

PAPAGENA MAY 15, 2009

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9500	0.8037	0.1649	0.9957	0.8351	0.0043	0.1963	0.0500	2.18	12.410
SCAD	0.8418	0.7954	0.1421	0.9879	0.8579	0.0121	0.2046	0.1582	2.18	12.504
LASSO	0.8426	0.9124	0.2572	0.9895	0.7428	0.0105	0.0876	0.1574	2.18	6.330
LARS	0.8426	0.9125	0.2573	0.9895	0.7427	0.0105	0.0875	0.1574	2.18	6.328
GSDS	0.9803	0.7860	0.1848	0.9987	0.8152	0.0013	0.2140	0.0197	2.18	13.520
GSR2-r	0.8059	0.9590	0.4994	0.9879	0.5006	0.0121	0.0410	0.1941	2.18	3.758
GSR2	0.8003	0.9602	0.5024	0.9875	0.4976	0.0125	0.0398	0.1997	2.18	3.674

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9337	0.8083	0.3564	0.9885	0.6436	0.0115	0.1917	0.0663	0.942	2.616
SCAD	0.7971	0.8060	0.3077	0.9682	0.6923	0.0318	0.1940	0.2029	0.942	2.462
LASSO	0.8103	0.9170	0.4931	0.9745	0.5069	0.0255	0.0830	0.1897	0.942	1.492
LARS	0.8103	0.9176	0.4946	0.9745	0.5054	0.0255	0.0824	0.1897	0.942	1.486
GSDS	1.0000	0.6894	0.3031	1.0000	0.6969	0.0000	0.3106	0.0000	0.942	3.816
GSR2-r	0.9465	0.8169	0.4064	0.9883	0.5936	0.0117	0.1831	0.0535	0.942	2.564
GSR2	0.9405	0.8227	0.4098	0.9878	0.5902	0.0122	0.1773	0.0595	0.942	2.512

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9531	0.8029	0.1217	0.9973	0.8783	0.0027	0.1971	0.0469	1.238	9.794
SCAD	0.8399	0.7932	0.1060	0.9925	0.8940	0.0075	0.2068	0.1601	1.238	10.042
LASSO	0.8368	0.9116	0.1957	0.9928	0.8043	0.0072	0.0884	0.1632	1.238	4.838
LARS	0.8368	0.9115	0.1957	0.9928	0.8043	0.0072	0.0885	0.1632	1.238	4.842
GSDS	0.9652	0.8063	0.1467	0.9984	0.8533	0.0016	0.1937	0.0348	1.238	9.704
GSR2-r	0.6697	0.9892	0.6398	0.9879	0.3602	0.0121	0.0108	0.3303	1.238	1.194
GSR2	0.6572	0.9895	0.6326	0.9875	0.3674	0.0125	0.0105	0.3428	1.238	1.162

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9945	0.8540	0.2452	0.9992	0.7548	0.0008	0.1460	0.0055	2.23	9.978
SCAD	0.9642	0.8178	0.1963	0.9955	0.8037	0.0045	0.1822	0.0358	2.23	11.708
LASSO	0.9523	0.9151	0.2926	0.9951	0.7074	0.0049	0.0849	0.0477	2.23	6.518
LARS	0.9512	0.9150	0.2919	0.9950	0.7081	0.0050	0.0850	0.0488	2.23	6.516
GSDS	0.9866	0.8649	0.3395	0.9988	0.6605	0.0012	0.1351	0.0134	2.23	9.486
GSR2-r	0.8712	0.9608	0.5180	0.9898	0.4820	0.0102	0.0392	0.1288	2.23	3.808
GSR2	0.8819	0.9636	0.5324	0.9904	0.4676	0.0096	0.0364	0.1181	2.23	3.684

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9900	0.8588	0.4498	0.9975	0.5502	0.0025	0.1412	0.0100	0.972	2.262
SCAD	0.9529	0.8248	0.3955	0.9895	0.6045	0.0105	0.1752	0.0471	0.972	2.494
LASSO	0.9466	0.9217	0.5419	0.9893	0.4581	0.0107	0.0783	0.0534	0.972	1.612
LARS	0.9466	0.9224	0.5453	0.9893	0.4547	0.0107	0.0776	0.0534	0.972	1.606
GSDS	1.0000	0.8018	0.4607	1.0000	0.5393	0.0000	0.1982	0.0000	0.972	2.868
GSR2-r	0.9552	0.8180	0.4044	0.9894	0.5956	0.0106	0.1820	0.0448	0.972	2.586
GSR2	0.9611	0.8262	0.4134	0.9906	0.5866	0.0094	0.1738	0.0389	0.972	2.510

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9961	0.8531	0.1918	0.9996	0.8082	0.0004	0.1469	0.0039	1.258	7.716
SCAD	0.9645	0.8162	0.1465	0.9969	0.8535	0.0031	0.1838	0.0355	1.258	9.214
LASSO	0.9427	0.9139	0.2254	0.9964	0.7746	0.0036	0.0861	0.0573	1.258	4.906
LARS	0.9405	0.9137	0.2237	0.9963	0.7763	0.0037	0.0863	0.0595	1.258	4.910
GSDS	0.9764	0.8783	0.2996	0.9987	0.7004	0.0013	0.1217	0.0236	1.258	6.618
GSR2-r	0.7840	0.9910	0.7050	0.9899	0.2950	0.0101	0.0090	0.2160	1.258	1.222
GSR2	0.7988	0.9926	0.7333	0.9904	0.2667	0.0096	0.0074	0.2012	1.258	1.174

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9931	0.8916	0.3548	0.9987	0.6452	0.0013	0.1084	0.0069	2.398	8.154
SCAD	0.9603	0.8531	0.2794	0.9937	0.7206	0.0063	0.1469	0.0397	2.398	9.938
LASSO	0.9575	0.9149	0.3042	0.9947	0.6958	0.0053	0.0851	0.0425	2.398	6.662
LARS	0.9531	0.9148	0.3030	0.9942	0.6970	0.0058	0.0852	0.0469	2.398	6.644
GSDS	0.9818	0.9108	0.6266	0.9984	0.3734	0.0016	0.0892	0.0182	2.398	7.206
GSR2-r	0.8777	0.9596	0.5230	0.9890	0.4770	0.0110	0.0404	0.1223	2.398	3.984
GSR2	0.8769	0.9602	0.5318	0.9890	0.4682	0.0110	0.0398	0.1231	2.398	3.954

