Overview
DECO analysis report

RDA information

Contrast design:	Binary
Number of samples:	69
Total iterations:	1000
Positive DE iterations:	368
DE features:	6709
Minimum repeats:	0
LIMMA q.value threshold:	0.05
RDA resampling size:	3

NSCA information

	Control samples	Case samples
Variability explained by NSCA	80.425	85.533
NSCA C−statistic p.value	0	0
Huber's gamma	0.622	0.716

Feature ranking information

Ranking	ID	SYMBOL	UpDw	Profile
1	SERF1A	SERF1A	UP	Majority
2	OR14A16	OR14A16	DOWN	Minority
3	NCR3	NCR3	DOWN	Majority
4	MUCL3	MUCL3	DOWN	Minority
5	OR10A2	OR10A2	DOWN	Minority
6	TCHHL1	TCHHL1	DOWN	Majority
7	CCL5	CCL5	DOWN	Minority
8	HBA1	HBA1	UP	Minority
9	NGB	NGB	MIXED	Minority
10	LINC00273	LINC00273	UP	Minority

Subclass information

	Samples	FeaturesUP	FeaturesDOWN	average.hStat.perc95	Binary	isRelevant
FERTILE Subclass 1	17	1369	88	39.829691	0	TRUE
FERTILE Subclass 2	9	56	48	35.851857	0	TRUE
FERTILE Subclass 3	17	2646	128	36.708833	0	TRUE
FERTILE Subclass 4	8	120	44	41.015318	0	TRUE
FERTILE Subclass 5	5	337	174	34.383123	0	TRUE
FERTILE Subclass 6	3	1167	532	70.935578	0	TRUE
SIMPLE_INFERTILITY Subclass 1	6	145	169	4.194545	1	TRUE
SIMPLE_INFERTILITY Subclass 2	4	1065	5330	10.619193	1	TRUE

Non−relevant subclasses are grey−colored

	Samples	Subclass
1	C56	FERTILE Subclass 1
2	C39	FERTILE Subclass 1
3	C54	FERTILE Subclass 1
4	C31	FERTILE Subclass 1
5	C68	FERTILE Subclass 1
6	C49	FERTILE Subclass 1
7	C67	FERTILE Subclass 1
8	A3	FERTILE Subclass 1
9	A14	FERTILE Subclass 1
10	A31	FERTILE Subclass 1
11	A32	FERTILE Subclass 1
12	A33	FERTILE Subclass 1
13	A38	FERTILE Subclass 1
14	A43	FERTILE Subclass 1
15	A44	FERTILE Subclass 1
16	A49	FERTILE Subclass 1
17	A61	FERTILE Subclass 1
18	C6	FERTILE Subclass 2
19	C100	FERTILE Subclass 2
20	C84	FERTILE Subclass 2
21	C13	FERTILE Subclass 2
22	C52	FERTILE Subclass 2
23	A4	FERTILE Subclass 2
24	A9	FERTILE Subclass 2
25	A12	FERTILE Subclass 2
26	A15	FERTILE Subclass 2
27	C41	FERTILE Subclass 3
28	C2	FERTILE Subclass 3
29	C44	FERTILE Subclass 3
30	C105	FERTILE Subclass 3
31	C19	FERTILE Subclass 3
32	C32	FERTILE Subclass 3
33	C72	FERTILE Subclass 3
34	C42	FERTILE Subclass 3
35	C20	FERTILE Subclass 3
36	C79	FERTILE Subclass 3
37	C90	FERTILE Subclass 3
38	C5	FERTILE Subclass 3
39	A20	FERTILE Subclass 3
40	A26	FERTILE Subclass 3
41	A28	FERTILE Subclass 3
42	A39	FERTILE Subclass 3
43	A42	FERTILE Subclass 3
44	C65	FERTILE Subclass 4
45	C97	FERTILE Subclass 4
46	A11	FERTILE Subclass 4
47	A34	FERTILE Subclass 4
48	A40	FERTILE Subclass 4
49	A41	FERTILE Subclass 4
50	A47	FERTILE Subclass 4
51	A56	FERTILE Subclass 4
52	A17	FERTILE Subclass 5
53	A18	FERTILE Subclass 5
54	A21	FERTILE Subclass 5
55	A23	FERTILE Subclass 5
56	A25	FERTILE Subclass 5
57	A50	FERTILE Subclass 6
58	A59	FERTILE Subclass 6
59	A60	FERTILE Subclass 6
60	C66	SIMPLE_INFERTILITY Subclass 1
61	C45	SIMPLE_INFERTILITY Subclass 1
62	C8	SIMPLE_INFERTILITY Subclass 1
63	C4	SIMPLE_INFERTILITY Subclass 1
64	A7	SIMPLE_INFERTILITY Subclass 1
65	A48	SIMPLE_INFERTILITY Subclass 1
66	A1	SIMPLE_INFERTILITY Subclass 2
67	A16	SIMPLE_INFERTILITY Subclass 2
68	A45	SIMPLE_INFERTILITY Subclass 2
69	A46	SIMPLE_INFERTILITY Subclass 2

RDA: Differential events counted per sample

Samples with higher amounts of 'Repeats' resemble

more different profiles from other class of samples.

CONTROL

CASE

Repeats per sample

9000
8100
7200
6300
5400
4500
3600
2700
1800
900
0

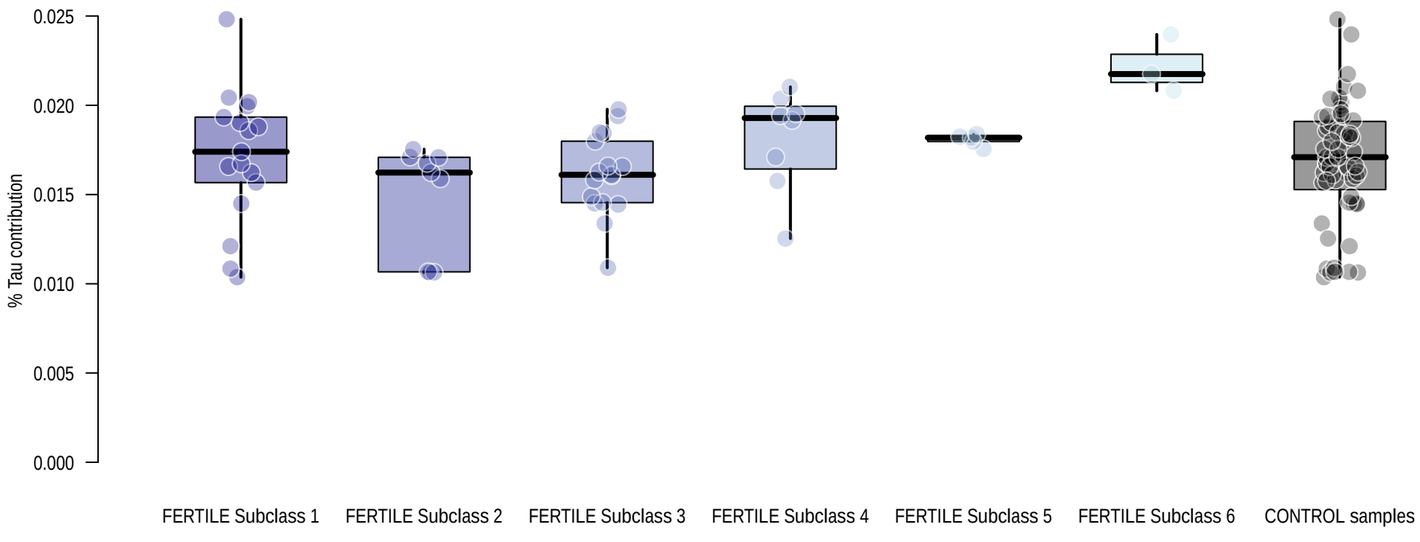
27 37 43 28 34 19 38 44 41 59 53 31 52 30 26 51 36 40 10 29 32 45 12 42 33 56 39 35 54 3 9 13 2 6 24 23 7 25 48 46 4 17 49 14 47 55 1 20 16 8 5 21 15 11 18 50 22 57 58 67 62 65 66 61 64 60 68 69 63

