

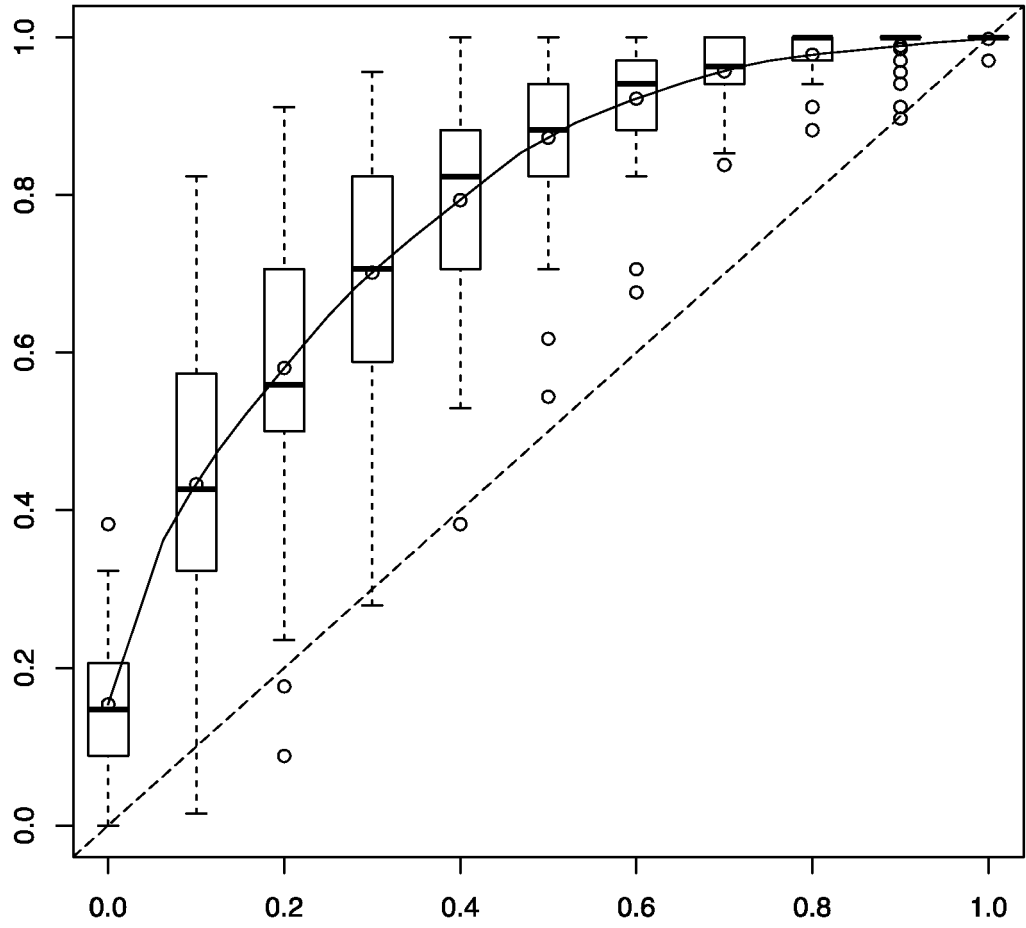


FIG. 1A

2 / 35

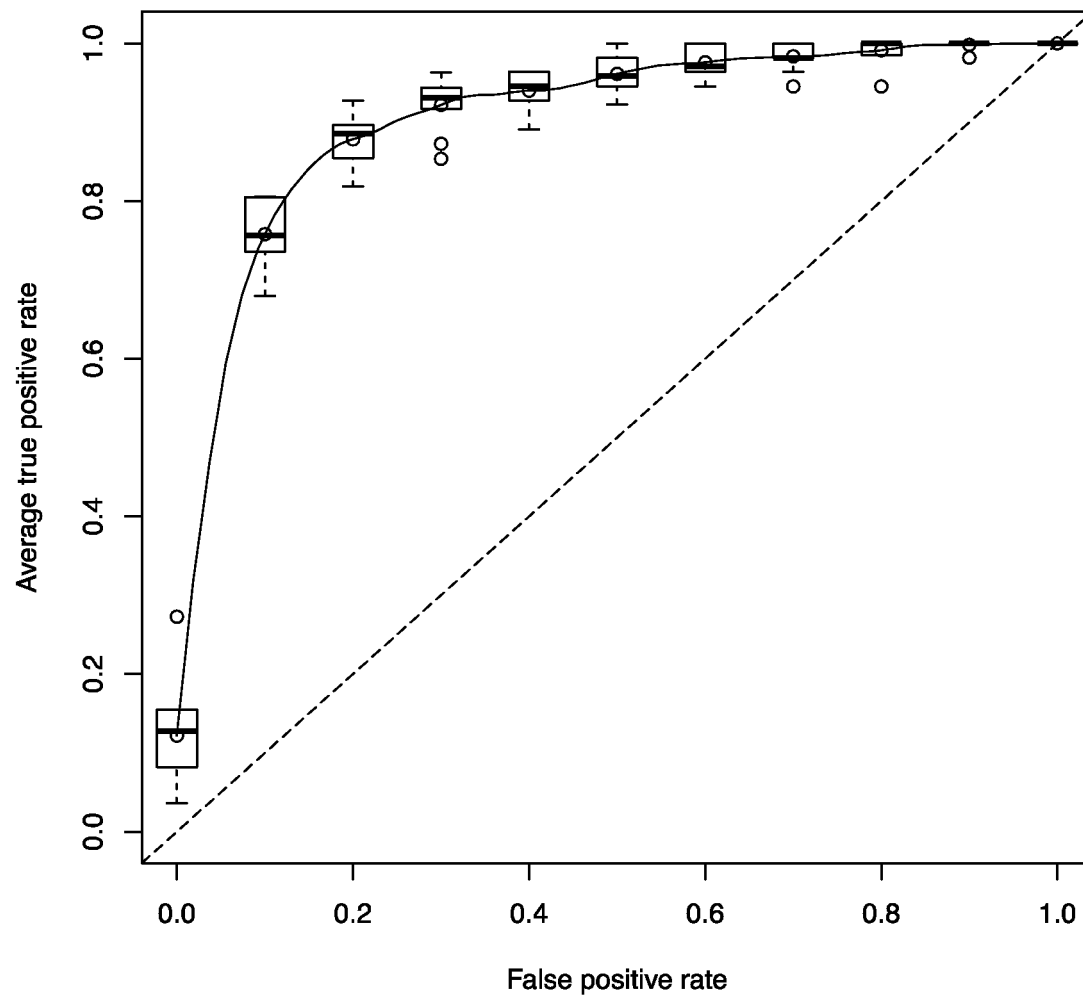


FIG. 1B

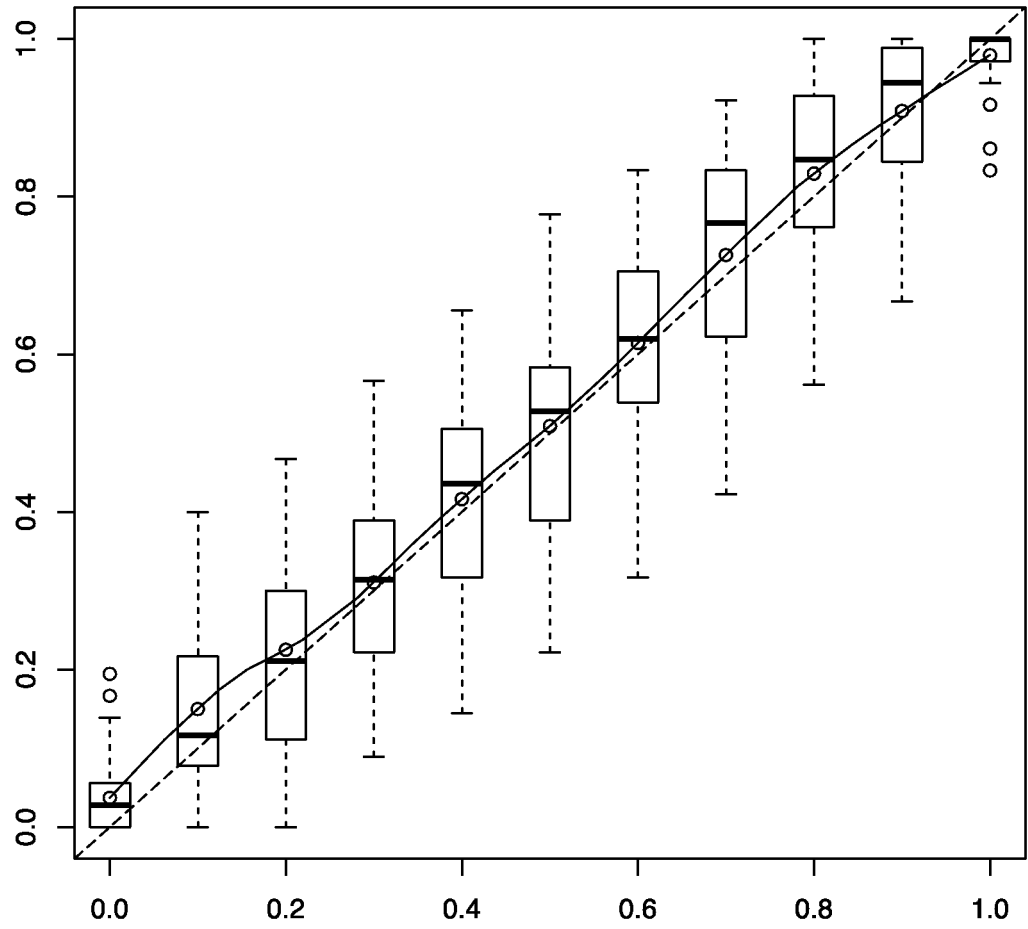


FIG. 2A

4 / 35

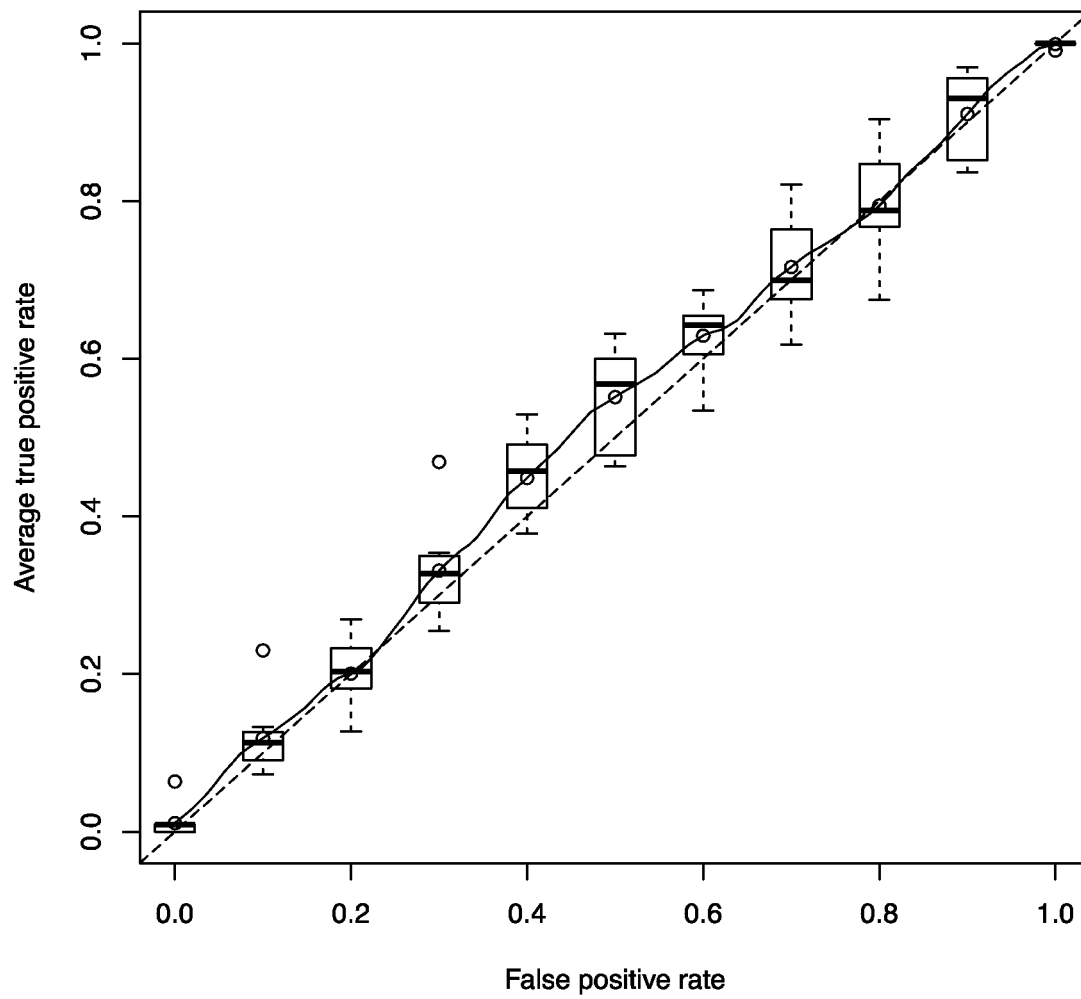


FIG. 2B

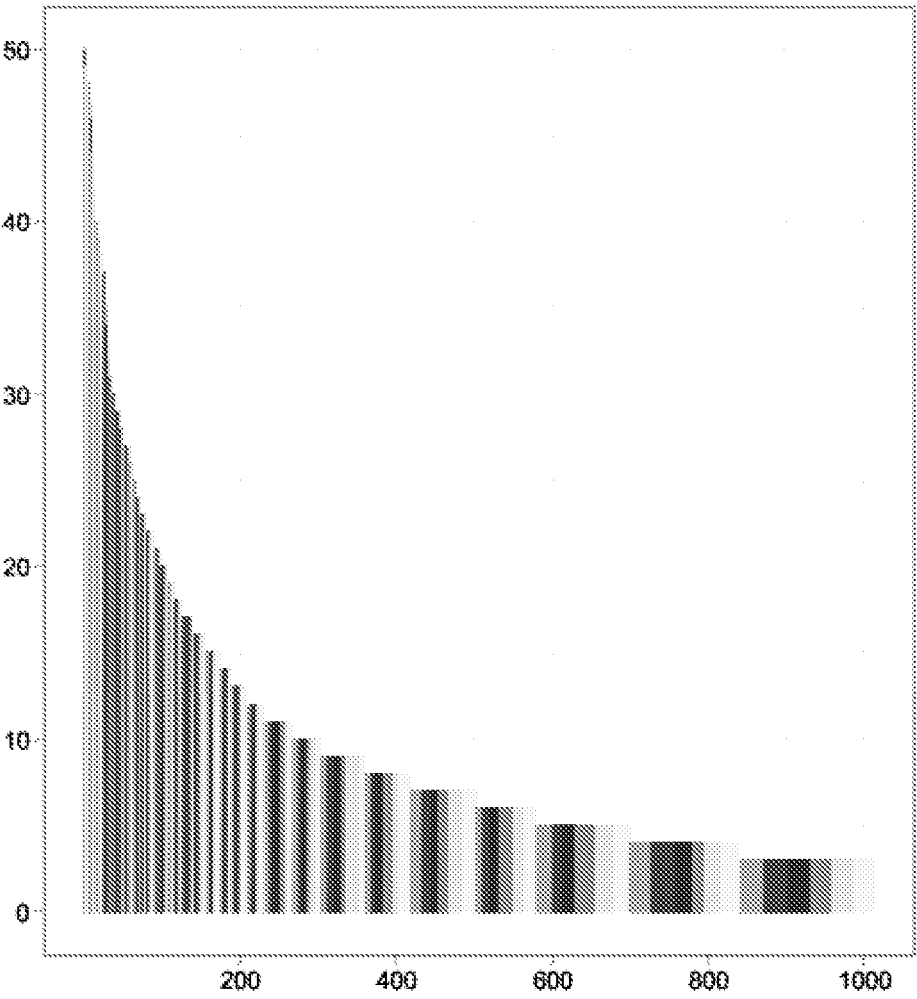


FIG. 3

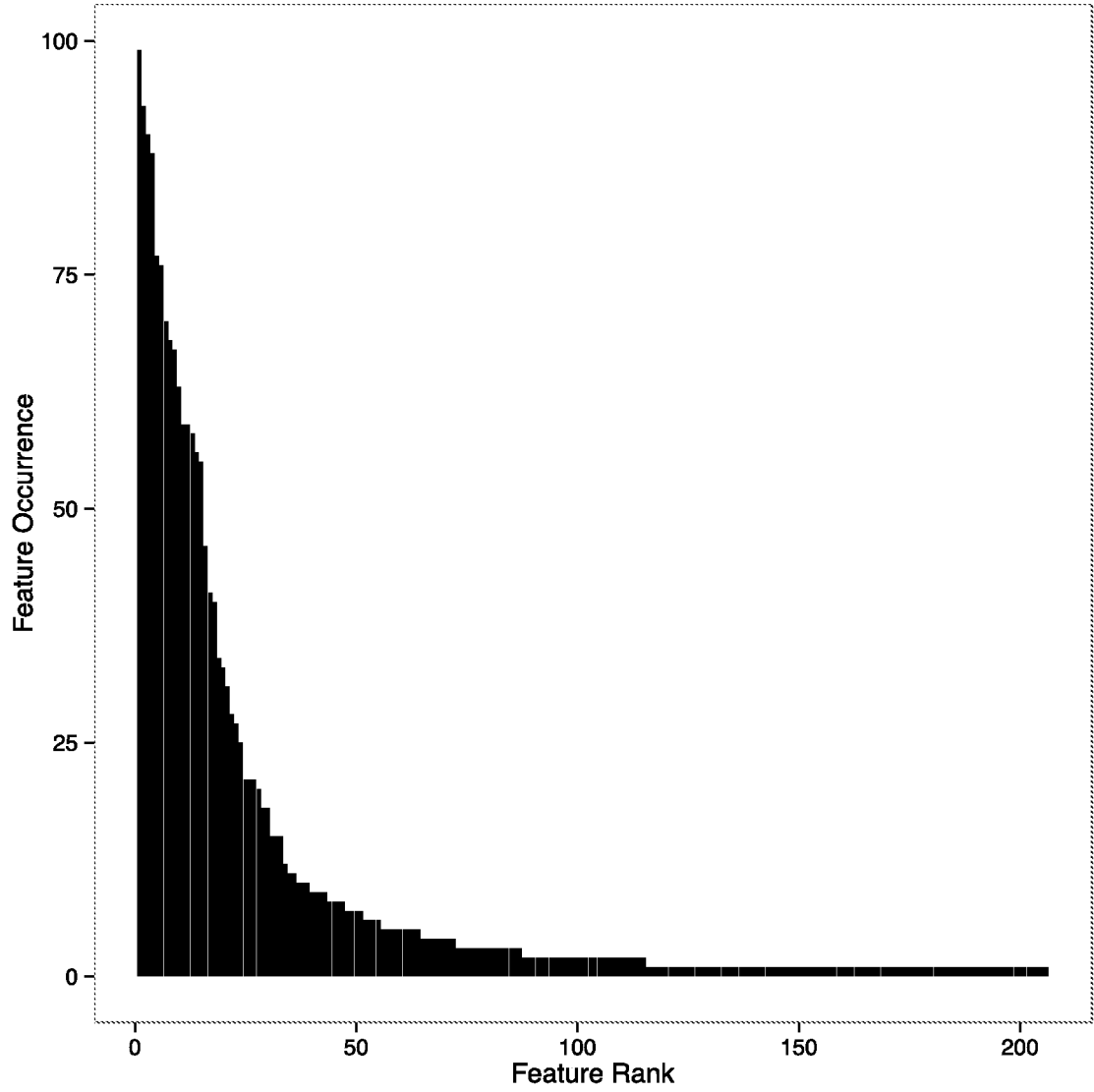


FIG. 4

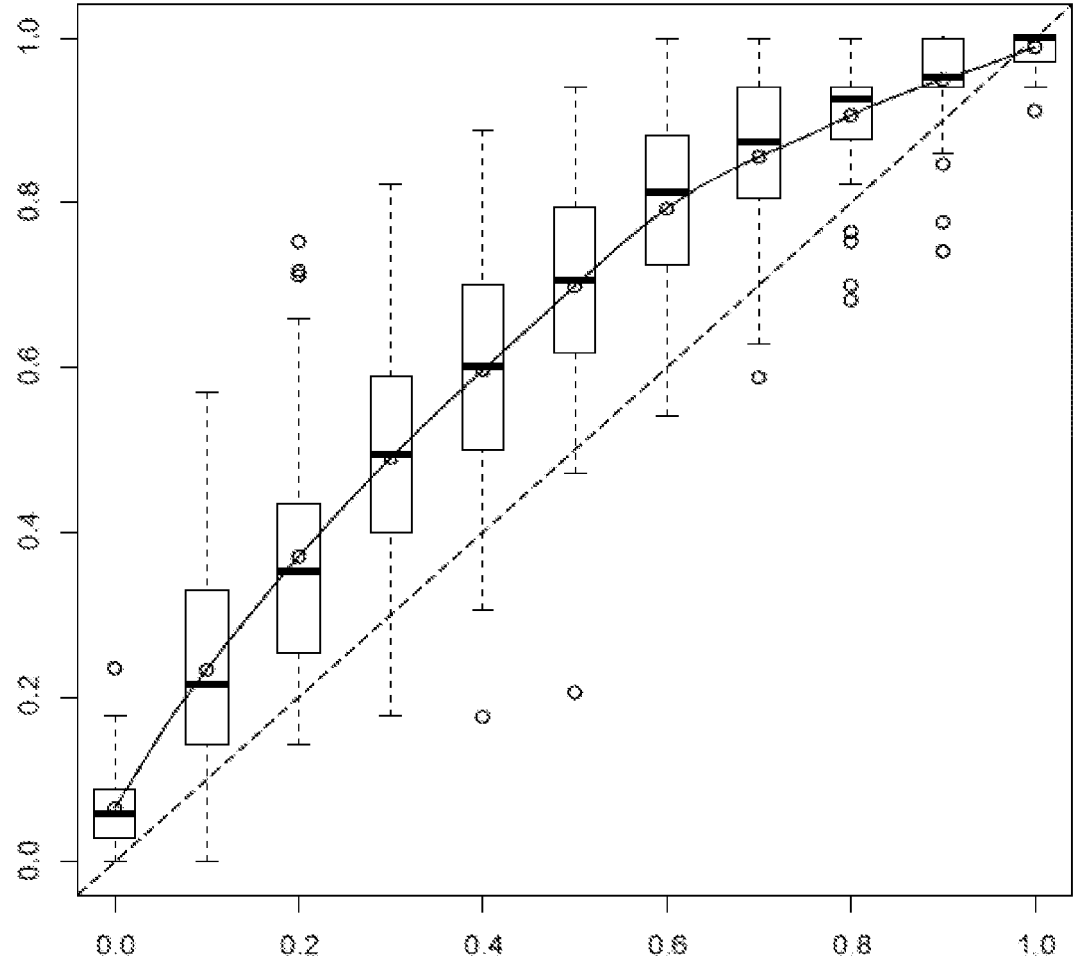


FIG. 5

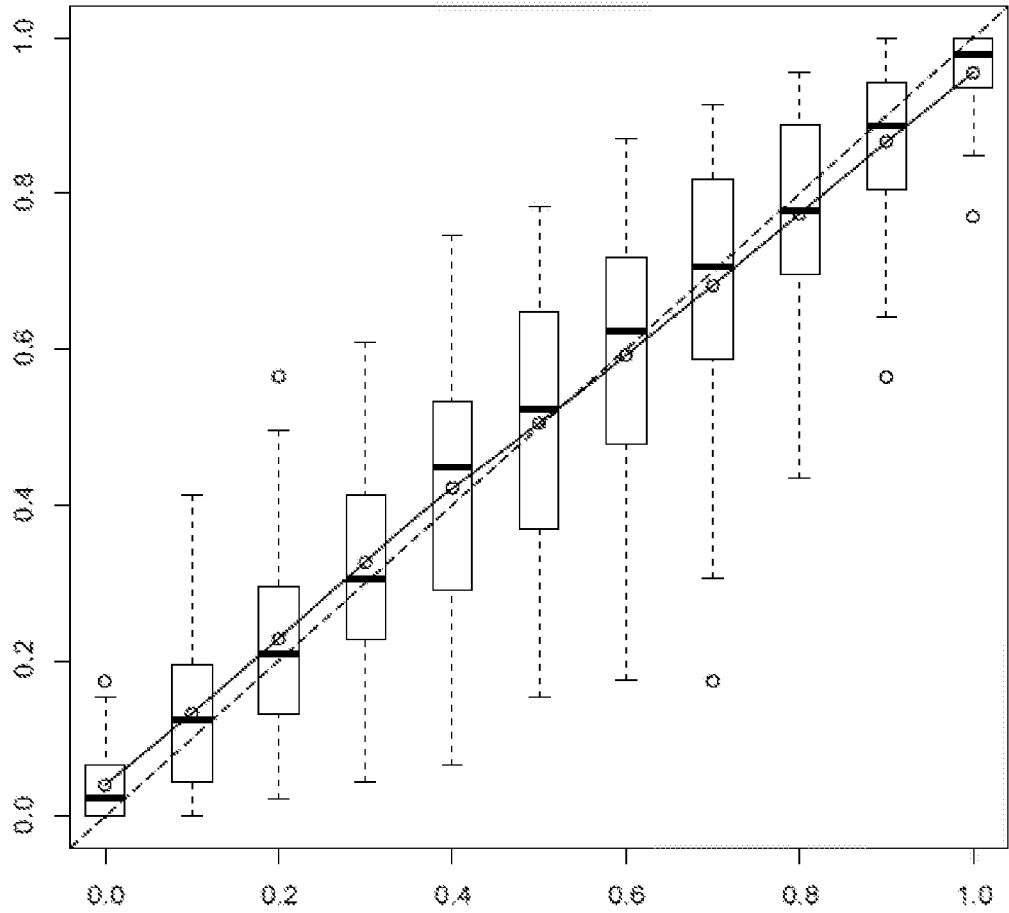


FIG. 6

Neutral Mass	Classifier Frequency				
1280.859291	50	930.4880521	30	1515.251442	22
1239.135649	49	2182.996603	30	2007.080071	22
1985.956097	49	1103.146186	29	3411.472434	22
2477.254682	49	1695.40379	29	2499.220722	22
1678.43676	49	2499.004523	29	1464.287383	22
828.0340546	49	588.3466599	28	727.8597579	22
3038.549902	48	651.3352566	28	1816.822377	22
1105.247979	47	1423.689546	28	1413.512843	22
1456.618686	46	2285.002747	28	1242.715861	21
1684.943282	44	1127.785206	28	344.2206758	21
1985.464468	44	1615.702692	28	3038.141022	21
1020.530256	43	957.5184233	27	1377.334925	21
707.13519	43	1700.844794	27	2033.559716	21
2912.732248	42	1125.64933	27	2571.994949	21
440.9806659	42	1522.808276	27	1219.605149	21
1337.835994	40	2093.351988	27	1582.001996	21
1476.761392	40	3217.768912	27	1309.599756	20