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9899	0.8882	0.5396	0.9967	0.4604	0.0033	0.1118	0.0101	1.024	2.040
SCAD	0.9437	0.8614	0.4540	0.9834	0.5460	0.0166	0.1386	0.0563	1.024	2.168
LASSO	0.9480	0.9276	0.5740	0.9881	0.4260	0.0119	0.0724	0.0520	1.024	1.600
LARS	0.9463	0.9288	0.5785	0.9876	0.4215	0.0124	0.0712	0.0537	1.024	1.586
GSDS	1.0000	0.8706	0.6636	1.0000	0.3364	0.0000	0.1294	0.0000	1.024	2.304
GSR2-r	0.9361	0.8088	0.3988	0.9839	0.6012	0.0161	0.1912	0.0639	1.024	2.656
GSR2	0.9431	0.8109	0.4091	0.9864	0.5909	0.0136	0.1891	0.0569	1.024	2.660

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9930	0.8921	0.3021	0.9991	0.6979	0.0009	0.1079	0.0070	1.374	6.114
SCAD	0.9605	0.8511	0.2253	0.9961	0.7747	0.0039	0.1489	0.0395	1.374	7.770
LASSO	0.9508	0.9125	0.2318	0.9961	0.7682	0.0039	0.0875	0.0492	1.374	5.062
LARS	0.9438	0.9122	0.2297	0.9957	0.7703	0.0043	0.0878	0.0562	1.374	5.058
GSDS	0.9671	0.9197	0.5785	0.9982	0.4215	0.0018	0.0803	0.0329	1.374	4.902
GSR2-r	0.8040	0.9913	0.7200	0.9900	0.2800	0.0100	0.0087	0.1960	1.374	1.328
GSR2	0.7969	0.9916	0.7321	0.9896	0.2679	0.0104	0.0084	0.2031	1.374	1.294

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9707	0.7373	0.1353	0.9970	0.8647	0.0030	0.2627	0.0293	2.158	15.990
SCAD	0.8607	0.7160	0.1131	0.9875	0.8869	0.0125	0.2840	0.1393	2.158	16.736
LASSO	0.8835	0.8941	0.2300	0.9909	0.7700	0.0091	0.1059	0.1165	2.158	7.358
LARS	0.8835	0.8941	0.2299	0.9909	0.7701	0.0091	0.1059	0.1165	2.158	7.356
GSDS	0.9864	0.5987	0.1082	0.9983	0.8918	0.0017	0.4013	0.0136	2.158	23.470
GSR2-r	0.8522	0.9558	0.4746	0.9900	0.5254	0.0100	0.0442	0.1478	2.158	4.016
GSR2	0.8545	0.9580	0.4881	0.9898	0.5119	0.0102	0.0420	0.1455	2.158	3.890

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9445	0.7655	0.3096	0.9893	0.6904	0.0107	0.2345	0.0555	0.942	3.012
SCAD	0.8146	0.7292	0.2434	0.9673	0.7566	0.0327	0.2708	0.1854	0.942	3.184
LASSO	0.8489	0.9014	0.4579	0.9770	0.5421	0.0230	0.0986	0.1511	0.942	1.666
LARS	0.8489	0.9016	0.4591	0.9770	0.5409	0.0230	0.0984	0.1511	0.942	1.664
GSDS	1.0000	0.4941	0.1942	1.0000	0.8058	0.0000	0.5059	0.0000	0.942	5.596
GSR2-r	0.9400	0.8011	0.3678	0.9870	0.6322	0.0130	0.1989	0.0600	0.942	2.698
GSR2	0.9416	0.8094	0.3784	0.9872	0.6216	0.0128	0.1906	0.0584	0.942	2.622

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9822	0.7315	0.0991	0.9988	0.9009	0.0012	0.2685	0.0178	1.216	12.978
SCAD	0.8745	0.7132	0.0813	0.9922	0.9187	0.0078	0.2868	0.1255	1.216	13.552
LASSO	0.8708	0.8928	0.1728	0.9940	0.8272	0.0060	0.1072	0.1292	1.216	5.692
LARS	0.8708	0.8928	0.1727	0.9940	0.8273	0.0060	0.1072	0.1292	1.216	5.692
GSDS	0.9744	0.6203	0.0807	0.9981	0.9193	0.0019	0.3797	0.0256	1.216	17.874
GSR2-r	0.7604	0.9885	0.6491	0.9906	0.3509	0.0094	0.0115	0.2396	1.216	1.318
GSR2	0.7608	0.9894	0.6707	0.9903	0.3293	0.0097	0.0106	0.2392	1.216	1.268

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No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9409	0.8106	0.1824	0.9948	0.8176	0.0052	0.1894	0.0591	2.384	12.174
SCAD	0.8496	0.7939	0.1565	0.9876	0.8435	0.0124	0.2061	0.1504	2.384	12.738
LASSO	0.8401	0.9142	0.2786	0.9882	0.7214	0.0118	0.0858	0.1599	2.384	6.360
LARS	0.8372	0.9142	0.2780	0.9880	0.7220	0.0120	0.0858	0.1628	2.384	6.348
GSDS	0.9775	0.7911	0.2021	0.9981	0.7979	0.0019	0.2089	0.0225	2.384	13.392
GSR2-r	0.8124	0.9604	0.5232	0.9875	0.4768	0.0125	0.0396	0.1876	2.384	3.860
GSR2	0.8246	0.9594	0.5228	0.9882	0.4772	0.0118	0.0406	0.1754	2.384	3.948

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9219	0.8244	0.4031	0.9849	0.5969	0.0151	0.1756	0.0781	1.074	2.546
SCAD	0.8286	0.8124	0.3529	0.9676	0.6471	0.0324	0.1876	0.1714	1.074	2.512
LASSO	0.8253	0.9178	0.5361	0.9708	0.4639	0.0292	0.0822	0.1747	1.074	1.582
LARS	0.8224	0.9188	0.5380	0.9704	0.4620	0.0296	0.0812	0.1776	1.074	1.570
GSDS	1.0000	0.6995	0.3199	1.0000	0.6801	0.0000	0.3005	0.0000	1.074	3.812
GSR2-r	0.9218	0.8156	0.4192	0.9821	0.5808	0.0179	0.1844	0.0782	1.074	2.640
GSR2	0.9357	0.8108	0.4182	0.9838	0.5818	0.0162	0.1892	0.0643	1.074	2.700

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9431	0.8079	0.1341	0.9971	0.8659	0.0029	0.1921	0.0569	1.31	9.628
SCAD	0.8535	0.7902	0.1116	0.9924	0.8884	0.0076	0.2098	0.1465	1.31	10.226
LASSO	0.8237	0.9136	0.2076	0.9919	0.7924	0.0081	0.0864	0.1763	1.31	4.778
LARS	0.8206	0.9135	0.2066	0.9918	0.7934	0.0082	0.0865	0.1794	1.31	4.778
GSDS	0.9535	0.8100	0.1598	0.9979	0.8402	0.0021	0.1900	0.0465	1.31	9.580
GSR2-r	0.6934	0.9907	0.6866	0.9885	0.3134	0.0115	0.0093	0.3066	1.31	1.220
GSR2	0.7051	0.9905	0.6916	0.9889	0.3084	0.0111	0.0095	0.2949	1.31	1.248

