

**May 1, 2009, All interactions were set to be inactive. Only  $q = 0.05$  and  $0.15$ .**

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(6, 1)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9783	0.7779	0.0356	0.9998	0.9644	0.0002	0.2221	0.0217	0.425	12.5417
SCAD	0.9130	0.7905	0.0348	0.9990	0.9652	0.0010	0.2095	0.0870	0.425	11.8167
LASSO	0.9239	0.8949	0.0624	0.9991	0.9376	0.0009	0.1051	0.0761	0.425	6.1250
LARS	0.9239	0.8949	0.0624	0.9991	0.9376	0.0009	0.1051	0.0761	0.425	6.1250
GSDS	1.0000	0.7304	0.0382	1.0000	0.9618	0.0000	0.2696	0.0000	0.425	15.1667
GSR2-r	0.9783	0.9439	0.3368	0.9997	0.6632	0.0003	0.0561	0.0217	0.425	3.4917
GSR2	0.9891	0.9487	0.3273	0.9998	0.6727	0.0002	0.0513	0.0109	0.425	3.2333
FOR	0.9457	0.4943	0.0143	0.9991	0.9857	0.0009	0.5057	0.0543	0.425	28.0000
SW	0.8478	0.8150	0.0358	0.9986	0.9642	0.0014	0.1850	0.1522	0.425	10.4583
SWCV	0.9130	0.7300	0.0275	0.9988	0.9725	0.0012	0.2700	0.0870	0.425	15.1167

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(6, 1)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9783	0.7963	0.1937	0.9991	0.8063	0.0009	0.2037	0.0217	0.425	2.3667
SCAD	0.9130	0.8100	0.1882	0.9949	0.8118	0.0051	0.1900	0.0870	0.425	2.2083
LASSO	0.9239	0.8907	0.2775	0.9950	0.7225	0.0050	0.1093	0.0761	0.425	1.4333
LARS	0.9239	0.8907	0.2775	0.9950	0.7225	0.0050	0.1093	0.0761	0.425	1.4333
GSDS	1.0000	0.6031	0.1428	1.0000	0.8572	0.0000	0.3969	0.0000	0.425	4.2667
GSR2-r	0.9783	0.7991	0.3458	0.9980	0.6542	0.0020	0.2009	0.0217	0.425	2.4000
GSR2	0.9891	0.8088	0.3424	0.9991	0.6576	0.0009	0.1912	0.0109	0.425	2.3083
FOR	0.9457	0.5015	0.0880	0.9965	0.9120	0.0035	0.4985	0.0543	0.425	5.1917
SW	0.8478	0.8316	0.1991	0.9924	0.8009	0.0076	0.1684	0.1522	0.425	1.9750
SWCV	0.9130	0.7401	0.1468	0.9941	0.8532	0.0059	0.2599	0.0870	0.425	2.8750

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(6, 1)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.7739	0	1	1	0	0.2261	NaN	0	10.1750
SCAD	NaN	0.7865	0	1	1	0	0.2135	NaN	0	9.6083
LASSO	NaN	0.8957	0	1	1	0	0.1043	NaN	0	4.6917
LARS	NaN	0.8957	0	1	1	0	0.1043	NaN	0	4.6917
GSDS	NaN	0.7578	0	1	1	0	0.2422	NaN	0	10.9000
GSR2-r	NaN	0.9757	0	1	1	0	0.0243	NaN	0	1.0917
GSR2	NaN	0.9794	0	1	1	0	0.0206	NaN	0	0.9250
FOR	NaN	0.4931	0	1	1	0	0.5069	NaN	0	22.8083
SW	NaN	0.8115	0	1	1	0	0.1885	NaN	0	8.4833
SWCV	NaN	0.7280	0	1	1	0	0.2720	NaN	0	12.2417