1146.561252	39	3535.95808	27	3000.593189	20
1818.760439	39	1656.897164	26	1473.696014	20
1531.353896	39	1387.255205	26	2697.454242	20
819.3393507	38	1042.455695	26	1066.477284	20
1628.704305	38	3812.577464	26	1989.985366	20
2946.47777	38	960.2116197	26	1261.703826	20
494.0646707	38	1817.159874	26	2948.432217	20
2524.19249	37	2178.965074	25	711.4583118	20
1679.261452	37	1200.527528	25	2636.679097	19
308.129724	37	2786.354169	25	1032.527911	19
422.2197066	35	2477.27019	24	893.4954426	19
3022.572148	34	1740.755479	24	1703.919962	19
3054.518133	33	2658.169206	24	2131.050072	19
1954.007725	32	984.2836764	24	1432.805134	19
2514.631558	32	1598.849716	24	1173.576204	19
1803.350451	31	718.8415383	24	705.4194027	19
1527.658305	31	2750.576737	23	1805.939025	19
1741.829691	31	2033.908003	23	1858.167945	19
1179.567226	31	3038.544735	23	728.3716681	18
2345.226012	30	1793.818251	23	493.2656827	18
2135.110474	30	761.4358638	23	771.6575623	18
1285.828757	30	386.182813	23	920.3557768	18
		1527.661981	23	1187.559054	18
		477.2390672	23	919.4614047	18
		2705.810237	22	2360.178399	18

FIG. 7

10 / 35

653.8098853	18
704.2321796	18
2506.17666	17
1593.789468	17
584.8024263	17
1594.936404	17
1786.905847	17
1816.825774	17
504.2580006	17
1280.769213	17
1815.795709	17