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9898	0.8414	0.2140	0.9984	0.7860	0.0016	0.1586	0.0102	2	10.420
SCAD	0.9465	0.8117	0.1642	0.9935	0.8358	0.0065	0.1883	0.0535	2	11.746
LASSO	0.9352	0.9113	0.2508	0.9937	0.7492	0.0063	0.0887	0.0648	2	6.438
LARS	0.9338	0.9111	0.2500	0.9937	0.7500	0.0063	0.0889	0.0662	2	6.444
GSDS	0.9884	0.8522	0.3068	0.9991	0.6932	0.0009	0.1478	0.0116	2	9.986
GSR2-r	0.8915	0.9556	0.4719	0.9914	0.5281	0.0086	0.0444	0.1085	2	3.946
GSR2	0.8877	0.9555	0.4757	0.9913	0.5243	0.0087	0.0445	0.1123	2	3.952

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9854	0.8554	0.4238	0.9960	0.5762	0.0040	0.1446	0.0146	0.9	2.224
SCAD	0.9292	0.8174	0.3513	0.9837	0.6487	0.0163	0.1826	0.0708	0.9	2.450
LASSO	0.9358	0.9175	0.4978	0.9876	0.5022	0.0124	0.0825	0.0642	0.9	1.572
LARS	0.9329	0.9175	0.4961	0.9871	0.5039	0.0129	0.0825	0.0671	0.9	1.568
GSDS	1.0000	0.7841	0.4261	1.0000	0.5739	0.0000	0.2159	0.0000	0.9	2.990
GSR2-r	0.9507	0.8007	0.3712	0.9877	0.6288	0.0123	0.1993	0.0493	0.9	2.676
GSR2	0.9497	0.8003	0.3747	0.9885	0.6253	0.0115	0.1997	0.0503	0.9	2.682

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9892	0.8386	0.1604	0.9990	0.8396	0.0010	0.1614	0.0108	1.1	8.196
SCAD	0.9414	0.8102	0.1184	0.9956	0.8816	0.0044	0.1898	0.0586	1.1	9.296
LASSO	0.9149	0.9103	0.1859	0.9951	0.8141	0.0049	0.0897	0.0851	1.1	4.866
LARS	0.9149	0.9100	0.1853	0.9951	0.8147	0.0049	0.0900	0.0851	1.1	4.876
GSDS	0.9785	0.8669	0.2612	0.9990	0.7388	0.0010	0.1331	0.0215	1.1	6.996
GSR2-r	0.8180	0.9885	0.6272	0.9920	0.3728	0.0080	0.0115	0.1820	1.1	1.270
GSR2	0.8085	0.9884	0.6322	0.9919	0.3678	0.0081	0.0116	0.1915	1.1	1.270

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9979	0.8865	0.3330	0.9997	0.6670	0.0003	0.1135	0.0021	2.2	8.300
SCAD	0.9683	0.8540	0.2722	0.9960	0.7278	0.0040	0.1460	0.0317	2.2	9.838
LASSO	0.9667	0.9147	0.2900	0.9965	0.7100	0.0035	0.0853	0.0333	2.2	6.578
LARS	0.9663	0.9145	0.2891	0.9964	0.7109	0.0036	0.0855	0.0337	2.2	6.584
GSDS	0.9758	0.9030	0.5906	0.9985	0.4094	0.0015	0.0970	0.0242	2.2	7.436
GSR2-r	0.8919	0.9588	0.5162	0.9917	0.4838	0.0083	0.0412	0.1081	2.2	3.976
GSR2	0.8901	0.9596	0.5134	0.9916	0.4866	0.0084	0.0404	0.1099	2.2	3.926

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9961	0.8738	0.4948	0.9993	0.5052	0.0007	0.1262	0.0039	0.956	2.142
SCAD	0.9613	0.8527	0.4433	0.9910	0.5567	0.0090	0.1473	0.0387	0.956	2.260
LASSO	0.9577	0.9180	0.5408	0.9920	0.4592	0.0080	0.0820	0.0423	0.956	1.656
LARS	0.9577	0.9180	0.5401	0.9920	0.4599	0.0080	0.0820	0.0423	0.956	1.656
GSDS	1.0000	0.8595	0.6422	1.0000	0.3578	0.0000	0.1405	0.0000	0.956	2.350
GSR2-r	0.9632	0.8074	0.4028	0.9910	0.5972	0.0090	0.1926	0.0368	0.956	2.670
GSR2	0.9624	0.8110	0.4029	0.9917	0.5971	0.0083	0.1890	0.0376	0.956	2.640

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9981	0.8891	0.2882	0.9998	0.7118	0.0002	0.1109	0.0019	1.244	6.158
SCAD	0.9642	0.8541	0.2188	0.9971	0.7812	0.0029	0.1459	0.0358	1.244	7.578
LASSO	0.9608	0.9142	0.2244	0.9975	0.7756	0.0025	0.0858	0.0392	1.244	4.922
LARS	0.9599	0.9140	0.2230	0.9974	0.7770	0.0026	0.0860	0.0401	1.244	4.928
GSDS	0.9532	0.9127	0.5230	0.9982	0.4770	0.0018	0.0873	0.0468	1.244	5.086
GSR2-r	0.8122	0.9908	0.6873	0.9919	0.3127	0.0081	0.0092	0.1878	1.244	1.306
GSR2	0.8089	0.9910	0.6769	0.9917	0.3231	0.0083	0.0090	0.1911	1.244	1.286

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9722	0.7387	0.1463	0.9965	0.8537	0.0035	0.2613	0.0278	2.374	16.066
SCAD	0.8779	0.7207	0.1292	0.9873	0.8708	0.0127	0.2793	0.1221	2.374	16.642
LASSO	0.8818	0.8956	0.2490	0.9895	0.7510	0.0105	0.1044	0.1182	2.374	7.408
LARS	0.8813	0.8958	0.2491	0.9894	0.7509	0.0106	0.1042	0.1187	2.374	7.396
GSDS	0.9792	0.6028	0.1159	0.9981	0.8841	0.0019	0.3972	0.0208	2.374	23.370
GSR2-r	0.8378	0.9595	0.5183	0.9874	0.4817	0.0126	0.0405	0.1622	2.374	3.892
GSR2	0.8434	0.9612	0.5213	0.9877	0.4787	0.0123	0.0388	0.1566	2.374	3.816

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9471	0.7775	0.3450	0.9878	0.6550	0.0122	0.2225	0.0529	1.02	2.948
SCAD	0.8354	0.7271	0.2802	0.9634	0.7198	0.0366	0.2729	0.1646	1.02	3.244
LASSO	0.8546	0.9085	0.4984	0.9743	0.5016	0.0257	0.0915	0.1454	1.02	1.650
LARS	0.8546	0.9091	0.4976	0.9743	0.5024	0.0257	0.0909	0.1454	1.02	1.644
GSDS	0.9970	0.5018	0.2094	0.9996	0.7906	0.0004	0.4982	0.0030	1.02	5.566
GSR2-r	0.9375	0.8125	0.4111	0.9847	0.5889	0.0153	0.1875	0.0625	1.02	2.638
GSR2	0.9402	0.8177	0.4139	0.9851	0.5861	0.0149	0.1823	0.0598	1.02	2.588