Reference number from samples

NSCA: Goodman and Kruskal's Tau contribution

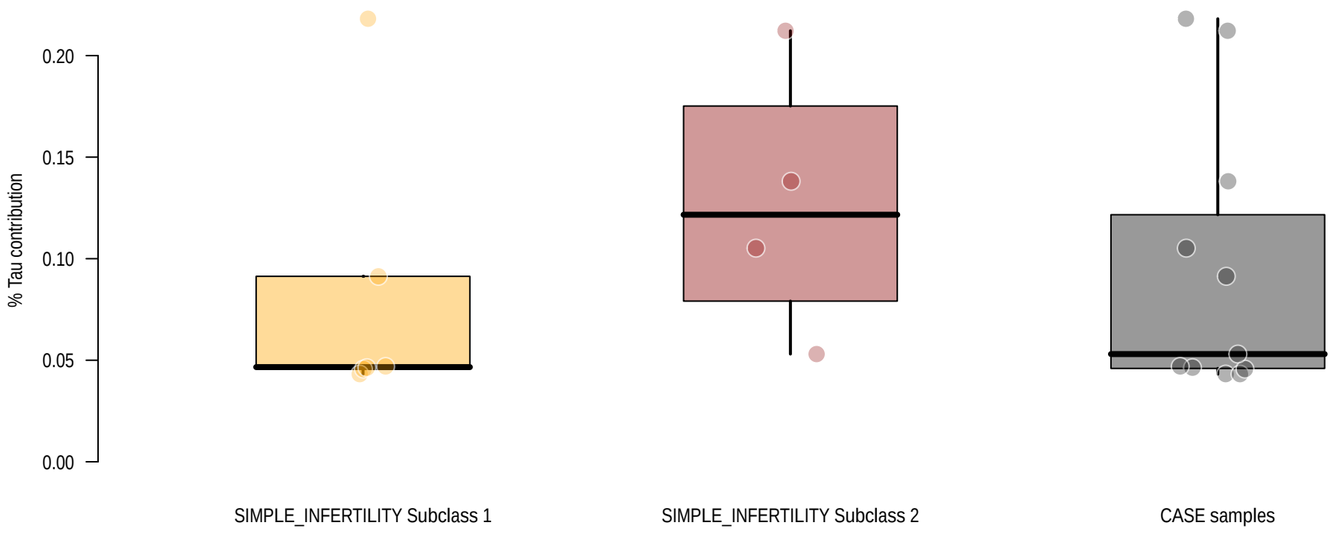
A higher Tau value per sample indicates more sample−specific signal.