1925.26736	17
1402.646882	17
3014.194029	17
863.4861578	17
1271.199658	17
1623.975402	17
1595.849587	17
1163.592202	16
2793.251034	16
1613.890795	16
948.0663086	16
1792.847081	16
1195.612435	16
937.5333487	16
957.4246968	16
1474.674777	16
876.4693839	16
1764.027106	16
1471.564652	16
3385.620472	16
491.5615299	16
739.3925383	16
1178.697069	16
1598.7649	15
1476.958498	15
1110.547752	15
1694.841276	15
1303.640891	15
3605.670842	15
2967.573707	15
3089.114621	15
1278.524418	15
718.0305511	15

1489.688009	15
2419.924489	15
1195.63612	15
1955.951603	15
1666.807875	15
1826.487704	15
1188.630959	15
1671.775622	15
1498.803682	14
2400.077335	14
1195.603817	14
3821.960734	14
768.4683292	14
1826.897269	14
2924.447956	14
1772.772289	14
2454.999295	14
2768.043757	14
2315.16076	14
1960.018855	14
1735.714578	14
2092.909019	14
1439.725612	13
2715.328682	13
1098.637536	13
2739.342741	13
1108.545977	13
1318.379556	13
1196.599894	13
1894.928752	13
2783.03585	13
1206.543207	13
4132.787873	13
657.6284765	13
1160.538887	13
1047.080084	13
2735.321042	13
1368.685333	13
876.4488121	13
1347.705373	13
1812.384263	13
914.38315	13
654.4064948	13
1714.823278	12

934.4464616	12
2306.104719	12
816.3960753	12
1265.696286	12
2722.698224	12
2804.333903	12
2069.753131	12