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9840	0.7304	0.1071	0.9985	0.8929	0.0015	0.2696	0.0160	1.354	13.118
SCAD	0.8919	0.7192	0.0972	0.9923	0.9028	0.0077	0.2808	0.1081	1.354	13.398
LASSO	0.8735	0.8931	0.1862	0.9928	0.8138	0.0072	0.1069	0.1265	1.354	5.758
LARS	0.8727	0.8932	0.1864	0.9927	0.8136	0.0073	0.1068	0.1273	1.354	5.752
GSDS	0.9633	0.6236	0.0877	0.9979	0.9123	0.0021	0.3764	0.0367	1.354	17.804
GSR2-r	0.7326	0.9905	0.6970	0.9879	0.3030	0.0121	0.0095	0.2674	1.354	1.254
GSR2	0.7399	0.9912	0.6950	0.9881	0.3050	0.0119	0.0088	0.2601	1.354	1.228

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No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9475	0.8032	0.1670	0.9951	0.8330	0.0049	0.1968	0.0525	2.236	12.462
SCAD	0.8456	0.7914	0.1437	0.9875	0.8563	0.0125	0.2086	0.1544	2.236	12.750
LASSO	0.8366	0.9115	0.2540	0.9881	0.7460	0.0119	0.0885	0.1634	2.236	6.362
LARS	0.8343	0.9117	0.2538	0.9879	0.7462	0.0121	0.0883	0.1657	2.236	6.346
GSDS	0.9841	0.7848	0.1905	0.9986	0.8095	0.0014	0.2152	0.0159	2.236	13.638
GSR2-r	0.8173	0.9567	0.4762	0.9881	0.5238	0.0119	0.0433	0.1827	2.236	3.948
GSR2	0.8117	0.9599	0.4953	0.9874	0.5047	0.0126	0.0401	0.1883	2.236	3.736

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9315	0.8137	0.3565	0.9887	0.6435	0.0113	0.1863	0.0685	0.952	2.572
SCAD	0.8132	0.8045	0.3025	0.9708	0.6975	0.0292	0.1955	0.1868	0.952	2.510
LASSO	0.8454	0.9109	0.4887	0.9754	0.5113	0.0246	0.0891	0.1546	0.952	1.570
LARS	0.8438	0.9120	0.4906	0.9753	0.5094	0.0247	0.0880	0.1562	0.952	1.558
GSDS	1.0000	0.6799	0.2967	1.0000	0.7033	0.0000	0.3201	0.0000	0.952	3.916
GSR2-r	0.9405	0.8054	0.3750	0.9870	0.6250	0.0130	0.1946	0.0595	0.952	2.670
GSR2	0.9321	0.8188	0.3917	0.9860	0.6083	0.0140	0.1812	0.0679	0.952	2.534

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9448	0.8011	0.1240	0.9966	0.8760	0.0034	0.1989	0.0552	1.284	9.890
SCAD	0.8518	0.7887	0.1053	0.9915	0.8947	0.0085	0.2113	0.1482	1.284	10.240
LASSO	0.8048	0.9118	0.1903	0.9909	0.8097	0.0091	0.0882	0.1952	1.284	4.792
LARS	0.8014	0.9118	0.1896	0.9908	0.8104	0.0092	0.0882	0.1986	1.284	4.788
GSDS	0.9703	0.8068	0.1565	0.9984	0.8435	0.0016	0.1932	0.0297	1.284	9.722
GSR2-r	0.7080	0.9887	0.6362	0.9883	0.3638	0.0117	0.0113	0.2920	1.284	1.278
GSR2	0.6912	0.9898	0.6617	0.9877	0.3383	0.0123	0.0102	0.3088	1.284	1.202

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9912	0.8517	0.2362	0.9988	0.7638	0.0012	0.1483	0.0088	2.136	10.006
SCAD	0.9617	0.8182	0.1889	0.9949	0.8111	0.0051	0.1818	0.0383	2.136	11.590
LASSO	0.9389	0.9134	0.2720	0.9939	0.7280	0.0061	0.0866	0.0611	2.136	6.462
LARS	0.9374	0.9133	0.2713	0.9938	0.7287	0.0062	0.0867	0.0626	2.136	6.458
GSDS	0.9900	0.8572	0.3225	0.9991	0.6775	0.0009	0.1428	0.0100	2.136	9.832
GSR2-r	0.8802	0.9577	0.4884	0.9908	0.5116	0.0092	0.0423	0.1198	2.136	3.938
GSR2	0.8720	0.9596	0.4887	0.9902	0.5113	0.0098	0.0404	0.1280	2.136	3.798

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9883	0.8621	0.4586	0.9966	0.5414	0.0034	0.1379	0.0117	0.96	2.214
SCAD	0.9480	0.8252	0.3567	0.9862	0.6433	0.0138	0.1748	0.0520	0.96	2.458
LASSO	0.9268	0.9217	0.5211	0.9854	0.4789	0.0146	0.0783	0.0732	0.96	1.572
LARS	0.9251	0.9219	0.5218	0.9852	0.4782	0.0148	0.0781	0.0749	0.96	1.568
GSDS	1.0000	0.7831	0.4411	1.0000	0.5589	0.0000	0.2169	0.0000	0.96	3.046
GSR2-r	0.9471	0.8051	0.3814	0.9870	0.6186	0.0130	0.1949	0.0529	0.96	2.678
GSR2	0.9329	0.8111	0.3788	0.9842	0.6212	0.0158	0.1889	0.0671	0.96	2.590

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9901	0.8495	0.1772	0.9993	0.8228	0.0007	0.1505	0.0099	1.176	7.792
SCAD	0.9598	0.8166	0.1395	0.9968	0.8605	0.0032	0.1834	0.0402	1.176	9.132
LASSO	0.9302	0.9118	0.2037	0.9957	0.7963	0.0043	0.0882	0.0698	1.176	4.890
LARS	0.9285	0.9117	0.2026	0.9956	0.7974	0.0044	0.0883	0.0715	1.176	4.890
GSDS	0.9799	0.8731	0.2736	0.9990	0.7264	0.0010	0.1269	0.0201	1.176	6.786
GSR2-r	0.8094	0.9899	0.6683	0.9915	0.3317	0.0085	0.0101	0.1906	1.176	1.260
GSR2	0.8073	0.9908	0.6809	0.9913	0.3191	0.0087	0.0092	0.1927	1.176	1.208

