R-squared: 0.587, Adjusted R-Squared 0.582

F-statistic vs. constant model: 117, p-value = 4.81e-47

 Stepwise regression cell types vs pathology at time 2

1. Adding x10, FStat = 35.9348, pValue = 7.15746e-09
2. Adding x3, FStat = 18.7039, pValue = 2.21683e-05

mdl =

Linear regression model:

$$y \sim 1 + x3 + x10$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	0.033813	0.01547	2.1857	0.029778
x3	-0.53852	0.12452	-4.3248	2.2168e-05
x10	0.76176	0.10463	7.2803	4.4342e-12

Number of observations: 250, Error degrees of freedom: 247

Root Mean Squared Error: 0.208

R-squared: 0.188, Adjusted R-Squared 0.181

F-statistic vs. constant model: 28.6, p-value = 6.72e-12

 Stepwise regression cell types vs pathology at time 4

1. Adding x9, FStat = 148.963, pValue = 3.813018e-27
2. Adding x6, FStat = 35.74, pValue = 7.84688e-09
3. Adding x16, FStat = 27.643, pValue = 3.16796e-07

mdl =

Linear regression model:

$$y \sim 1 + x6 + x9 + x16$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.059704	0.021268	-2.8072	0.0053973
x6	0.3528	0.057196	6.1683	2.8173e-09
x9	0.53058	0.070875	7.4861	1.2624e-12
x16	0.45979	0.087451	5.2577	3.168e-07

Number of observations: 250, Error degrees of freedom: 246

Root Mean Squared Error: 0.217

R-squared: 0.509, Adjusted R-Squared 0.503

F-statistic vs. constant model: 85.1, p-value = 8.27e-38

 Stepwise regression cell types vs pathology at time 6

1. Adding x9, FStat = 188.1784, pValue = 3.007557e-32
2. Adding x10, FStat = 40.9471, pValue = 7.79277e-10
3. Adding x16, FStat = 31.8695, pValue = 4.53155e-08
4. Adding x6, FStat = 22.7694, pValue = 3.14082e-06

mdl =

Linear regression model:

$$y \sim 1 + x6 + x9 + x10 + x16$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.069829	0.022015	-3.1719	0.0017075
x6	0.3012	0.063121	4.7717	3.1408e-06
x9	0.60625	0.074885	8.0957	2.6721e-14
x10	0.39548	0.083717	4.724	3.8975e-06
x16	0.5302	0.090592	5.8526	1.5447e-08

Number of observations: 250, Error degrees of freedom: 245

Root Mean Squared Error: 0.225

R-squared: 0.605, Adjusted R-Squared 0.598

F-statistic vs. constant model: 93.8, p-value = 2.94e-48

 Stepwise regression cell types vs pathology at time 8

1. Adding x9, FStat = 208.2751, pValue = 1.097535e-34
2. Adding x6, FStat = 39.6741, pValue = 1.36438e-09
3. Adding x16, FStat = 38.8523, pValue = 1.97226e-09
4. Adding x13, FStat = 20.058, pValue = 1.15266e-05

mdl =

Linear regression model:

$$y \sim 1 + x6 + x9 + x13 + x16$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.072006	0.022891	-3.1456	0.001862
x6	0.34853	0.062603	5.5673	6.7791e-08
x9	0.63535	0.079275	8.0146	4.5132e-14
x13	0.36704	0.081955	4.4786	1.1527e-05

x16 0.60602 0.092829 6.5284 3.7977e-10

Number of observations: 250, Error degrees of freedom: 245
 Root Mean Squared Error: 0.23
 R-squared: 0.626, Adjusted R-Squared 0.62
 F-statistic vs. constant model: 103, p-value = 3.49e-51

 Stepwise regression Vuln. genes vs pathology at time 2

No terms to add to or remove from initial model.

mdl =

Linear regression model:
 $y \sim 1$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	0.056	0.014571	3.8433	0.00015414

Number of observations: 250, Error degrees of freedom: 249
 Root Mean Squared Error: 0.23

 Stepwise regression Vuln. genes vs pathology at time 4

1. Adding x2, FStat = 28.7596, pValue = 1.87642e-07

mdl =

Linear regression model:
 $y \sim 1 + x2$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.24609	0.080122	-3.0715	0.0023675
x2	0.67089	0.1251	5.3628	1.8764e-07

Number of observations: 250, Error degrees of freedom: 248
 Root Mean Squared Error: 0.292
 R-squared: 0.104, Adjusted R-Squared 0.1
 F-statistic vs. constant model: 28.8, p-value = 1.88e-07

Stepwise regression Vuln. genes vs pathology at time 6

1. Adding x2, FStat = 35.1741, pValue = 1.0071e-08

mdl =

Linear regression model:

$y \sim 1 + x2$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.31619	0.091181	-3.4677	0.00061861
x2	0.84436	0.14237	5.9308	1.0071e-08

Number of observations: 250, Error degrees of freedom: 248

Root Mean Squared Error: 0.333

R-squared: 0.124, Adjusted R-Squared 0.121

F-statistic vs. constant model: 35.2, p-value = 1.01e-08

Stepwise regression Vuln. genes vs pathology at time 8

1. Adding x2, FStat = 32.3245, pValue = 3.6554e-08

mdl =

Linear regression model:

$y \sim 1 + x2$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.28978	0.096608	-2.9996	0.0029789
x2	0.85761	0.15084	5.6855	3.6554e-08

Number of observations: 250, Error degrees of freedom: 248

Root Mean Squared Error: 0.352

R-squared: 0.115, Adjusted R-Squared 0.112

F-statistic vs. constant model: 32.3, p-value = 3.66e-08

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