3026.313863	12
1030.469647	12
823.4257554	12
1958.918846	12
1586.623048	12
821.4124091	12
584.3738522	12
1747.783535	12
1375.556966	12
2060.881933	12
797.9211875	12
2513.339943	12
3430.57265	12
911.6157399	12
2088.108877	11
2007.370937	11
1814.622166	11
1440.668445	11
2097.746504	11
323.1812761	11
2983.510241	11
1727.896543	11
1676.117941	11
2501.183652	11
1407.711204	11
2052.9864	11
2623.17241	11
1581.771638	11
1950.374257	11
1905.795577	11
2726.071081	11
2400.496006	11
1057.507955	11
1574.36094	11
3324.537295	11
2173.984642	11
1895.857411	11

FIG. 7 (Continued)

11 / 35

733.3253316	11
2150.07399	11
1667.970072	11
703.3636979	11
1990.982964	11
1179.693455	11
696.6799279	11
1118.461963	11
1747.734027	11
367.9914374	11
1682.821575	11
1060.539151	11
358.5316953	11
1080.429863	10
2831.291513	10
1607.95233	10
3437.665567	10
1224.918332	10
2137.224005	10
1553.802219	10
2251.022525	10
1916.343771	10
1170.633806	10
1368.225854	10
3734.59818	10
1536.730485	10
2052.342523	10
2856.521794	10
1368.563507	10
1473.691067	10
1653.44164	10
1258.295692	10
2121.131033	10
676.3574456	10
3183.496838	10
1455.583346	10
1280.755177	10
2088.113556	10
1312.910345	10
1004.571226	10
798.4157028	10
2057.364926	10
471.0146187	10
1953.956195	10