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9936	0.8853	0.3284	0.9991	0.6716	0.0009	0.1147	0.0064	2.21	8.344
SCAD	0.9610	0.8503	0.2638	0.9949	0.7362	0.0051	0.1497	0.0390	2.21	9.974
LASSO	0.9594	0.9138	0.2855	0.9954	0.7145	0.0046	0.0862	0.0406	2.21	6.582
LARS	0.9567	0.9135	0.2834	0.9952	0.7166	0.0048	0.0865	0.0433	2.21	6.586
GSDS	0.9868	0.8940	0.5859	0.9989	0.4141	0.0011	0.1060	0.0132	2.21	7.966
GSR2-r	0.8944	0.9584	0.5073	0.9912	0.4927	0.0088	0.0416	0.1056	2.21	3.984
GSR2	0.9064	0.9589	0.5144	0.9920	0.4856	0.0080	0.0411	0.0936	2.21	3.998

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9934	0.8855	0.5153	0.9978	0.4847	0.0022	0.1145	0.0066	1.006	2.072
SCAD	0.9524	0.8592	0.4548	0.9890	0.5452	0.0110	0.1408	0.0476	1.006	2.222
LASSO	0.9514	0.9203	0.5392	0.9898	0.4608	0.0102	0.0797	0.0486	1.006	1.664
LARS	0.9496	0.9201	0.5386	0.9893	0.4614	0.0107	0.0799	0.0504	1.006	1.662
GSDS	1.0000	0.8477	0.6267	1.0000	0.3733	0.0000	0.1523	0.0000	1.006	2.516
GSR2-r	0.9485	0.8087	0.4036	0.9886	0.5964	0.0114	0.1913	0.0515	1.006	2.686
GSR2	0.9524	0.8108	0.4070	0.9891	0.5930	0.0109	0.1892	0.0476	1.006	2.670

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9910	0.8853	0.2691	0.9993	0.7309	0.0007	0.1147	0.0090	1.204	6.272
SCAD	0.9538	0.8484	0.2027	0.9963	0.7973	0.0037	0.1516	0.0462	1.204	7.752
LASSO	0.9494	0.9127	0.2112	0.9966	0.7888	0.0034	0.0873	0.0506	1.204	4.918
LARS	0.9442	0.9124	0.2084	0.9965	0.7916	0.0035	0.0876	0.0558	1.204	4.924
GSDS	0.9752	0.9042	0.5316	0.9987	0.4684	0.0013	0.0958	0.0248	1.204	5.450
GSR2-r	0.8264	0.9900	0.6708	0.9918	0.3292	0.0082	0.0100	0.1736	1.204	1.298
GSR2	0.8454	0.9900	0.6733	0.9925	0.3267	0.0075	0.0100	0.1546	1.204	1.328

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9633	0.7307	0.1333	0.9961	0.8667	0.0039	0.2693	0.0367	2.248	16.370
SCAD	0.8515	0.7098	0.1127	0.9861	0.8873	0.0139	0.2902	0.1485	2.248	17.070
LASSO	0.8701	0.8936	0.2303	0.9893	0.7697	0.0107	0.1064	0.1299	2.248	7.396
LARS	0.8701	0.8936	0.2306	0.9893	0.7694	0.0107	0.1064	0.1299	2.248	7.394
GSDS	0.9772	0.5879	0.1057	0.9978	0.8943	0.0022	0.4121	0.0228	2.248	24.076
GSR2-r	0.8157	0.9563	0.4766	0.9871	0.5234	0.0129	0.0437	0.1843	2.248	3.934
GSR2	0.8187	0.9547	0.4712	0.9872	0.5288	0.0128	0.0453	0.1813	2.248	4.024

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9440	0.7702	0.3030	0.9888	0.6970	0.0112	0.2298	0.0560	0.954	2.970
SCAD	0.8041	0.7264	0.2371	0.9646	0.7629	0.0354	0.2736	0.1959	0.954	3.192
LASSO	0.8555	0.8956	0.4368	0.9769	0.5632	0.0231	0.1044	0.1445	0.954	1.730
LARS	0.8555	0.8956	0.4356	0.9769	0.5644	0.0231	0.1044	0.1445	0.954	1.730
GSDS	0.9935	0.4929	0.1917	0.9992	0.8083	0.0008	0.5071	0.0065	0.954	5.610
GSR2-r	0.9313	0.8056	0.3795	0.9864	0.6205	0.0136	0.1944	0.0687	0.954	2.668
GSR2	0.9286	0.7995	0.3743	0.9853	0.6257	0.0147	0.2005	0.0714	0.954	2.718

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9691	0.7224	0.0986	0.9978	0.9014	0.0022	0.2776	0.0309	1.294	13.400
SCAD	0.8600	0.7063	0.0846	0.9913	0.9154	0.0087	0.2937	0.1400	1.294	13.878
LASSO	0.8508	0.8933	0.1747	0.9920	0.8253	0.0080	0.1067	0.1492	1.294	5.666
LARS	0.8508	0.8934	0.1749	0.9920	0.8251	0.0080	0.1066	0.1492	1.294	5.664
GSDS	0.9621	0.6076	0.0799	0.9977	0.9201	0.0023	0.3924	0.0379	1.294	18.466
GSR2-r	0.6985	0.9883	0.6310	0.9874	0.3690	0.0126	0.0117	0.3015	1.294	1.266
GSR2	0.7071	0.9876	0.6214	0.9876	0.3786	0.0124	0.0124	0.2929	1.294	1.306

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No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9305	0.8041	0.1658	0.9943	0.8342	0.0057	0.1959	0.0695	2.268	12.400
SCAD	0.8394	0.7949	0.1409	0.9868	0.8591	0.0132	0.2051	0.1606	2.268	12.550
LASSO	0.8342	0.9127	0.2600	0.9880	0.7400	0.0120	0.0873	0.1658	2.268	6.326
LARS	0.8342	0.9128	0.2602	0.9880	0.7398	0.0120	0.0872	0.1658	2.268	6.320
GSDS	0.9763	0.7868	0.1926	0.9982	0.8074	0.0018	0.2132	0.0237	2.268	13.542
GSR2-r	0.8243	0.9589	0.5060	0.9874	0.4940	0.0126	0.0411	0.1757	2.268	3.822
GSR2	0.8379	0.9600	0.5027	0.9884	0.4973	0.0116	0.0400	0.1621	2.268	3.820

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9047	0.8257	0.3666	0.9842	0.6334	0.0158	0.1743	0.0953	0.998	2.458
SCAD	0.7742	0.8161	0.3100	0.9641	0.6900	0.0359	0.1839	0.2258	0.998	2.380
LASSO	0.8118	0.9221	0.5111	0.9711	0.4889	0.0289	0.0779	0.1882	0.998	1.472
LARS	0.8118	0.9221	0.5111	0.9711	0.4889	0.0289	0.0779	0.1882	0.998	1.472
GSDS	1.0000	0.6926	0.3079	1.0000	0.6921	0.0000	0.3074	0.0000	0.998	3.834
GSR2-r	0.9286	0.8124	0.4045	0.9831	0.5955	0.0169	0.1876	0.0714	0.998	2.618
GSR2	0.9460	0.8153	0.4005	0.9867	0.5995	0.0133	0.1847	0.0540	0.998	2.612