CONTROL samples



	CONTROL NSCA
Tau	0.00172
C.Statistic	462523.50317
p.value	0

CASE samples

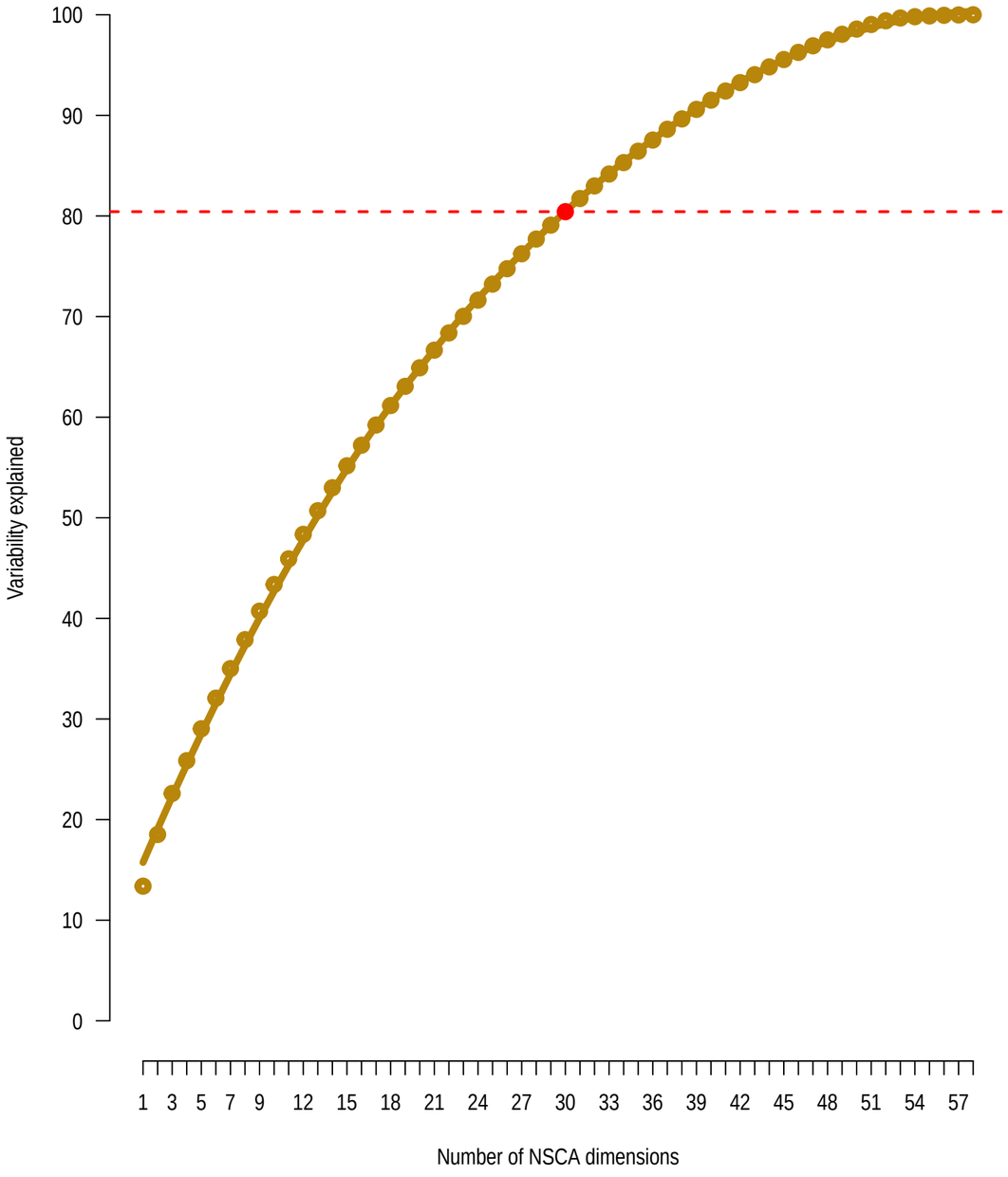


	CASE NSCA
Tau	0.00024
C.Statistic	65197.34344
p.value	0

NSCA: Smooth−curve of variability explained

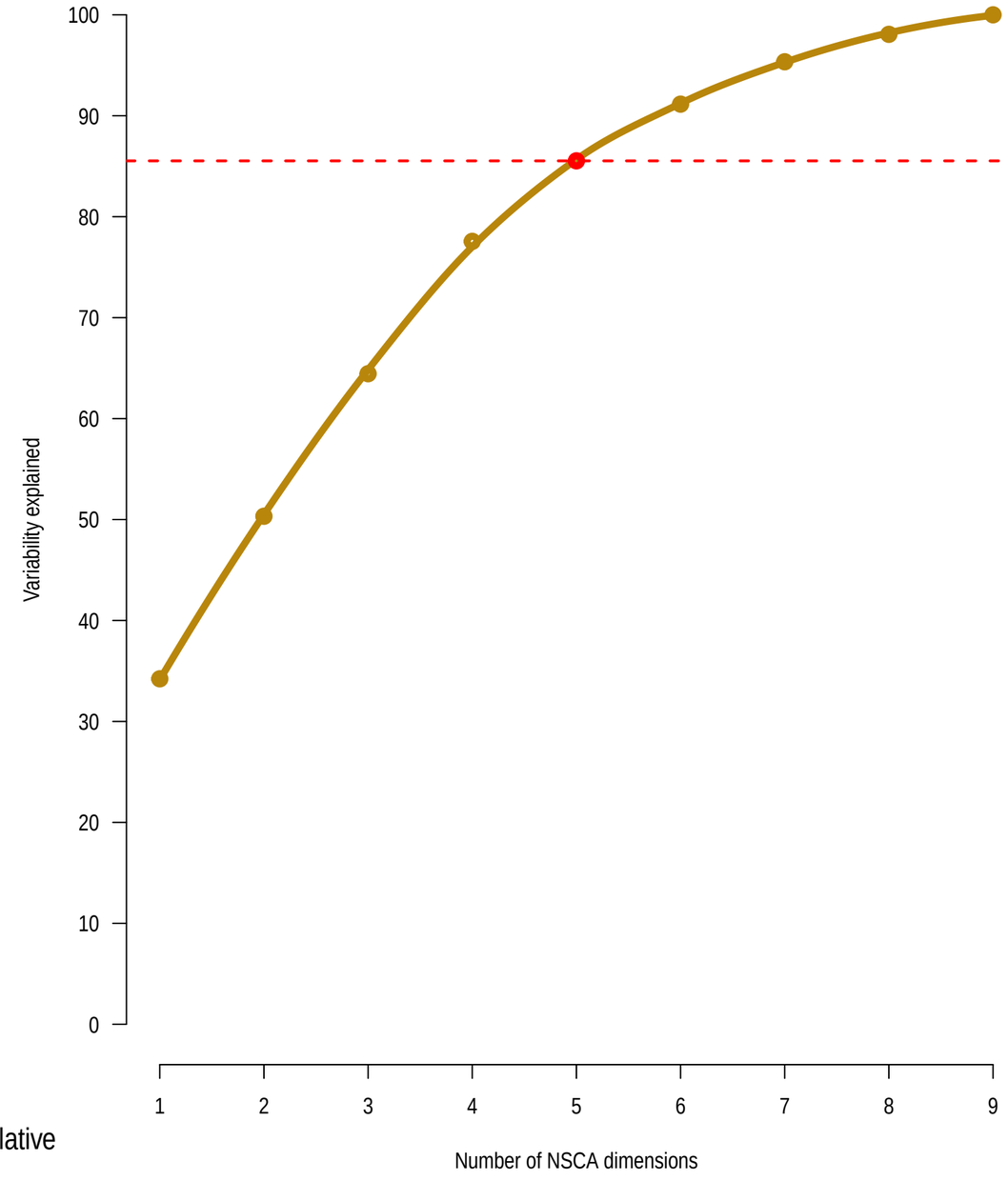
Control samples

Minimum dimensions to explain 80.43% : 30



Case samples

Minimum dimensions to explain 85.53% : 5



Cumulative

RDA: Top 50 feature signature, MAJORITIES ranking method was applied

Ranking	ID	SYMBOL	UpDw	Profile	overlap.Ctrl.Case	Standard.Chi.Square	Repeats	Repeats.index	delta.signal	sd.Ctrl	Dendrogram.group.Ctrl	h.Range.Ctrl	sd.Case	Dendrogram.group.Case	h.Range.Case
1	SERF1A	SERF1A	UP	Majority	0.355	79.336	50	62.319	1.49776811430375	2.001	6	36.933	1.155	1	1.129
2	NCR3	NCR3	DOWN	Majority	0.355	34.078	11	56.522	−1.14825166909042	1.09	5	23.377	0.031	9	0.053
3	TCHHL1	TCHHL1	DOWN	Majority	0.366	29.269	8	39.13	−1.23613135678476	1.215	7	21.969	0.031	9	0.064
4	GUSBP2	GUSBP2	DOWN	Majority	0.306	8.73	3	18.841	−1.63956290305801	1.361	3	47.463	0.685	7	3.718
5	GUSBP15	NotAssigned	UP	Majority	0.385	17.908	2	14.493	0.709382471741705	2.291	5	57.243	0.777	2	0.192
6	MOXD1	MOXD1	DOWN	Majority	0.398	8.164	2	13.043	−0.444836262552745	1.849	2	65.323	1.578	5	9.923
7	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
8	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
9	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
10	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
11	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
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16	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
17	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
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50	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned

X RDA info X NSCA: CONTROL info X NSCA: CASE info

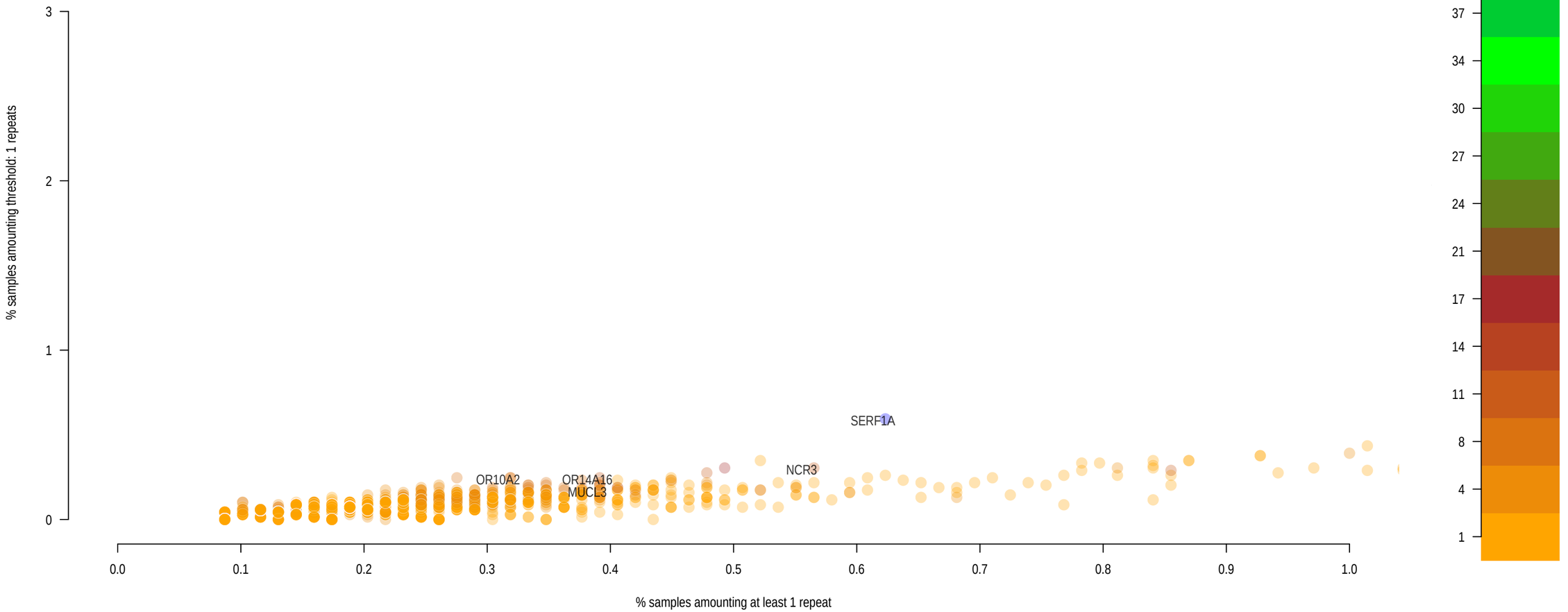
RDA: Top 50 feature signature, MINORITIES ranking method was applied

Ranking	ID	SYMBOL	UpDw	Profile	overlap.Ctrl.Case	Standard.Chi.Square	Repeats	Repeats.index	delta.signal	sd.Ctrl	Dendrogram.group.Ctrl	h.Range.Ctrl	sd.Case	Dendrogram.group.Case	h.Range.Case
1	NUTM1	NUTM1	DOWN	Minority	0.746	4.411	1	8.696	−0.80205637	1.584	1	65.080	1.905	4	16.484
2	DYTN	DYTN	DOWN	Minority	0.662	4.985	1	8.696	−0.55174154	1.408	1	49.723	1.474	2	10.086
3	SEL1L2	SEL1L2	DOWN	Minority	0.735	8.471	2	11.594	−0.58186570	1.595	1	66.888	1.499	2	15.149
4	CFAP210	CFAP210	DOWN	Minority	0.667	8.640	2	13.043	−0.35537511	1.265	1	54.257	0.744	3	7.085
5	PRR5L	PRR5L	DOWN	Minority	0.705	6.528	2	11.594	−0.25888992	0.803	2	27.229	0.911	6	4.427
6	PHTF2	PHTF2	DOWN	Minority	0.693	6.762	1	8.696	−0.32546299	0.757	4	25.224	0.427	2	3.190
7	ZIC2	ZIC2	DOWN	Minority	0.610	6.524	2	11.594	−0.17340546	1.357	2	56.331	1.427	6	4.715
8	SFRP5	SFRP5	DOWN	Minority	0.500	7.003	1	8.696	0.86816003	1.764	6	51.993	2.340	10	8.578
9	ABCC6P1	ABCC6P1	UP	Minority	0.743	4.833	1	8.696	0.09295986	0.396	9	11.898	0.565	7	1.098
10	LINC02431	LINC02431	DOWN	Minority	0.666	4.274	1	8.696	−0.89613295	1.887	1	74.291	1.816	5	19.776
11	XPA	XPA	UP	Minority	0.711	5.920	1	8.696	−0.02262502	0.482	10	29.394	0.613	8	0.532
12	ADGRG5	ADGRG5	DOWN	Minority	0.631	4.753	1	8.696	−1.27804227	1.491	3	41.735	2.312	6	11.866
13	C9orf43	C9orf43	DOWN	Minority	0.717	4.649	1	8.696	−0.28388848	0.894	1	35.818	0.886	4	8.002
14	SLC25A48−AS1	SLC25A48−AS1	DOWN	Minority	0.621	9.691	1	8.696	−0.65959799	1.914	2	91.334	1.659	2	12.988
15	C10orf62	C10orf62	DOWN	Minority	0.673	6.460	2	11.594	−0.47339230	1.545	1	63.270	1.392	3	13.350
16	AGPAT1	AGPAT1	DOWN	Minority	0.700	6.040	2	11.594	−0.23075618	0.594	3	23.403	0.736	1	6.133
17	CNN3−DT	NotAssigned	DOWN	Minority	0.726	5.612	1	8.696	−0.43720368	0.425	7	13.576	0.505	6	1.769
18	DNAI4	DNAI4	DOWN	Minority	0.734	5.791	2	11.594	−0.49739669	0.877	4	42.183	0.748	4	6.513
19	MYOC	MYOC	DOWN	Minority	0.721	9.760	2	33.333	−0.82576740	1.830	2	67.328	1.655	6	10.772
20	TRPM6	TRPM6	DOWN	Minority	0.712	5.615	2	11.594	−0.43147186	0.671	1	23.927	0.454	5	4.208
21	ANXA10	ANXA10	DOWN	Minority	0.699	3.712	1	8.696	−0.43563533	1.483	1	51.584	1.469	3	12.683
22	NPTX1	NPTX1	DOWN	Minority	0.636	6.098	1	8.696	−1.06216709	1.444	3	51.976	1.691	6	10.039
23	SLC15A5	SLC15A5	DOWN	Minority	0.632	9.308	3	18.841	−1.03658866	1.557	1	53.110	1.218	2	8.075
24	TTC13	TTC13	DOWN	Minority	0.712	3.891	1	8.696	−0.27036643	0.466	1	12.739	0.307	9	0.928
25	LINC02389	LINC02389	DOWN	Minority	0.696	6.431	1	8.696	−0.60027191	0.950	7	39.591	0.761	10	2.905
26	NOS2	NOS2	DOWN	Minority	0.557	3.918	1	17.391	0.11922337	1.369	8	34.948	1.615	7	4.728
27	CPEB1−AS1	CPEB1−AS1	DOWN	Minority	0.689	3.823	1	8.696	−0.09400359	1.499	7	51.824	1.102	6	5.329
28	SLC43A3	SLC43A3	DOWN	Minority	0.678	7.302	2	11.594	0.04116651	1.561	8	52.394	1.481	6	0.133
29	SPACA9	SPACA9	DOWN	Minority	0.748	6.311	2	11.594	0.07721611	0.557	1	22.146	0.409	5	0.860
30	SNRNP70	SNRNP70	UP	Minority	0.734	4.088	1	8.696	0.22908074	0.259	9	6.630	0.316	8	0.162
31	WDR64	WDR64	DOWN	Minority	0.640	7.254	2	11.594	−0.90564566	1.436	1	60.721	1.360	3	14.935
32	MAB21L2	MAB21L2	DOWN	Minority	0.656	9.997	1	8.696	−0.05150291	1.163	6	12.351	1.030	9	4.984
33	ABCA10	ABCA10	DOWN	Minority	0.705	6.387	2	11.594	−0.48798143	1.086	1	43.085	0.813	3	7.723
34	SEC14L6	SEC14L6	DOWN	Minority	0.663	4.585	1	8.696	0.34658936	1.152	7	31.024	1.666	10	6.130
35	PRRX1	PRRX1	DOWN	Minority	0.735	6.586	1	8.696	−0.04912337	1.569	1	63.787	1.196	10	3.797
36	ACTA2	ACTA2	DOWN	Minority	0.726	4.046	1	8.696	0.01430755	0.794	7	29.057	1.363	10	3.813
37	AGFG1	AGFG1	DOWN	Minority	0.679	6.002	2	15.942	−0.30687596	0.728	4	37.544	0.512	4	5.004
38	KIF17	KIF17	DOWN	Minority	0.734	6.316	2	11.594	−0.53250402	1.484	3	62.215	1.437	3	14.208
39	SNX20	SNX20	DOWN	Minority	0.701	5.822	1	8.696	−0.66439809	1.924	8	63.046	1.889	10	5.840
40	CFAP61	CFAP61	DOWN	Minority	0.606	8.274	2	11.594	−0.74232761	1.487	1	64.268	1.122	3	12.532
41	WNT2	WNT2	DOWN	Minority	0.725	5.886	2	11.594	−0.37422587	1.809	1	70.085	1.214	5	10.892
42	AIM2	AIM2	DOWN	Minority	0.649	5.339	1	8.696	−0.54603251	1.640	1	65.751	1.409	5	14.566
43	SPMIP2	SPMIP2	DOWN	Minority	0.655	6.029	1	8.696	−0.54594248	1.701	1	67.673	1.569	5	12.632
44	CYB5RL	CYB5RL	UP	Minority	0.740	5.083	1	8.696	0.20651894	0.317	9	7.514	0.273	1	1.490
45	ANKRD36B	ANKRD36B	DOWN	Minority	0.667	8.308	2	27.536	−0.56215731	1.055	1	42.707	0.729	4	7.124
46	NPL	NPL	DOWN	Minority	0.712	7.700	2	47.826	−0.11901397	0.829	7	28.696	0.365	10	1.191
47	MS4A13	MS4A13	DOWN	Minority	0.531	6.727	2	11.594	−0.27745649	1.766	7	62.256	1.340	5	12.152
48	ANKRD30A	ANKRD30A	DOWN	Minority	0.708	4.044	1	8.696	−0.59830985	1.448	1	62.229	1.210	5	12.850
49	LINC01141	NotAssigned	DOWN	Minority	0.631	5.722	1	8.696	−0.89095420	1.964	2	70.400	1.628	3	14.984
50	ZBTB26	ZBTB26	DOWN	Minority	0.672	4.684	1	8.696	−0.47594083	0.803	4	44.593	0.872	4	5.738