1751.874038	10
2220.101483	10
1602.685209	10
1241.620676	10
2020.73667	10
1966.928305	9
2159.206079	9
2244.081281	9
2309.114741	9
1806.971398	9
1372.658204	9
1482.678068	9
1319.271229	9
1817.162925	9
584.3540933	9
2006.908553	9
1521.851615	9
1559.341793	9
1194.476506	9
2124.512024	9
1184.830837	9
1636.206887	9
3209.098078	9
1764.867221	9
980.2696122	9
1047.507197	9
2194.944232	9
1402.657795	9
2020.995171	9
1607.799751	9
922.4371266	9
854.4266041	9
454.0304485	9
900.4553512	9
2249.985587	9
351.0089894	9
1554.790653	9
707.4043254	9
2601.11815	9
810.4639788	9
1939.94005	9
1474.401121	9
2834.430176	9
1328.628575	9

708.3710889	9
1658.764618	9
1271.187282	9
2185.457825	9
387.0141783	9
608.0503383	9
835.4977623	9
1084.544297	9
2245.067759	9
1707.747831	9
779.5412333	9
1552.656162	9
710.3428871	9
1706.048938	9
2266.064273	9
1423.68518	9
1682.834131	9
3910.86499	8
2775.829557	8
1820.876214	8
2195.919415	8
2222.147335	8
1060.554029	8
1534.673104	8
1136.497353	8
2307.571451	8
985.4844472	8
1013.870137	8
1550.109659	8
2253.166848	8
2424.683086	8
956.4093041	8
664.3678849	8
2429.102366	8
784.8656644	8
2092.905666	8
1202.59327	8
1227.997244	8
1602.804553	8
2450.256718	8
2077.956139	8
3045.126925	8
1431.737104	8
784.4779713	8

FIG. 7 (Continued)