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(12, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.8072	0.0608	1.0000	0.9392	0e+00	0.1928	0.0000	0.525	11.0500
SCAD	1.0000	0.8110	0.0627	1.0000	0.9373	0e+00	0.1890	0.0000	0.525	10.8417
LASSO	1.0000	0.8981	0.0843	1.0000	0.9157	0e+00	0.1019	0.0000	0.525	6.0833
LARS	1.0000	0.8981	0.0843	1.0000	0.9157	0e+00	0.1019	0.0000	0.525	6.0833
GSDS	1.0000	0.7991	0.1019	1.0000	0.8981	0e+00	0.2009	0.0000	0.525	11.5333
GSR2-r	0.9867	0.9532	0.4237	0.9997	0.5763	3e-04	0.0468	0.0133	0.525	3.0833
GSR2	0.9867	0.9545	0.4386	0.9997	0.5614	3e-04	0.0455	0.0133	0.525	3.0083
FOR	1.0000	0.4957	0.0187	1.0000	0.9812	0e+00	0.5043	0.0000	0.525	28.0000
SW	1.0000	0.8231	0.0547	1.0000	0.9453	0e+00	0.1769	0.0000	0.525	10.1667
SWCV	1.0000	0.7561	0.0470	1.0000	0.9530	0e+00	0.2439	0.0000	0.525	13.8333

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(12, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.8278	0.2575	1.0000	0.7425	0.0000	0.1722	0.0000	0.525	2.1833
SCAD	1.0000	0.8300	0.2561	1.0000	0.7439	0.0000	0.1700	0.0000	0.525	2.1583
LASSO	1.0000	0.9113	0.3513	1.0000	0.6487	0.0000	0.0887	0.0000	0.525	1.3750
LARS	1.0000	0.9113	0.3513	1.0000	0.6487	0.0000	0.0887	0.0000	0.525	1.3750
GSDS	1.0000	0.7031	0.2353	1.0000	0.7647	0.0000	0.2969	0.0000	0.525	3.4167
GSR2-r	0.9867	0.8283	0.4237	0.9979	0.5763	0.0021	0.1717	0.0133	0.525	2.2250
GSR2	0.9867	0.8325	0.4386	0.9979	0.5614	0.0021	0.1675	0.0133	0.525	2.1833
FOR	1.0000	0.4990	0.0928	1.0000	0.9072	0.0000	0.5010	0.0000	0.525	5.2667
SW	1.0000	0.8284	0.2421	1.0000	0.7579	0.0000	0.1716	0.0000	0.525	2.1583
SWCV	1.0000	0.7772	0.2088	1.0000	0.7912	0.0000	0.2228	0.0000	0.525	2.6583

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(12, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.8030	0	1	1	0	0.1970	NaN	0	8.8667
SCAD	NaN	0.8070	0	1	1	0	0.1930	NaN	0	8.6833
LASSO	NaN	0.8954	0	1	1	0	0.1046	NaN	0	4.7083
LARS	NaN	0.8954	0	1	1	0	0.1046	NaN	0	4.7083
GSDS	NaN	0.8196	0	1	1	0	0.1804	NaN	0	8.1167
GSR2-r	NaN	0.9809	0	1	1	0	0.0191	NaN	0	0.8583
GSR2	NaN	0.9817	0	1	1	0	0.0183	NaN	0	0.8250
FOR	NaN	0.4948	0	1	1	0	0.5052	NaN	0	22.7333
SW	NaN	0.8220	0	1	1	0	0.1780	NaN	0	8.0083
SWCV	NaN	0.7517	0	1	1	0	0.2483	NaN	0	11.1750

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1	0.8279	0.0847	1	0.9153	0	0.1721	0	0.475	9.9000
SCAD	1	0.8262	0.0882	1	0.9118	0	0.1738	0	0.475	9.9917
LASSO	1	0.8963	0.0763	1	0.9237	0	0.1037	0	0.475	6.1333
LARS	1	0.8963	0.0763	1	0.9237	0	0.1037	0	0.475	6.1333
GSDS	1	0.8111	0.2989	1	0.7011	0	0.1889	0	0.475	10.8583
GSR2-r	1	0.9520	0.4298	1	0.5702	0	0.0480	0	0.475	3.1167
GSR2	1	0.9561	0.4336	1	0.5664	0	0.0439	0	0.475	2.8917
FOR	1	0.4953	0.0170	1	0.9830	0	0.5047	0	0.475	28.0000
SW	1	0.8236	0.0706	1	0.9294	0	0.1764	0	0.475	10.1167
SWCV	1	0.7554	0.0534	1	0.9466	0	0.2446	0	0.475	13.8500