X RDA info X NSCA: CONTROL info X NSCA: CASE info

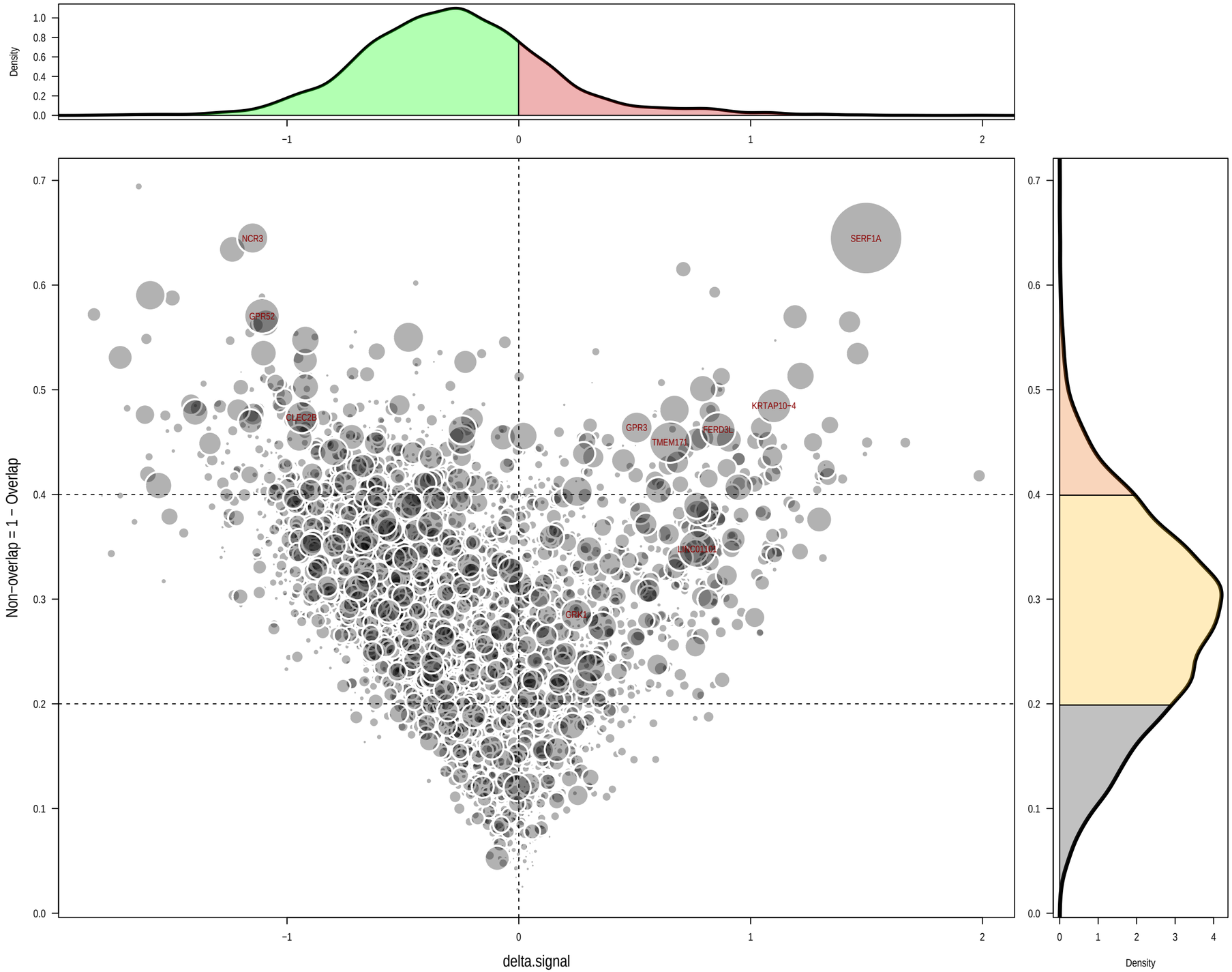
RDA: Repeats threshold based on differential events distribution per feature

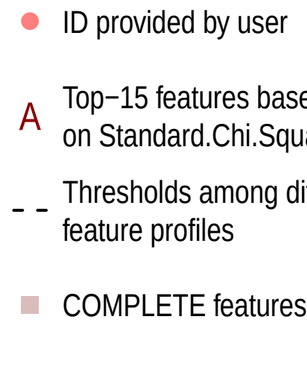
● 0 features within <= 5 % samples with at least 1 repeats.