12 / 35

1064.485131	8	812.3975109	7	1587.667066	7
1000.621993	8	1225.248412	7	324.1345984	7
1950.97234	8	1828.785329	7	1079.976033	7
498.1605339	8	1319.594317	7	1122.546573	7
864.4392203	8	2116.107252	7	1137.468423	7
2278.113732	8	1728.872456	7	1728.963084	7
930.5547303	8	1863.828871	7	760.4241916	7
906.3131218	8	1585.653154	7	1080.774434	7
1424.655793	8	1280.575613	7	1514.234311	7
1265.288057	8	2075.067729	7	2282.266671	7
1254.634092	8	3587.91521	7	1316.659239	7
648.3611414	8	306.1163962	7	1387.826928	7
2200.032681	8	1522.371234	7	2104.965173	7
2244.081059	8	960.4072128	7	1559.789808	7
2919.333904	8	763.4469317	7	414.2590501	7
1205.613525	8	2272.168208	7	613.3967363	7
2198.073183	8	1779.806365	7	1638.841843	7
1080.470377	8	980.4035868	7	867.5912787	7
2221.190757	8	2945.323519	7	1280.617782	7
762.4664058	8	1187.836917	7	621.2222873	7
1205.694353	8	1219.232042	7	1825.156071	7
1548.741637	8	1325.616869	7	784.4098098	7
2158.447532	8	1102.077981	7	1581.66774	7
468.1876847	8	829.4562194	7	1111.114842	7
2692.127921	8	922.412735	7	1804.931648	7
2020.94582	8	1558.665482	7	1240.568222	7
882.3832467	8	2328.169627	7	1412.394226	7
3248.638568	8	2813.325097	7	2721.28938	7
1522.698415	8	1882.807354	7	1196.611575	6
1970.433056	8	2252.077728	7	2572.273634	6
1319.584412	8	3049.454318	7	1465.898146	6
1789.845924	8	2246.090539	7	1678.861022	6
2153.178069	7	1952.04901	7	1390.235581	6
2714.202314	7	836.3889703	7	2831.136747	6
1271.521648	7	1464.767821	7	952.4466364	6
2978.6174	7	1067.486806	7	1686.793021	6
2388.188926	7	433.6838883	7	3188.576592	6
967.7284891	7	1464.945542	7	1522.705903	6
1289.924817	7	1253.710646	7	2793.562436	6
1124.609902	7	2251.05848	7	1062.629846	6
728.4159353	7	2736.404077	7	825.082693	6
2466.628146	7	2692.121934	7	2562.285431	6
2092.905349	7	1924.761793	7	1740.774143	6
1969.841542	7	4581.040704	7	1385.674398	6

FIG. 7 (Continued)

13 / 35

1298.182675	6	1058.563161	6	1278.306387	5
1552.715079	6	821.4386902	6	1197.61264	5
2760.072956	6	2443.00922	6	2116.208463	5
1483.661202	6	1459.275347	6	1696.701416	5
2404.191094	6	787.348936	6	3271.403035	5
1418.718477	6	1464.966906	6	1611.797286	5
1643.681184	6	1582.336667	6	1457.697677	5
511.0573767	6	1728.815336	6	598.3006898	5
1193.552359	6	597.3618075	6	1553.75725	5
802.4651672	6	409.0531778	6	1633.066531	5
1517.086169	6	558.0135703	6	3089.304879	5
2232.058561	6	1150.547456	6	1806.941122	5
882.8805922	6	649.813554	6	2166.948172	5
476.1447173	6	423.302692	6	2349.030802	5
1939.017361	6	508.0470685	6	1225.652059	5
1706.219211	6	1855.911299	6	2029.882351	5
1735.713361	6	1673.443167	6	1073.47078	5
1683.421891	6	1947.848898	5	2454.113875	5
821.4135719	6	1337.941266	5	2715.224983	5
1741.291892	6	3016.536555	5	1385.255327	5
1956.909617	6	2015.840267	5	1904.403068	5
1078.632339	6	2199.059313	5	812.4009802	5
2768.039218	6	2228.095052	5	1865.902954	5
1705.951729	6	498.2814125	5	1943.817228	5
953.9306905	6	2750.165495	5	1115.491588	5
408.2068081	6	1924.774485	5	586.3788332	5
1105.581567	6	482.2054014	5	1038.433681	5
2172.053747	6	1585.652818	5	1778.690006	5
348.1806168	6	2506.136724	5	2238.993623	5
2240.145035	6	1116.025473	5	898.4217621	5
1489.689479	6	1134.539807	5	562.369265	5
1571.526159	6	1392.64386	5	1458.941578	5
1482.820666	6	2059.093981	5	2136.035951	5
1636.776318	6	2479.148233	5	942.4591629	5
914.4373764	6	1157.61132	5	1806.943641	5
1271.52331	6	810.4701928	5	1458.526209	5
2150.080808	6	1043.283245	5	1984.216015	5
403.03199	6	2336.074025	5	849.4740621	5
1325.536346	6	895.4441149	5	1008.345191	5
1294.635295	6	1600.720266	5	1952.400077	5
550.2630003	6	3150.616201	5	3109.351257	5
1729.704265	6	475.2329518	5	1953.957878	5
1509.718758	6	2612.409811	5	2262.078784	5
1753.811503	6	3770.564522	5	1365.648371	5

FIG. 7 (Continued)

14 / 35

336.1055586	5
1432.841048	5
1606.115429	5
706.3862112	5
2309.0673	5
588.347913	5
1888.258293	5
597.257281	5
1371.623975	5
2059.866272	5
399.198574	5
1636.799974	5
1382.60319	5
2082.281689	5
1520.973646	5
837.4292788	5
1460.632733	5
1509.038743	5
2150.169986	5
2207.051728	5
1079.582353	5
882.4158446	5
1284.629852	5
1068.474677	5
1068.619217	5
1286.072442	5
3827.631272	5
1482.628713	5
1038.569473	5
976.5514941	5
1508.770682	5
1603.991597	5
2477.243186	5
3113.513773	5
1908.843836	5
1273.572888	5
509.1697042	5
1179.697725	5
1260.60432	5
875.9540154	5
785.4663035	5
955.6035675	5
3313.679157	5
1747.447671	5

722.4820901	5
1534.803775	5
2337.263856	5
895.5367915	5
1463.616556	4
1392.682122	4
1140.56337	4
1018.864142	4
1290.263212	4
1869.92372	4
1369.705109	4
1112.556136	4
707.4027247	4
3378.70373	4
979.1456566	4
802.8575909	4
2360.188004	4
3605.664088	4
3990.761139	4
1097.154075	4
1078.636943	4
1328.64222	4
1930.821661	4
1598.852704	4
1290.714688	4
1679.834832	4
1737.781929	4
1205.200738	4
1622.700913	4
1605.393545	4
1504.815825	4
1797.930087	4
1428.666497	4
1001.536294	4
1411.882737	4
442.2172439	4
1259.391298	4
2195.92968	4
2143.998639	4
1298.552723	4
590.247069	4
739.3886054	4
2919.479234	4
1360.618282	4