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1	0.8120	0.2664	1	0.7336	0	0.1880	0	0.475	2.3000
SCAD	1	0.8200	0.2673	1	0.7327	0	0.1800	0	0.475	2.2250
LASSO	1	0.8912	0.3019	1	0.6981	0	0.1088	0	0.475	1.5250
LARS	1	0.8912	0.3019	1	0.6981	0	0.1088	0	0.475	1.5250
GSDS	1	0.7187	0.3611	1	0.6389	0	0.2813	0	0.475	3.2750
GSR2-r	1	0.8233	0.4298	1	0.5702	0	0.1767	0	0.475	2.2417
GSR2	1	0.8350	0.4336	1	0.5664	0	0.1650	0	0.475	2.1250
FOR	1	0.4786	0.0841	1	0.9159	0	0.5214	0	0.475	5.4417
SW	1	0.8226	0.2442	1	0.7558	0	0.1774	0	0.475	2.1833
SWCV	1	0.7535	0.1930	1	0.8070	0	0.2465	0	0.475	2.8500

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.8311	0	1	1	0	0.1689	NaN	0	7.6000
SCAD	NaN	0.8274	0	1	1	0	0.1726	NaN	0	7.7667
LASSO	NaN	0.8976	0	1	1	0	0.1024	NaN	0	4.6083
LARS	NaN	0.8976	0	1	1	0	0.1024	NaN	0	4.6083
GSDS	NaN	0.8315	0	1	1	0	0.1685	NaN	0	7.5833
GSR2-r	NaN	0.9806	0	1	1	0	0.0194	NaN	0	0.8750
GSR2	NaN	0.9830	0	1	1	0	0.0170	NaN	0	0.7667
FOR	NaN	0.4987	0	1	1	0	0.5013	NaN	0	22.5583
SW	NaN	0.8237	0	1	1	0	0.1763	NaN	0	7.9333
SWCV	NaN	0.7556	0	1	1	0	0.2444	NaN	0	11.0000

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 16)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.6969	0.0231	1.0000	0.9769	0e+00	0.3031	0.0000	0.3667	16.9333
SCAD	0.9535	0.7002	0.0236	0.9995	0.9764	5e-04	0.2998	0.0465	0.3667	16.7333
LASSO	1.0000	0.8751	0.0509	1.0000	0.9491	0e+00	0.1249	0.0000	0.3667	7.1917
LARS	1.0000	0.8753	0.0509	1.0000	0.9491	0e+00	0.1247	0.0000	0.3667	7.1833
GSDS	1.0000	0.5153	0.0203	1.0000	0.9797	0e+00	0.4847	0.0000	0.3667	26.9000
GSR2-r	1.0000	0.9433	0.3288	1.0000	0.6712	0e+00	0.0567	0.0000	0.3667	3.4833
GSR2	1.0000	0.9442	0.3101	1.0000	0.6899	0e+00	0.0558	0.0000	0.3667	3.4333
FOR	0.9535	0.4939	0.0125	0.9994	0.9875	6e-04	0.5061	0.0465	0.3667	28.0000
SW	0.9767	0.7613	0.0350	0.9998	0.9650	2e-04	0.2387	0.0233	0.3667	13.4000
SWCV	0.9535	0.6453	0.0201	0.9995	0.9799	5e-04	0.3547	0.0465	0.3667	19.7333

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 16)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.7344	0.1412	1.0000	0.8588	0.0000	0.2656	0.0000	0.3667	2.9333
SCAD	0.9535	0.7234	0.1203	0.9969	0.8797	0.0031	0.2766	0.0465	0.3667	3.0083
LASSO	1.0000	0.8831	0.2686	1.0000	0.7314	0.0000	0.1169	0.0000	0.3667	1.5000
LARS	1.0000	0.8831	0.2686	1.0000	0.7314	0.0000	0.1169	0.0000	0.3667	1.5000
GSDS	1.0000	0.3855	0.0838	1.0000	0.9162	0.0000	0.6145	0.0000	0.3667	6.3417
GSR2-r	1.0000	0.7931	0.3360	1.0000	0.6640	0.0000	0.2069	0.0000	0.3667	2.4167
GSR2	1.0000	0.7956	0.3198	1.0000	0.6802	0.0000	0.2044	0.0000	0.3667	2.3917
FOR	0.9535	0.4822	0.0612	0.9967	0.9388	0.0033	0.5178	0.0465	0.3667	5.3250
SW	0.9767	0.7746	0.1581	0.9988	0.8419	0.0012	0.2254	0.0233	0.3667	2.5250
SWCV	0.9535	0.6718	0.1111	0.9962	0.8889	0.0038	0.3282	0.0465	0.3667	3.5083