RDA: overlap Signal VS delta Signal plot

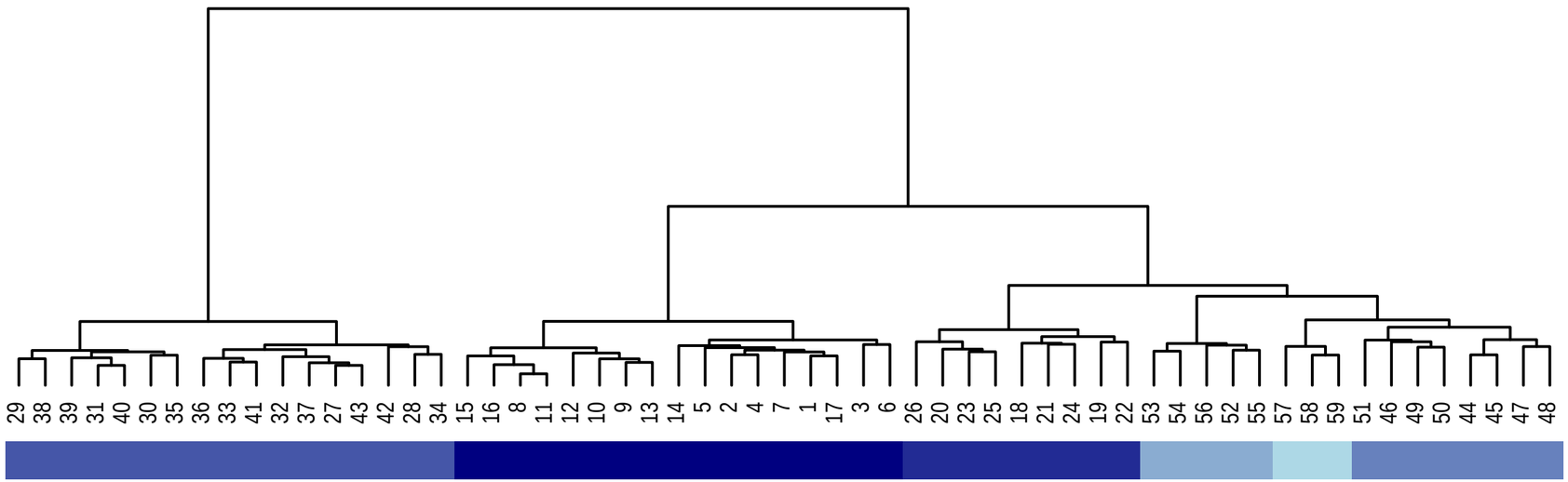
Circle size corresponds to relative amount of 'Standard.Chi.Square' per feature.
Higher circles indicate more DIFFERENTIAL SIGNAL between both classes.





NSCA: Subclasses of samples found based on 'h' statistic

CONTROL samples

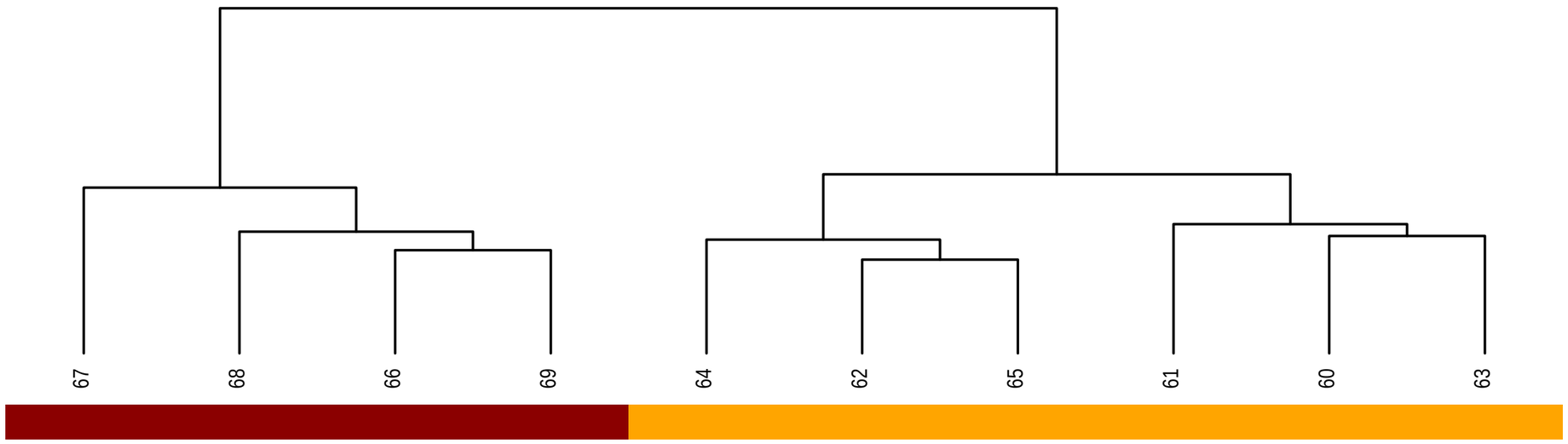


Hubber's gamma coefficient for cutting dendrogram: 0.622

Subclasses of samples found

- FERTILE Subclass 1
- FERTILE Subclass 2
- FERTILE Subclass 3
- FERTILE Subclass 4
- FERTILE Subclass 5
- FERTILE Subclass 6
- SIMPLE_INFERTILITY Subclass 1
- SIMPLE_INFERTILITY Subclass 2

CASE samples



Hubber's gamma coefficient for cutting dendrogram: 0.716

Mean 'h' statistic per subclass within CONTROL samples

Top 50 discriminant features among subclasses found by DECO algorithm.