382.1510044	4
1772.920568	4
1392.696324	4
2088.220479	4
1577.924237	4
1522.035985	4
1156.513561	4
617.350504	4
871.6471187	4
2158.63072	4
2682.206655	4
2136.049487	4
427.3021592	4
3748.584278	4
984.2830268	4
1008.438389	4
944.5485886	4
1600.750062	4
1619.788604	4
2085.873535	4
3428.463039	4
1097.264849	4
2070.882507	4
462.3209129	4
2669.051931	4
1782.801802	4
1362.647391	4
733.4204086	4
1482.633228	4
1583.736038	4
1834.914942	4
1155.595396	4
2229.936248	4
2654.168525	4
1731.866029	4
1643.854285	4
2306.151953	4
2402.172348	4
1821.804237	4
1340.984543	4
1659.800026	4
1488.775812	4
1877.821619	4
1974.012972	4

FIG. 7 (Continued)

15 / 35

3139.383071	4	1593.705163	4	1204.571185	3
1474.675473	4	1142.787629	4	1671.732926	3
2992.481318	4	1953.999973	4	1558.771543	3
2349.079109	4	829.3705634	4	530.2769133	3
1712.75831	4	1176.623083	4	744.8456525	3
2158.024334	4	1714.41394	4	486.0057662	3
2971.391247	4	890.541987	4	1684.760451	3
1176.314031	4	1471.65187	4	2942.543754	3
1467.805878	4	317.0417319	4	1593.248626	3
2005.98819	4	312.1538262	4	2067.054012	3
1824.869186	4	626.334424	4	694.2740564	3
1280.57281	4	1509.954373	4	1443.393733	3
1349.652837	4	2549.38392	4	1618.670229	3
877.4726661	4	1918.414611	4	1233.853606	3
1266.630526	4	2418.574258	3	4058.214976	3
1790.850342	4	1677.713603	3	1774.01086	3
1125.918913	4	1887.94821	3	3361.718475	3
2350.078136	4	1137.59999	3	1482.699397	3
3248.517395	4	1940.057024	3	2274.236403	3
1308.613261	4	1054.547419	3	1928.937403	3
1802.873863	4	1655.678295	3	1156.541147	3
2488.212136	4	602.3338682	3	2315.01287	3
1508.373659	4	871.5136371	3	1177.497576	3
1420.701755	4	1044.003374	3	888.4498869	3
1946.763111	4	875.9571532	3	617.0585567	3
1766.762478	4	1570.667173	3	440.1539494	3
1495.275821	4	1261.705234	3	444.2398136	3
1271.690267	4	1617.814914	3	1165.544695	3
2099.129825	4	2181.191677	3	2160.06669	3
1492.717533	4	2951.531648	3	3363.480648	3
2254.912852	4	3183.504962	3	1872.940111	3
370.1858478	4	1098.492108	3	795.8580008	3
2033.914169	4	1369.743122	3	1516.637208	3
2072.467285	4	2729.296945	3	1188.175448	3
563.257074	4	1796.832914	3	1629.763759	3
1400.670896	4	3470.721763	3	1846.910751	3
1217.557764	4	1097.680902	3	2163.17881	3
723.3466866	4	1179.610068	3	903.5465302	3
1703.76068	4	2556.19933	3	1954.437292	3
3494.4887	4	2126.025425	3	1273.633235	3
1418.667349	4	1044.136622	3	3381.416499	3
1542.811358	4	1745.844374	3	3718.737385	3
3194.260872	4	1096.5528	3	2082.931277	3
1564.768646	4	2675.156445	3	1257.867522	3

FIG. 7 (Continued)

16 / 35

1378.587172	3
2311.545148	3
3069.411004	3
805.8934017	3
2185.480584	3
1233.603324	3
2598.01642	3
717.8581098	3
1358.677603	3
1531.791439	3
1789.228382	3
1003.531248	3
2667.206219	3
4848.363443	3
2259.228315	3
600.2783787	3
1382.654292	3
2598.190466	3
2706.176516	3
1123.602954	3
906.3368054	3
2092.811796	3
406.0304723	3
2460.021453	3
3177.44115	3
1157.681776	3
2813.341777	3
904.4490305	3
3350.513506	3
3570.607889	3
990.3076074	3
1374.24927	3
403.2062371	3
493.7622045	3
2369.060931	3

1040.671037	3
1683.220528	3
2523.347622	3
2329.878791	3
2251.937416	3
567.9934426	3
2957.378373	3
2707.256826	3
568.6011113	3
2827.232752	3
1729.48511	3
2675.817991	3
1331.356918	3
2948.441045	3
1412.539611	3
3270.50955	3
1200.508199	3
1676.912138	3
535.3415708	3
2856.526452	3
1402.68831	3
1083.529348	3
1232.624375	3
849.4682922	3
1090.216953	3
1098.175282	3
1955.945428	3
1732.825795	3
2599.727559	3
773.4321059	3
1262.903496	3
1720.76919	3
1665.424322	3
1528.655314	3
2272.53957	3

542.7340532	3
2407.945379	3
1696.647798	3
762.463039	3
1509.27719	3
425.9930884	3
1335.060653	3
1316.668112	3
2988.524358	3
1091.578089	3
966.6273457	3
1644.426577	3
1657.488012	3
1409.213525	3
1542.680219	3
2036.938778	3
1177.470252	3
554.3445036	3
1813.300887	3
1311.90907	3
1078.57678	3
1713.38049	3
2971.424773	3
2464.535358	3
1768.799889	3
932.4388026	3
855.511109	3
1709.033507	3
665.427559	3

FIG. 7 (Continued)

17 / 35

Frequency Rank	Mean neutral mass	Standard Deviation neutral mass
1	2514.631	0.01
2	1628.705	0.033
3	1200.5275	0.0095
4	1985.956	0.0093
5	1741.8297	0.0049
6	1239.135	0.028
7	1368.683	0.012
8	1020.5302	0.0053
9	2831.291	0.015
10	1558.665	0.012
11	1146.5611	0.0076
12	1531.3539	0.0073
13	3313.679	0.023
14	1594.9364	0.0078
15	2477.254	0.065
16	2706.173	0.055
17	2786.354	0.022
18	3535.957	0.026
19	2285.002	0.023
20	2501.176	0.013
21	2060.881	0.016
22	1679.2614	0.0089
23	1439.725	0.012
24	1509.7188	0.0093
25	2813.325	0.013

26	2606.289	0.02
27	788.3559	0.0053
28	1527.661	0.016
29	1527.658	0.013
30	2282.266	0.013
31	1280.6178	0.0087
32	1124.6099	0.0048
33	3821.96	0.017
34	2499.0045	0.0093
35	1598.8497	0.0098
36	2131.05	0.014
37	2033.908	0.03
38	1607.799	0.021
39	2534.132	0.042
40	1205.6948	0.0066
41	1833.376	0.012
42	2983.51	0.015
43	2146.859	0.01
44	2149.04	0.013
45	3014.194	0.03
46	2521.183	0.01
47	2178.9649	0.0099
48	4064.252	0.055
49	1686.793	0.0098
50	1280.7548	0.0071
51	2443.009	0.044
52	2211.06	0.03
53	1195.6124	0.0085