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9411	0.7998	0.1231	0.9967	0.8769	0.0033	0.2002	0.0589	1.27	9.942
SCAD	0.8598	0.7905	0.1042	0.9921	0.8958	0.0079	0.2095	0.1402	1.27	10.170
LASSO	0.8194	0.9109	0.1956	0.9917	0.8044	0.0083	0.0891	0.1806	1.27	4.854
LARS	0.8194	0.9111	0.1959	0.9917	0.8041	0.0083	0.0889	0.1806	1.27	4.848
GSDS	0.9544	0.8065	0.1550	0.9979	0.8450	0.0021	0.1935	0.0456	1.27	9.708
GSR2-r	0.7055	0.9899	0.6654	0.9881	0.3346	0.0119	0.0101	0.2945	1.27	1.204
GSR2	0.7186	0.9903	0.6791	0.9887	0.3209	0.0113	0.0097	0.2814	1.27	1.208

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9919	0.8478	0.2415	0.9988	0.7585	0.0012	0.1522	0.0081	2.266	10.330
SCAD	0.9513	0.8141	0.1918	0.9940	0.8082	0.0060	0.1859	0.0487	2.266	11.886
LASSO	0.9291	0.9150	0.2844	0.9929	0.7156	0.0071	0.0850	0.0709	2.266	6.450
LARS	0.9274	0.9152	0.2846	0.9927	0.7154	0.0073	0.0848	0.0726	2.266	6.436
GSDS	0.9858	0.8617	0.3325	0.9986	0.6675	0.0014	0.1383	0.0142	2.266	9.684
GSR2-r	0.8539	0.9608	0.5214	0.9885	0.4786	0.0115	0.0392	0.1461	2.266	3.780
GSR2	0.8592	0.9596	0.5206	0.9890	0.4794	0.0110	0.0404	0.1408	2.266	3.872

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9841	0.8625	0.4702	0.9958	0.5298	0.0042	0.1375	0.0159	1.016	2.256
SCAD	0.9404	0.8159	0.3753	0.9854	0.6247	0.0146	0.1841	0.0596	1.016	2.576
LASSO	0.9161	0.9256	0.5542	0.9837	0.4458	0.0163	0.0744	0.0839	1.016	1.574
LARS	0.9146	0.9267	0.5579	0.9835	0.4421	0.0165	0.0733	0.0854	1.016	1.562
GSDS	1.0000	0.7918	0.4582	1.0000	0.5418	0.0000	0.2082	0.0000	1.016	3.006
GSR2-r	0.9412	0.8200	0.4233	0.9854	0.5767	0.0146	0.1800	0.0588	1.016	2.576
GSR2	0.9491	0.8152	0.4238	0.9872	0.5762	0.0128	0.1848	0.0509	1.016	2.634

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9949	0.8448	0.1836	0.9995	0.8164	0.0005	0.1552	0.0051	1.25	8.074
SCAD	0.9388	0.8135	0.1411	0.9961	0.8589	0.0039	0.1865	0.0612	1.25	9.310
LASSO	0.9083	0.9130	0.2117	0.9948	0.7883	0.0052	0.0870	0.0917	1.25	4.876
LARS	0.9056	0.9130	0.2109	0.9947	0.7891	0.0053	0.0870	0.0944	1.25	4.874
GSDS	0.9728	0.8766	0.2814	0.9984	0.7186	0.0016	0.1234	0.0272	1.25	6.678
GSR2-r	0.7485	0.9904	0.6675	0.9890	0.3325	0.0110	0.0096	0.2515	1.25	1.204
GSR2	0.7533	0.9899	0.6547	0.9894	0.3453	0.0106	0.0101	0.2467	1.25	1.238

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9937	0.8861	0.3318	0.9989	0.6682	0.0011	0.1139	0.0063	2.186	8.266
SCAD	0.9565	0.8437	0.2521	0.9941	0.7479	0.0059	0.1563	0.0435	2.186	10.270
LASSO	0.9659	0.9143	0.2855	0.9960	0.7145	0.0040	0.0857	0.0341	2.186	6.558
LARS	0.9639	0.9139	0.2833	0.9958	0.7167	0.0042	0.0861	0.0361	2.186	6.570
GSDS	0.9838	0.8991	0.5739	0.9987	0.4261	0.0013	0.1009	0.0162	2.186	7.652
GSR2-r	0.9020	0.9567	0.4929	0.9918	0.5071	0.0082	0.0433	0.0980	2.186	4.084
GSR2	0.9068	0.9561	0.4962	0.9923	0.5038	0.0077	0.0439	0.0932	2.186	4.138

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9904	0.8774	0.5032	0.9967	0.4968	0.0033	0.1226	0.0096	0.928	2.060
SCAD	0.9340	0.8419	0.4103	0.9856	0.5897	0.0144	0.1581	0.0660	0.928	2.292
LASSO	0.9597	0.9191	0.5324	0.9915	0.4676	0.0085	0.0809	0.0403	0.928	1.614
LARS	0.9562	0.9196	0.5323	0.9908	0.4677	0.0092	0.0804	0.0438	0.928	1.604
GSDS	1.0000	0.8538	0.6169	1.0000	0.3831	0.0000	0.1462	0.0000	0.928	2.376
GSR2-r	0.9602	0.7981	0.3719	0.9907	0.6281	0.0093	0.2019	0.0398	0.928	2.734
GSR2	0.9615	0.7956	0.3731	0.9909	0.6269	0.0091	0.2044	0.0385	0.928	2.754

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9942	0.8878	0.2845	0.9993	0.7155	0.0007	0.1122	0.0058	1.258	6.206
SCAD	0.9584	0.8440	0.2066	0.9960	0.7934	0.0040	0.1560	0.0416	1.258	7.978
LASSO	0.9612	0.9135	0.2244	0.9970	0.7756	0.0030	0.0865	0.0388	1.258	4.944
LARS	0.9596	0.9129	0.2211	0.9969	0.7789	0.0031	0.0871	0.0404	1.258	4.966
GSDS	0.9693	0.9090	0.5377	0.9985	0.4623	0.0015	0.0910	0.0307	1.258	5.276
GSR2-r	0.8428	0.9903	0.6934	0.9921	0.3066	0.0079	0.0097	0.1572	1.258	1.350
GSR2	0.8515	0.9900	0.6973	0.9926	0.3027	0.0074	0.0100	0.1485	1.258	1.384