ID	SYMBOL	Standard.Chi.Square	Ranking.Scl1.Ctrl	h.Scl1.Ctrl	Ranking.Scl2.Ctrl	h.Scl2.Ctrl	Ranking.Scl3.Ctrl	h.Scl3.Ctrl	Ranking.Scl4.Ctrl	h.Scl4.Ctrl	Ranking.Scl5.Ctrl	h.Scl5.Ctrl	Ranking.Scl6.Ctrl	h.Scl6.Ctrl	h.Range.Ctrl	Dendrogram.group.Ctrl	Dendrogram.order.Ctrl
HLA−DQB1	HLA−DQB1	29.936348	2976	−19.531127	605	−13.0565035	1504	28.70125970	1408	8.5272693	5886	−1.3773257	1	153.13818	172.66930	6	4486
WFDC21P	WFDC21P	17.335275	5349	−6.389238	1097	−9.6251185	5103	8.91598834	350	16.7532883	4297	4.2380397	2	111.05918	120.68430	6	4485
NKX2−1	NKX2−1	10.805975	4840	−8.964946	1185	−9.2486327	6141	3.26975470	893	−11.2453817	3307	−6.1600589	3	101.54498	112.79036	5	4196
MIR9−2HG	MIR9−2HG	10.276745	1842	−26.550284	629	−12.8396166	3057	20.92131098	2516	−5.2750099	6532	0.2808331	10	81.44336	107.99364	7	5071
TERT	TERT	13.756876	2288	−23.899501	3265	4.2096924	4739	11.21421847	4768	2.0374129	328	−18.8073955	18	78.05768	101.95718	7	4958
GJD2	GJD2	17.214469	2502	−22.628680	2	−39.1195223	2497	23.90678681	228	19.3759034	4427	4.0005328	63	62.30677	101.42629	7	5084
S1PR4	S1PR4	14.109416	5129	−7.554945	162	−19.3361431	6642	0.48823471	281	17.8583616	254	−20.0804420	11	81.21704	101.29748	5	4150
PODN	PODN	10.515975	3726	−14.961722	2814	−4.9210615	5767	4.88190081	997	−10.5505306	3265	6.2391978	5	85.57965	100.54137	5	4203
PHOX2B	PHOX2B	22.972503	3867	−14.106971	2488	−5.4911665	4539	12.24799486	953	−10.8190727	630	−15.4575807	7	84.48784	99.94542	5	4093
TNFRSF4	TNFRSF4	20.782351	1693	−27.339495	1055	−9.7920433	4203	14.03334005	43	27.2398122	104	−25.0373773	30	72.59231	99.93180	8	6160
SLC22A12	SLC22A12	24.693752	2768	−21.000384	65	−23.1734716	2660	23.15663489	4894	−1.8812992	746	−14.6297403	25	74.52635	97.69982	7	5088
C1QL2	C1QL2	12.918646	3212	−18.064546	901	−10.6863213	4897	10.19269184	4821	1.9717696	2143	−9.0185756	15	79.63140	97.69595	5	4094
PDX1	PDX1	12.147627	4136	−12.591086	2641	−5.2153688	5667	5.49139610	2462	−5.3625773	1903	−9.6179056	6	85.03132	97.62240	5	4181
SLC6A18	SLC6A18	13.942324	3755	−14.804548	2376	−5.7486976	5150	8.60144614	1033	−10.3567738	2561	−7.8594441	9	81.84725	96.65180	5	4177
SBF1P1	SBF1P1	21.976216	4637	−9.894302	1429	−8.2890630	6086	−3.49505889	1383	8.6471827	3867	−5.0773448	4	86.43934	96.33364	5	4202
NR2E1	NR2E1	14.739946	4915	−8.637803	305	−16.5934619	6028	3.74292883	1431	−8.4647355	2812	7.2741415	14	79.65499	96.24845	5	4147
OLIG2	OLIG2	17.752771	2663	−21.634210	9	−30.0974630	3282	19.61208753	6209	−0.4528773	483	16.7825908	53	64.95547	95.05293	7	5069
VGLL2	VGLL2	8.719934	3785	−14.636901	1690	−7.4616716	5635	5.64266883	6250	0.4096553	4204	−4.4188816	13	80.36554	95.00244	5	4184
NKX2−2	NKX2−2	22.145183	1998	−25.721241	632	−12.8152712	2134	25.69498953	4629	−2.1967016	2454	−8.1479426	37	68.89605	94.61729	7	5074
GPIHBP1	GPIHBP1	15.964712	3234	−17.851887	4975	−1.9824619	5134	8.72471086	3661	−3.3882736	3667	−5.4688076	22	75.89532	93.74720	5	4187
FOXB2	FOXB2	11.425950	4712	−9.528615	1249	−9.0044154	5808	4.68317110	6356	0.3059118	448	−17.2538242	21	76.14964	93.40347	5	4193
FLJ16779	FLJ16779	16.403965	2265	−24.071136	842	−11.0144755	3794	16.52184177	1554	7.8598129	1714	−10.2065456	38	68.87652	92.94765	5	4100
PRRT4	PRRT4	7.236494	4610	−10.052837	1092	−9.6383295	4851	10.53354072	5511	1.2051861	100	−25.4705546	48	66.67156	92.14212	5	4111
NKX2−5	NKX2−5	18.476272	4304	−11.571906	2301	−5.9019032	6606	−0.74875862	4730	2.0808225	6609	0.1587024	12	80.40624	91.97815	5	4199
ZSCAN10	ZSCAN10	15.134476	3999	−13.374694	1802	−7.1293905	5396	7.10470737	4024	−2.8951082	1814	−9.8831991	17	78.37635	91.75104	5	4180
BHLHE22	BHLHE22	9.384731	4938	−8.545458	1651	−7.5773190	6535	1.23248382	1373	−8.6925826	6528	0.2857390	8	83.00072	91.69330	5	4045
SLC35D3	SLC35D3	23.030705	6555	−1.141007	657	−12.5745296	6379	−2.16932647	3237	−3.9588460	1803	−9.9157746	16	79.00827	91.58280	5	4195
HAND2	HAND2	9.677696	5392	−6.199129	1697	−7.4463046	6296	2.51904726	4088	−2.8155459	883	−13.7421308	19	77.80459	91.54672	5	4210
SLC25A48−AS1	SLC25A48−AS1	9.691498	1333	−29.157397	425	−14.9188435	43	37.74273577	809	11.7418019	2659	7.6389156	131	−53.59078	91.33352	2	2322
OR2K2	OR2K2	13.278428	1452	−28.620583	2407	−5.6624098	16	39.14599309	905	−11.1198027	512	16.5195328	149	−51.71499	90.86099	1	381
APLNR	APLNR	11.666939	4945	−8.502975	1888	−6.9052005	6693	0.11000683	2318	5.6454102	842	−13.9857659	20	76.72516	90.71092	5	4223
MMRN1	MMRN1	6.999974	103	−37.243943	4040	3.1039266	9	39.61345126	6433	0.2554655	601	15.7180880	161	−50.99277	90.60622	1	1679
SIGLEC1	SIGLEC1	4.045510	3758	−14.794537	46	−25.1120850	5020	9.43435124	179	20.6948465	1829	−9.8156728	52	65.43972	90.55181	8	6174
LHX3	LHX3	9.337117	2531	−22.411268	321	−16.2898598	4167	14.28592366	728	12.3745490	4114	−4.6198327	43	68.13528	90.54655	7	5080
GAL3ST3	GAL3ST3	18.620673	3067	−18.978758	4378	−2.7008977	4396	12.97954490	1211	−9.3419102	5914	1.3485475	32	71.50239	90.48115	5	4080
SLC9C2	SLC9C2	6.500812	743	−31.813393	3852	−3.3778033	158	35.65645218	3517	3.5555914	310	19.0772333	121	−54.03731	89.69376	1	596
HMX2	HMX2	14.277204	4267	−11.783367	466	−14.3851856	5293	7.78484645	6448	0.2421782	1246	−12.0266098	23	75.19120	89.57639	5	4197
C1QB	C1QB	11.925762	4578	−10.209609	1	−45.7175953	5220	8.22289675	3	43.8241943	1577	−10.7358070	290	41.43464	89.54179	8	6175
KCNG4	KCNG4	10.051374	3446	−16.508072	15	−29.4694269	4719	11.34444039	171	20.8654089	5757	1.5947569	79	59.96470	89.43413	7	5078
MAG	MAG	9.275067	1407	−28.865434	4851	2.1370448	3514	18.23287675	5977	0.6977762	3291	−6.1975804	72	60.41822	89.28366	5	4104
KCNK4	KCNK4	9.003595	1331	−29.163017	5571	−1.2682264	3639	17.33018706	3272	3.8942509	4698	−3.4765190	82	59.43736	88.60038	7	5133
SOST	SOST	10.035143	5964	−3.834391	420	−14.9904816	6509	−1.42616107	5105	1.6483542	5289	−2.4229819	29	73.50933	88.49981	5	4240
NGB	NGB	25.294326	3788	−14.623707	1567	−7.8193382	5471	6.59539076	6039	0.6427138	2784	−7.3407994	27	73.79135	88.41506	5	4095
WNT16	WNT16	20.470029	2528	−22.430783	1159	−9.3866950	4280	13.60381115	978	10.6423461	5496	−2.0354173	50	65.64683	88.07761	5	4162
IL17C	IL17C	10.026021	5317	−6.562466	104	−21.0738736	6697	0.08790356	445	15.2653732	3142	−6.5183534	47	66.86131	87.93518	5	4163
NKX6−1	NKX6−1	9.855783	2875	−20.251514	300	−16.6359931	3429	18.67690292	2797	4.6625518	953	−13.4163292	46	67.25389	87.50540	5	4091
NME8	NME8	12.271904	1	−44.298782	6109	0.6816525	1	43.20154671	4057	2.8488112	1988	9.4208100	1926	−17.21251	87.50033	1	1060
MOXD2P	MOXD2P	12.173259	1869	−26.440981	485	−14.1977989	1922	26.76843809	42	27.3557546	263	19.8960215	77	−60.02380	87.37955	7	5326
LINC02398	LINC02398	5.120354	1543	−28.154670	3294	−4.1521218	339	34.18240080	3663	3.3879919	1073	12.7925791	135	−53.09408	87.27648	1	387
TMPRSS11B	TMPRSS11B	10.349993	2394	−23.336740	1308	−8.7274824	635	32.50089263	2300	5.6746611	2645	7.6582073	119	−54.36102	86.86191	1	377