No. factors = 10;  $q_{me} = 0.05$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 16)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.6889	0	1	1	0	0.3111	NaN	0	14.0000
SCAD	NaN	0.6950	0	1	1	0	0.3050	NaN	0	13.7250
LASSO	NaN	0.8735	0	1	1	0	0.1265	NaN	0	5.6917
LARS	NaN	0.8737	0	1	1	0	0.1263	NaN	0	5.6833
GSDS	NaN	0.5431	0	1	1	0	0.4569	NaN	0	20.5583
GSR2-r	NaN	0.9763	0	1	1	0	0.0237	NaN	0	1.0667
GSR2	NaN	0.9769	0	1	1	0	0.0231	NaN	0	1.0417
FOR	NaN	0.4961	0	1	1	0	0.5039	NaN	0	22.6750
SW	NaN	0.7583	0	1	1	0	0.2417	NaN	0	10.8750
SWCV	NaN	0.6394	0	1	1	0	0.3606	NaN	0	16.2250

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(6, 1)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9719	0.7847	0.1174	0.9986	0.8826	0.0014	0.2153	0.0281	1.5667	13.0250
SCAD	0.8650	0.8040	0.1321	0.9933	0.8679	0.0067	0.1960	0.1350	1.5667	11.7833
LASSO	0.9139	0.9086	0.2177	0.9961	0.7823	0.0039	0.0914	0.0861	1.5667	6.2750
LARS	0.9139	0.9084	0.2175	0.9961	0.7825	0.0039	0.0916	0.0861	1.5667	6.2833
GSDS	1.0000	0.8084	0.1665	1.0000	0.8335	0.0000	0.1916	0.0000	1.5667	11.8583
GSR2-r	0.9183	0.9789	0.7225	0.9959	0.2775	0.0041	0.0211	0.0817	1.5667	2.5000
GSR2	0.8965	0.9826	0.7731	0.9951	0.2269	0.0049	0.0174	0.1035	1.5667	2.2583
FOR	0.9132	0.5018	0.0491	0.9929	0.9509	0.0071	0.4982	0.0868	1.5667	28.0000
SW	0.8774	0.8169	0.1275	0.9941	0.8725	0.0059	0.1831	0.1226	1.5667	11.1083
SWCV	0.8876	0.7414	0.1010	0.9939	0.8990	0.0061	0.2586	0.1124	1.5667	15.1750

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(6, 1)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9719	0.8193	0.5222	0.9919	0.4778	0.0081	0.1807	0.0281	1.5667	3.0417
SCAD	0.8650	0.8127	0.4650	0.9609	0.5350	0.0391	0.1873	0.1350	1.5667	2.8917
LASSO	0.9139	0.9365	0.7069	0.9756	0.2931	0.0244	0.0635	0.0861	1.5667	1.9500
LARS	0.9139	0.9365	0.7069	0.9756	0.2931	0.0244	0.0635	0.0861	1.5667	1.9500
GSDS	1.0000	0.7119	0.4264	1.0000	0.5736	0.0000	0.2881	0.0000	1.5667	4.1000
GSR2-r	0.9183	0.9169	0.7354	0.9718	0.2646	0.0282	0.0831	0.0817	1.5667	2.1417
GSR2	0.8965	0.9329	0.7808	0.9681	0.2192	0.0319	0.0671	0.1035	1.5667	1.9583
FOR	0.9132	0.5230	0.2568	0.9612	0.7432	0.0388	0.4770	0.0868	1.5667	5.4167
SW	0.8774	0.8374	0.5257	0.9669	0.4743	0.0331	0.1626	0.1226	1.5667	2.7083
SWCV	0.8876	0.7666	0.4406	0.9660	0.5594	0.0340	0.2334	0.1124	1.5667	3.3250