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9701	0.7343	0.1459	0.9966	0.8541	0.0034	0.2657	0.0299	2.43	16.334
SCAD	0.8524	0.7169	0.1222	0.9857	0.8778	0.0143	0.2831	0.1476	2.43	16.810
LASSO	0.8798	0.8968	0.2561	0.9897	0.7439	0.0103	0.1032	0.1202	2.43	7.412
LARS	0.8778	0.8967	0.2554	0.9895	0.7446	0.0105	0.1033	0.1222	2.43	7.404
GSDS	0.9803	0.5965	0.1181	0.9981	0.8819	0.0019	0.4035	0.0197	2.43	23.756
GSR2-r	0.8265	0.9613	0.5097	0.9868	0.4903	0.0132	0.0387	0.1735	2.43	3.820
GSR2	0.8269	0.9614	0.5164	0.9868	0.4836	0.0132	0.0386	0.1731	2.43	3.812

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9418	0.7734	0.3339	0.9887	0.6661	0.0113	0.2266	0.0582	1.026	2.996
SCAD	0.8092	0.7375	0.2690	0.9632	0.7310	0.0368	0.2625	0.1908	1.026	3.142
LASSO	0.8651	0.9064	0.4995	0.9751	0.5005	0.0249	0.0936	0.1349	1.026	1.678
LARS	0.8615	0.9064	0.4989	0.9744	0.5011	0.0256	0.0936	0.1385	1.026	1.672
GSDS	0.9970	0.4938	0.2112	0.9998	0.7888	0.0002	0.5062	0.0030	1.026	5.652
GSR2-r	0.9294	0.8179	0.3957	0.9845	0.6043	0.0155	0.1821	0.0706	1.026	2.592
GSR2	0.9268	0.8188	0.4016	0.9838	0.5984	0.0162	0.1812	0.0732	1.026	2.576

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$; Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9847	0.7263	0.1089	0.9986	0.8911	0.0014	0.2737	0.0153	1.404	13.338
SCAD	0.8582	0.7126	0.0889	0.9909	0.9111	0.0091	0.2874	0.1418	1.404	13.668
LASSO	0.8681	0.8949	0.1962	0.9929	0.8038	0.0071	0.1051	0.1319	1.404	5.734
LARS	0.8670	0.8949	0.1957	0.9929	0.8043	0.0071	0.1051	0.1330	1.404	5.732
GSDS	0.9642	0.6177	0.0894	0.9979	0.9106	0.0021	0.3823	0.0358	1.404	18.104
GSR2-r	0.7238	0.9916	0.7088	0.9873	0.2912	0.0127	0.0084	0.2762	1.404	1.228
GSR2	0.7225	0.9915	0.7205	0.9875	0.2795	0.0125	0.0085	0.2775	1.404	1.236

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No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9395	0.8038	0.1647	0.9945	0.8353	0.0055	0.1962	0.0605	2.216	12.386
SCAD	0.8433	0.7902	0.1362	0.9876	0.8638	0.0124	0.2098	0.1567	2.216	12.790
LASSO	0.8398	0.9116	0.2524	0.9881	0.7476	0.0119	0.0884	0.1602	2.216	6.336
LARS	0.8391	0.9118	0.2527	0.9881	0.7473	0.0119	0.0882	0.1609	2.216	6.328
GSDS	0.9830	0.7846	0.1892	0.9985	0.8108	0.0015	0.2154	0.0170	2.216	13.630
GSR2-r	0.8120	0.9574	0.4925	0.9877	0.5075	0.0123	0.0426	0.1880	2.216	3.870
GSR2	0.8063	0.9585	0.4926	0.9876	0.5074	0.0124	0.0415	0.1937	2.216	3.804

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9138	0.8181	0.3558	0.9853	0.6442	0.0147	0.1819	0.0862	0.932	2.486
SCAD	0.7856	0.8113	0.2969	0.9669	0.7031	0.0331	0.1887	0.2144	0.932	2.390
LASSO	0.8380	0.9149	0.4959	0.9754	0.5041	0.0246	0.0851	0.1620	0.932	1.508
LARS	0.8380	0.9151	0.4966	0.9753	0.5034	0.0247	0.0849	0.1620	0.932	1.506
GSDS	1.0000	0.6885	0.3040	1.0000	0.6960	0.0000	0.3115	0.0000	0.932	3.824
GSR2-r	0.9359	0.8078	0.3922	0.9863	0.6078	0.0137	0.1922	0.0641	0.932	2.622
GSR2	0.9431	0.8125	0.3948	0.9869	0.6052	0.0131	0.1875	0.0569	0.932	2.578

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(6, 1)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9516	0.8010	0.1254	0.9967	0.8746	0.0033	0.1990	0.0484	1.284	9.900
SCAD	0.8776	0.7858	0.1014	0.9925	0.8986	0.0075	0.2142	0.1224	1.284	10.400
LASSO	0.8140	0.9111	0.1905	0.9910	0.8095	0.0090	0.0889	0.1860	1.284	4.828
LARS	0.8129	0.9112	0.1902	0.9909	0.8098	0.0091	0.0888	0.1871	1.284	4.822
GSDS	0.9683	0.8049	0.1558	0.9983	0.8442	0.0017	0.1951	0.0317	1.284	9.806
GSR2-r	0.6926	0.9890	0.6468	0.9879	0.3532	0.0121	0.0110	0.3074	1.284	1.248
GSR2	0.6736	0.9893	0.6333	0.9877	0.3667	0.0123	0.0107	0.3264	1.284	1.226

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9914	0.8506	0.2374	0.9987	0.7626	0.0013	0.1494	0.0086	2.162	10.088
SCAD	0.9669	0.8174	0.1901	0.9959	0.8099	0.0041	0.1826	0.0331	2.162	11.696
LASSO	0.9367	0.9133	0.2734	0.9937	0.7266	0.0063	0.0867	0.0633	2.162	6.484
LARS	0.9342	0.9135	0.2733	0.9936	0.7267	0.0064	0.0865	0.0658	2.162	6.466
GSDS	0.9894	0.8618	0.3340	0.9992	0.6660	0.0008	0.1382	0.0106	2.162	9.622
GSR2-r	0.8804	0.9562	0.4909	0.9902	0.5091	0.0098	0.0438	0.1196	2.162	4.012
GSR2	0.8772	0.9561	0.4898	0.9900	0.5102	0.0100	0.0439	0.1228	2.162	4.010

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9861	0.8601	0.4451	0.9962	0.5549	0.0038	0.1399	0.0139	0.95	2.222
SCAD	0.9556	0.8240	0.3638	0.9896	0.6362	0.0104	0.1760	0.0444	0.95	2.488
LASSO	0.9235	0.9197	0.5153	0.9858	0.4847	0.0142	0.0803	0.0765	0.95	1.578
LARS	0.9219	0.9206	0.5172	0.9855	0.4828	0.0145	0.0794	0.0781	0.95	1.568
GSDS	1.0000	0.7981	0.4468	1.0000	0.5532	0.0000	0.2019	0.0000	0.95	2.896
GSR2-r	0.9534	0.8026	0.3832	0.9881	0.6168	0.0119	0.1974	0.0466	0.95	2.706
GSR2	0.9493	0.8026	0.3826	0.9876	0.6174	0.0124	0.1974	0.0507	0.95	2.698