Mean 'h' statistic per subclass within CASE samples

Top 50 discriminant features among subclasses found by DECO algorithm.

ID	SYMBOL	Standard.Chi.Square	Ranking.Scl1.Case	h.Scl1.Case	Ranking.Scl2.Case	h.Scl2.Case	h.Range.Case	Dendrogram.group.Case	Dendrogram.order.Case
HLA−DQB1	HLA−DQB1	29.936348	5921	0.4138556	1	−39.33490	39.74875	4	2465
MARCO	MARCO	21.081924	604	−5.2744620	2	34.33173	39.60620	9	5620
ZNF716	ZNF716	22.410108	267	6.0667624	3	−30.06547	36.13223	4	2120
POSTN	POSTN	26.402000	1	−13.8705885	8	20.82158	34.69217	9	5462
SERPINE1	SERPINE1	10.960646	2	−13.8350095	10	20.33550	34.17051	9	5465
NBPF22P		16.696481	1786	3.6758446	4	−27.22643	30.90227	4	2225
TSPO2	TSPO2	16.130867	298	5.9993028	6	−22.26172	28.26102	4	2211
COL1A2	COL1A2	8.086655	3	−11.5379174	14	16.62917	28.16709	9	5463
TUBAL3	TUBAL3	10.396959	191	6.2907927	7	−20.82174	27.11254	4	2229
FAM99A	FAM99A	13.230451	184	6.3152242	9	−20.60976	26.92498	4	2176
MIMT1	MIMT1	13.725837	202	6.2464866	11	−20.11230	26.35878	4	2116
CCN2	CCN2	14.067035	4	−10.6832396	17	14.79789	25.48113	9	5464
HCG4B		4.551944	5	9.9237345	16	−14.84385	24.76758	2	809
SLCO1C1	SLCO1C1	5.596392	6	9.7860956	19	−14.38879	24.17489	5	3395
LINC00502		15.612751	635	5.2240570	12	−18.29487	23.51893	4	2228
NKX2−1	NKX2−1	10.805975	7	−9.5710172	23	13.88405	23.45507	9	5460
COL11A2	COL11A2	10.645654	10	9.2845075	22	−14.11916	23.40367	5	2677
CCDC136	CCDC136	10.700800	458	5.5492712	13	−17.71943	23.26870	4	2259
DCHS2	DCHS2	6.798167	9	9.3992820	25	−13.57687	22.97615	2	764
LINC00221	LINC00221	6.021059	8	9.4033340	26	−13.56857	22.97191	3	1314
OR2H1	OR2H1	10.804990	12	9.0138773	27	−13.28353	22.29740	2	876
JRKL−AS1		6.098438	14	8.7571143	28	−13.04788	21.80499	5	3140
HTR2A	HTR2A	5.711840	15	8.7535307	29	−12.98853	21.74206	3	1622
LINC00251	LINC00251	5.014666	16	8.7412274	30	−12.96369	21.70491	3	1657
CCL14	CCL14	8.011274	18	8.7097515	32	−12.67246	21.38221	1	495
PRNT	PRNT	8.253048	17	8.7245771	33	−12.62225	21.34682	5	2952
TNFRSF17	TNFRSF17	4.188712	19	8.6582622	36	−12.51439	21.17265	3	1313
EREG	EREG	10.226004	13	−8.7794706	39	12.38005	21.15952	9	5461
PRRT4	PRRT4	7.236494	20	−8.3910647	37	12.41607	20.80714	9	5389
MUC7	MUC7	17.749270	3255	2.1888349	5	22.89670	20.70787	9	5622
ADRA1B	ADRA1B	4.884035	23	−8.2709364	38	12.40223	20.67317	9	5390
LINC00609	LINC00609	9.684404	21	8.3732904	43	−12.26992	20.64321	4	2290
DRD3	DRD3	7.741616	24	8.2331822	42	−12.30495	20.53813	5	2949
SZRD1P1		6.942272	22	8.3173280	44	−12.10570	20.42303	3	1378
IGLL5	IGLL5	4.652579	29	8.0209151	41	−12.32523	20.34615	3	1488
CNTN1	CNTN1	3.882557	27	8.1001678	45	−12.10414	20.20430	3	1133
FAM170B−AS1	FAM170B−AS1	5.818834	25	8.1256648	46	−11.96755	20.09322	4	2354
LINC02431	LINC02431	4.273629	26	8.1131569	51	−11.66297	19.77613	5	3387
FCRL3	FCRL3	8.802858	35	7.8981499	49	−11.85007	19.74822	4	2348
RPL3L	RPL3L	10.525080	34	7.9101155	50	−11.74419	19.65431	2	917
SCG5	SCG5	11.361975	30	8.0141756	53	−11.57441	19.58859	4	2332
CCL15−CCL14		7.707258	31	7.9428547	52	−11.61864	19.56149	5	3391
ADORA2B	ADORA2B	10.071596	32	−7.9267034	55	11.55311	19.47982	9	5394
LHX3	LHX3	9.337117	40	−7.6629251	54	11.56844	19.23136	10	5798
PRSS40A	PRSS40A	4.748420	36	7.8488680	58	−11.34376	19.19262	5	2955
MACC1−AS1	MACC1−AS1	5.408032	39	7.6806352	56	−11.45672	19.13735	3	1153
GOLGA8DP	GOLGA8DP	7.379086	38	7.7446630	59	−11.29163	19.03629	4	2330
LINC00880	LINC00880	17.559112	880	4.8325666	21	−14.20022	19.03279	4	2245
ANKRD20A9P		8.577375	42	7.6255072	57	−11.34727	18.97278	3	2031
SLC5A5	SLC5A5	14.525507	28	−8.0675303	80	10.71210	18.77963	9	5459