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(6, 1)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.7781	0	1	1	0	0.2219	NaN	0	9.9833
SCAD	NaN	0.8024	0	1	1	0	0.1976	NaN	0	8.8917
LASSO	NaN	0.9039	0	1	1	0	0.0961	NaN	0	4.3250
LARS	NaN	0.9037	0	1	1	0	0.0963	NaN	0	4.3333
GSDS	NaN	0.8276	0	1	1	0	0.1724	NaN	0	7.7583
GSR2-r	NaN	0.9920	0	1	1	0	0.0080	NaN	0	0.3583
GSR2	NaN	0.9933	0	1	1	0	0.0067	NaN	0	0.3000
FOR	NaN	0.4981	0	1	1	0	0.5019	NaN	0	22.5833
SW	NaN	0.8133	0	1	1	0	0.1867	NaN	0	8.4000
SWCV	NaN	0.7367	0	1	1	0	0.2633	NaN	0	11.8500

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(12, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.8454	0.1591	1.0000	0.8409	0.0000	0.1546	0.0000	1.4417	9.7417
SCAD	0.9966	0.8488	0.1933	0.9998	0.8067	0.0002	0.1512	0.0034	1.4417	9.5750
LASSO	1.0000	0.9097	0.2251	1.0000	0.7749	0.0000	0.0903	0.0000	1.4417	6.2917
LARS	1.0000	0.9099	0.2257	1.0000	0.7743	0.0000	0.0901	0.0000	1.4417	6.2833
GSDS	1.0000	0.8838	0.2723	1.0000	0.7277	0.0000	0.1162	0.0000	1.4417	7.7417
GSR2-r	0.9813	0.9848	0.8235	0.9989	0.1765	0.0011	0.0152	0.0187	1.4417	2.2167
GSR2	0.9770	0.9824	0.8167	0.9987	0.1833	0.0013	0.0176	0.0230	1.4417	2.3417
FOR	1.0000	0.5043	0.0515	1.0000	0.9485	0.0000	0.4957	0.0000	1.4417	28.0000
SW	1.0000	0.8473	0.1869	1.0000	0.8131	0.0000	0.1527	0.0000	1.4417	9.6417
SWCV	0.9966	0.7836	0.1336	0.9998	0.8664	0.0002	0.2164	0.0034	1.4417	13.0750

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(12, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.8610	0.5634	1.0000	0.4366	0.0000	0.1390	0.0000	1.4417	2.6333
SCAD	0.9966	0.8233	0.4920	0.9988	0.5080	0.0012	0.1767	0.0034	1.4417	2.9500
LASSO	1.0000	0.9294	0.6680	1.0000	0.3320	0.0000	0.0706	0.0000	1.4417	2.0750
LARS	1.0000	0.9294	0.6680	1.0000	0.3320	0.0000	0.0706	0.0000	1.4417	2.0750
GSDS	1.0000	0.8309	0.5472	1.0000	0.4528	0.0000	0.1691	0.0000	1.4417	2.9833
GSR2-r	0.9813	0.9442	0.8235	0.9921	0.1765	0.0079	0.0558	0.0187	1.4417	1.9417
GSR2	0.9770	0.9367	0.8167	0.9912	0.1833	0.0088	0.0633	0.0230	1.4417	2.0083
FOR	1.0000	0.4718	0.2371	1.0000	0.7629	0.0000	0.5282	0.0000	1.4417	5.9667
SW	1.0000	0.8369	0.5179	1.0000	0.4821	0.0000	0.1631	0.0000	1.4417	2.8250
SWCV	0.9966	0.7695	0.4255	0.9988	0.5745	0.0012	0.2305	0.0034	1.4417	3.4167