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(12, 4)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9924	0.8486	0.1843	0.9992	0.8157	0.0008	0.1514	0.0076	1.212	7.866
SCAD	0.9661	0.8158	0.1433	0.9973	0.8567	0.0027	0.1842	0.0339	1.212	9.208
LASSO	0.9217	0.9120	0.2090	0.9954	0.7910	0.0046	0.0880	0.0783	1.212	4.906
LARS	0.9182	0.9121	0.2086	0.9953	0.7914	0.0047	0.0879	0.0818	1.212	4.898
GSDS	0.9815	0.8755	0.2917	0.9991	0.7083	0.0009	0.1245	0.0185	1.212	6.726
GSR2-r	0.8040	0.9887	0.6723	0.9905	0.3277	0.0095	0.0113	0.1960	1.212	1.306
GSR2	0.8010	0.9885	0.6643	0.9905	0.3357	0.0095	0.0115	0.1990	1.212	1.312

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9965	0.8876	0.3320	0.9993	0.6680	0.0007	0.1124	0.0035	2.184	8.198
SCAD	0.9641	0.8531	0.2652	0.9957	0.7348	0.0043	0.1469	0.0359	2.184	9.850
LASSO	0.9608	0.9143	0.2868	0.9959	0.7132	0.0041	0.0857	0.0392	2.184	6.554
LARS	0.9585	0.9138	0.2842	0.9957	0.7158	0.0043	0.0862	0.0415	2.184	6.570
GSDS	0.9934	0.9061	0.6017	0.9994	0.3983	0.0006	0.0939	0.0066	2.184	7.298
GSR2-r	0.9049	0.9595	0.5085	0.9925	0.4915	0.0075	0.0405	0.0951	2.184	3.970
GSR2	0.9082	0.9604	0.5164	0.9928	0.4836	0.0072	0.0396	0.0918	2.184	3.932

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9951	0.8794	0.5151	0.9986	0.4849	0.0014	0.1206	0.0049	0.972	2.096
SCAD	0.9583	0.8463	0.4376	0.9877	0.5624	0.0123	0.1537	0.0417	0.972	2.306
LASSO	0.9521	0.9221	0.5511	0.9904	0.4489	0.0096	0.0779	0.0479	0.972	1.620
LARS	0.9495	0.9223	0.5515	0.9900	0.4485	0.0100	0.0777	0.0505	0.972	1.614
GSDS	1.0000	0.8605	0.6517	1.0000	0.3483	0.0000	0.1395	0.0000	0.972	2.356
GSR2-r	0.9591	0.8091	0.3937	0.9904	0.6063	0.0096	0.1909	0.0409	0.972	2.664
GSR2	0.9626	0.8116	0.4004	0.9911	0.5996	0.0089	0.1884	0.0374	0.972	2.642

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 1)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9962	0.8894	0.2806	0.9995	0.7194	0.0005	0.1106	0.0038	1.212	6.102
SCAD	0.9575	0.8542	0.2120	0.9973	0.7880	0.0027	0.1458	0.0425	1.212	7.544
LASSO	0.9535	0.9130	0.2173	0.9972	0.7827	0.0028	0.0870	0.0465	1.212	4.934
LARS	0.9509	0.9123	0.2140	0.9970	0.7860	0.0030	0.0877	0.0491	1.212	4.956
GSDS	0.9873	0.9162	0.5382	0.9992	0.4618	0.0008	0.0838	0.0127	1.212	4.942
GSR2-r	0.8442	0.9911	0.6923	0.9930	0.3077	0.0070	0.0089	0.1558	1.212	1.306
GSR2	0.8484	0.9917	0.7045	0.9932	0.2955	0.0068	0.0083	0.1516	1.212	1.290

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$;
Simulation size 500

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9649	0.7358	0.1419	0.9958	0.8581	0.0042	0.2642	0.0351	2.356	16.166
SCAD	0.8714	0.7136	0.1180	0.9871	0.8820	0.0129	0.2864	0.1286	2.356	16.982
LASSO	0.8669	0.8945	0.2414	0.9887	0.7586	0.0113	0.1055	0.1331	2.356	7.416
LARS	0.8661	0.8945	0.2411	0.9887	0.7589	0.0113	0.1055	0.1339	2.356	7.408
GSDS	0.9819	0.5983	0.1151	0.9985	0.8849	0.0015	0.4017	0.0181	2.356	23.622
GSR2-r	0.8354	0.9597	0.5010	0.9878	0.4990	0.0122	0.0403	0.1646	2.356	3.886
GSR2	0.8276	0.9589	0.4941	0.9873	0.5059	0.0127	0.0411	0.1724	2.356	3.902

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$;
Simulation size 500

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9424	0.7682	0.3251	0.9868	0.6749	0.0132	0.2318	0.0576	1.02	3.038
SCAD	0.8397	0.7280	0.2623	0.9692	0.7377	0.0308	0.2720	0.1603	1.02	3.256
LASSO	0.8461	0.8981	0.4697	0.9743	0.5303	0.0257	0.1019	0.1539	1.02	1.746
LARS	0.8451	0.8981	0.4675	0.9741	0.5325	0.0259	0.1019	0.1549	1.02	1.744
GSDS	0.9908	0.5005	0.2045	0.9992	0.7955	0.0008	0.4995	0.0092	1.02	5.576
GSR2-r	0.9467	0.8130	0.3937	0.9860	0.6063	0.0140	0.1870	0.0533	1.02	2.648
GSR2	0.9424	0.8102	0.3890	0.9858	0.6110	0.0142	0.1898	0.0576	1.02	2.666

No. factors = 10; $q_{me} = 0.1$; Active Eff. Dist $N(24, 4)$; Inactive Eff. Dist $N(0, 16)$;
Simulation size 500

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9776	0.7293	0.1030	0.9979	0.8970	0.0021	0.2707	0.0224	1.336	13.128
SCAD	0.8701	0.7105	0.0840	0.9914	0.9160	0.0086	0.2895	0.1299	1.336	13.726
LASSO	0.8540	0.8940	0.1806	0.9919	0.8194	0.0081	0.1060	0.1460	1.336	5.670
LARS	0.8535	0.8940	0.1804	0.9919	0.8196	0.0081	0.1060	0.1465	1.336	5.664
GSDS	0.9734	0.6184	0.0873	0.9985	0.9127	0.0015	0.3816	0.0266	1.336	18.046
GSR2-r	0.7331	0.9905	0.6878	0.9881	0.3122	0.0119	0.0095	0.2669	1.336	1.238
GSR2	0.7206	0.9902	0.6777	0.9877	0.3223	0.0123	0.0098	0.2794	1.336	1.236