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(12, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.8420	0	1	1	0	0.1580	NaN	0	7.1083
SCAD	NaN	0.8528	0	1	1	0	0.1472	NaN	0	6.6250
LASSO	NaN	0.9063	0	1	1	0	0.0937	NaN	0	4.2167
LARS	NaN	0.9065	0	1	1	0	0.0935	NaN	0	4.2083
GSDS	NaN	0.8943	0	1	1	0	0.1057	NaN	0	4.7583
GSR2-r	NaN	0.9939	0	1	1	0	0.0061	NaN	0	0.2750
GSR2	NaN	0.9926	0	1	1	0	0.0074	NaN	0	0.3333
FOR	NaN	0.5104	0	1	1	0	0.4896	NaN	0	22.0333
SW	NaN	0.8485	0	1	1	0	0.1515	NaN	0	6.8167
SWCV	NaN	0.7854	0	1	1	0	0.2146	NaN	0	9.6583

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.8869	0.2297	1.0000	0.7703	0e+00	0.1131	0.0000	1.475	7.5750
SCAD	1.0000	0.8919	0.3344	1.0000	0.6656	0e+00	0.1081	0.0000	1.475	7.3417
LASSO	1.0000	0.9105	0.2292	1.0000	0.7708	0e+00	0.0895	0.0000	1.475	6.2833
LARS	1.0000	0.9105	0.2292	1.0000	0.7708	0e+00	0.0895	0.0000	1.475	6.2833
GSDS	1.0000	0.9183	0.6050	1.0000	0.3950	0e+00	0.0817	0.0000	1.475	5.9500
GSR2-r	0.9946	0.9824	0.7881	0.9997	0.2119	3e-04	0.0176	0.0054	1.475	2.4250
GSR2	0.9910	0.9808	0.7750	0.9995	0.2250	5e-04	0.0192	0.0090	1.475	2.5083
FOR	1.0000	0.5047	0.0527	1.0000	0.9473	0e+00	0.4953	0.0000	1.475	28.0000
SW	1.0000	0.8686	0.2177	1.0000	0.7823	0e+00	0.1314	0.0000	1.475	8.5667
SWCV	1.0000	0.8336	0.1936	1.0000	0.8064	0e+00	0.1664	0.0000	1.475	10.4583

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	1.0000	0.8838	0.6116	1.0000	0.3884	0.0000	0.1162	0.0000	1.475	2.5250
SCAD	1.0000	0.8820	0.6137	1.0000	0.3863	0.0000	0.1180	0.0000	1.475	2.5500
LASSO	1.0000	0.9290	0.6886	1.0000	0.3114	0.0000	0.0710	0.0000	1.475	2.1250
LARS	1.0000	0.9290	0.6886	1.0000	0.3114	0.0000	0.0710	0.0000	1.475	2.1250
GSDS	1.0000	0.8850	0.7410	1.0000	0.2590	0.0000	0.1150	0.0000	1.475	2.6083
GSR2-r	0.9946	0.9350	0.7881	0.9976	0.2119	0.0024	0.0650	0.0054	1.475	2.1083
GSR2	0.9910	0.9283	0.7750	0.9966	0.2250	0.0034	0.0717	0.0090	1.475	2.1667
FOR	1.0000	0.4350	0.2303	1.0000	0.7697	0.0000	0.5650	0.0000	1.475	6.2917
SW	1.0000	0.8597	0.5665	1.0000	0.4335	0.0000	0.1403	0.0000	1.475	2.7250
SWCV	1.0000	0.8322	0.5302	1.0000	0.4698	0.0000	0.1678	0.0000	1.475	2.9667

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 1)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.8878	0	1	1	0	0.1122	NaN	0	5.0500
SCAD	NaN	0.8935	0	1	1	0	0.1065	NaN	0	4.7917
LASSO	NaN	0.9076	0	1	1	0	0.0924	NaN	0	4.1583
LARS	NaN	0.9076	0	1	1	0	0.0924	NaN	0	4.1583
GSDS	NaN	0.9257	0	1	1	0	0.0743	NaN	0	3.3417
GSR2-r	NaN	0.9930	0	1	1	0	0.0070	NaN	0	0.3167
GSR2	NaN	0.9924	0	1	1	0	0.0076	NaN	0	0.3417
FOR	NaN	0.5176	0	1	1	0	0.4824	NaN	0	21.7083
SW	NaN	0.8702	0	1	1	0	0.1298	NaN	0	5.8417
SWCV	NaN	0.8335	0	1	1	0	0.1665	NaN	0	7.4917

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 16)$ ; Simulation size 120

Averages: for all effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9674	0.7195	0.0881	0.9982	0.9119	0.0018	0.2805	0.0326	1.4833	16.4417
SCAD	0.8981	0.7373	0.1025	0.9941	0.8975	0.0059	0.2627	0.1019	1.4833	15.3583
LASSO	0.9506	0.8898	0.1858	0.9974	0.8142	0.0026	0.1102	0.0494	1.4833	7.2750
LARS	0.9506	0.8898	0.1858	0.9974	0.8142	0.0026	0.1102	0.0494	1.4833	7.2750
GSDS	1.0000	0.6232	0.0837	1.0000	0.9163	0.0000	0.3768	0.0000	1.4833	21.7500
GSR2-r	0.9097	0.9736	0.6990	0.9959	0.3010	0.0041	0.0264	0.0903	1.4833	2.7167
GSR2	0.9097	0.9731	0.6799	0.9959	0.3201	0.0041	0.0269	0.0903	1.4833	2.7417
FOR	0.9637	0.5033	0.0503	0.9972	0.9497	0.0028	0.4967	0.0363	1.4833	28.0000
SW	0.9191	0.7897	0.1224	0.9953	0.8776	0.0047	0.2103	0.0809	1.4833	12.5667
SWCV	0.9215	0.6890	0.0930	0.9952	0.9070	0.0048	0.3110	0.0785	1.4833	18.0083

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 16)$ ; Simulation size 120

Averages: for main effects

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	0.9674	0.7685	0.4383	0.9883	0.5617	0.0117	0.2315	0.0326	1.4833	3.4000
SCAD	0.8981	0.7585	0.4116	0.9659	0.5884	0.0341	0.2415	0.1019	1.4833	3.3500
LASSO	0.9506	0.9049	0.5864	0.9849	0.4136	0.0151	0.0951	0.0494	1.4833	2.2167
LARS	0.9506	0.9049	0.5864	0.9849	0.4136	0.0151	0.0951	0.0494	1.4833	2.2167
GSDS	1.0000	0.5196	0.2911	1.0000	0.7089	0.0000	0.4804	0.0000	1.4833	5.6750
GSR2-r	0.9097	0.9033	0.7048	0.9734	0.2952	0.0266	0.0967	0.0903	1.4833	2.2167
GSR2	0.9097	0.8996	0.6907	0.9734	0.3093	0.0266	0.1004	0.0903	1.4833	2.2500
FOR	0.9637	0.5047	0.2462	0.9831	0.7538	0.0169	0.4953	0.0363	1.4833	5.6500
SW	0.9191	0.8252	0.4865	0.9744	0.5135	0.0256	0.1748	0.0809	1.4833	2.8083
SWCV	0.9215	0.7122	0.3911	0.9717	0.6089	0.0283	0.2878	0.0785	1.4833	3.8250

No. factors = 10;  $q_{me} = 0.15$ ; Active Eff. Dist  $N(24, 4)$ ; Inactive Eff. Dist  $N(0, 16)$ ; Simulation size 120

Averages: for interactions

	Sens	Spec	sPPV	sNPV	FDR	FNPV	Type I	Type II	MSTr	MSEst
DS	NaN	0.7102	0	1	1	0	0.2898	NaN	0	13.0417
SCAD	NaN	0.7331	0	1	1	0	0.2669	NaN	0	12.0083
LASSO	NaN	0.8876	0	1	1	0	0.1124	NaN	0	5.0583
LARS	NaN	0.8876	0	1	1	0	0.1124	NaN	0	5.0583
GSDS	NaN	0.6428	0	1	1	0	0.3572	NaN	0	16.0750
GSR2-r	NaN	0.9889	0	1	1	0	0.0111	NaN	0	0.5000
GSR2	NaN	0.9891	0	1	1	0	0.0109	NaN	0	0.4917
FOR	NaN	0.5033	0	1	1	0	0.4967	NaN	0	22.3500
SW	NaN	0.7831	0	1	1	0	0.2169	NaN	0	9.7583
SWCV	NaN	0.6848	0	1	1	0	0.3152	NaN	0	14.1833