FIG. 8

18 / 35

54	711.4583	0.0046
55	2272.168	0.01
56	1372.6582	0.0076
57	1500.717	0.014
58	2072.467	0.017
59	2059.094	0.048
60	1233.6033	0.005
61	1713.839	0.011
62	1219.6051	0.0064
63	2400.077	0.01
64	1595.849	0.017
65	1924.761	0.032
66	1392.682	0.01
67	1611.822	0.018
68	1402.6469	0.0061
69	2006.7983	0.009
70	1731.866	0.0096
71	1407.711	0.012
72	1985.464	0.01
73	1569.7434	0.0082
74	2159.205	0.019
75	2988.524	0.012
76	1989.985	0.015
77	2092.9057	0.007
78	1474.6748	0.0059
79	2193.11	0.01
80	2137.223	0.015
81	3748.584	0.01
82	1552.714	0.011
83	2116.107	0.01

84	3038.549	0.011
85	2359.135	0.032
86	1935.866	0.012
87	4132.788	0.013
88	1294.6353	0.0089
89	3055.456	0.022
90	2323.092	0.011
91	2156.087	0.022
92	1482.6287	0.0096
93	2841.328	0.013
94	947.4632	0.0047
95	2179.975	0.012
96	2088.108	0.014
97	2339.142	0.013
98	1365.648	0.012
99	1408.616	0.023
100	2245.067	0.012
101	2302.07	0.025
102	3183.496	0.02
103	2088.113	0.016
104	1956.909	0.035
105	1593.789	0.02
106	2318.131	0.023
107	1666.808	0.01
108	2721.292	0.026
109	2057.364	0.012
110	2546.197	0.02
111	3437.665	0.048
112	1684.943	0.016
113	1644.807	0.034

FIG. 8 (Continued)

114	3430.572	0.026
115	1598.7648	0.009
116	2624.749	0.016
117	1043.6006	0.0094
118	2735.32	0.02
119	2157.039	0.021
120	3126.56	0.025
121	1123.603	0.0045
122	2975.432	0.016
123	2164.0213	0.0072
124	1902.875	0.011
125	1411.6631	0.007
126	1428.6665	0.0088
127	1194.4768	0.0095
128	1483.661	0.016
129	972.504	0.014
130	802.465	0.01
131	1413.5127	0.0085
132	3139.383	0.015
133	1964.85	0.01
134	3035.284	0.017
135	2513.339	0.011
136	1686.816	0.0065
137	957.4247	0.006
138	2246.0905	0.0096
139	3115.433	0.016
140	1534.5889	0.0064
141	2971.426	0.045
142	1067.486	0.017
143	2938.371	0.015

144	1173.576	0.022
145	1526.7146	0.0099
146	2479.148	0.023
147	2844.508	0.016
148	1559.7897	0.0062
149	1432.8051	0.0087
150	1805.9391	0.0056
151	1875.0415	0.0084
152	1488.7758	0.0073
153	1179.693	0.01
154	1833.8703	0.0097
155	1110.5477	0.008
156	1794.4397	0.0079
157	2079.043	0.013
158	876.4686	0.0067
159	1844.8443	0.009
160	2563.5673	0.0081
161	3113.513	0.015
162	1410.769	0.011
163	2585.187	0.017
164	1290.7147	0.0085
165	2245.0142	0.0094
166	1778.801	0.018
167	2992.481	0.061
168	1553.755	0.014
169	1178.698	0.014
170	1554.79	0.012
171	2417.611	0.035
172	2027.916	0.011
173	1253.7095	0.0075

FIG. 8 (Continued)

20 / 35

174	1587.6671	0.007
175	2198.13	0.013
176	1140.5988	0.0071
177	2849.298	0.019
178	1242.6024	0.0073
179	3217.768	0.019
180	1392.643	0.015
181	1489.688	0.01
182	1464.767	0.036
183	4990.334	0.018
184	2549.203	0.01
185	1108.5459	0.0047
186	1575.7613	0.0064
187	1105.581	0.013
188	2651.119	0.017
189	1832.027	0.013
190	3031.42	0.014

191	1947.848	0.023
192	1482.633	0.011
193	1496.745	0.01
194	1436.1266	0.0093
195	3439.628	0.015
196	1612.2466	0.006
197	1727.8966	0.0062
198	2315.157	0.016
199	1728.815	0.012
200	1628.847	0.011
201	3605.67	0.013
202	1187.6058	0.0067
203	3004.502	0.025
204	2001.5719	0.0091
205	3072.301	0.011
206	1384.6283	0.0075

FIG. 8 (Continued)

21 / 35

Gene Name	Protein
IFT74	Intraflagellar transport protein 74 homolog
YWHAZ	14-3-3 protein zeta/delta
RPSA	40S ribosomal protein SA
HSPD1	60 kDa heat shock protein, mitochondrial
ACTB	Actin, cytoplasmic 1
ACTG2	Actin, gamma-enteric smooth muscle
C3a-desArg	acylation stimulating protein
APC	Adenomatous polyposis coli protein
AHCY	Adenosylhomocysteinase
SLC25A5	ADP/ATP translocase 2
ALDH1B1	Aldehyde dehydrogenase X, mitochondrial
AKR1B1	Aldose reductase
ORM1	Alph-1-acid glycoprotein 1
SERPINA1	Alpha-1-antitrypsin
AMY2B	Alpha-amylase 2B
ENO1	Alpha-enolase
FUCA1	Alpha-L-fucosidase
SERPINA1	alpha1-antitrypsin
AGT	Angiotensinogen
ANXA1	Annexin A1
ANXA3	Annexin A3
ANXA4	Annexin A4
ANXA5	Annexin A5
APOA1	Apolipoprotein A-I
APOC1	Apolipoprotein C1
DARS	Aspartyl-tRNA synthetase, cytoplasmic
ATP5B	ATP synthase subunit beta, mitochondrial
BCNP1	B-cell novel protein 1
BANK1	B-cell scaffold protein with ankyrin repeats
CTTNB1	Beta catenin
APOH	Beta-2-glycoprotein 1
BSP	Bone sialoprotein
CRP	C reactive protein
CA195	C-C chemokine receptor type 5
CLEC4D	C-type lectin domain family 4, member D
CNN1	Calponin-1
CALR	Calreticulin
CA 19-9	Carbohydrate antigen 19-9
CA1	Carbonic anhydrase 1

FIG. 9

CA2	Carbonic anhydrase 2
CEA	Carcinoembryonic Antigen
CTSD	Cathepsin D
CTSS	Cathepsin S
CTSZ	Cathepsin Z
MS4A1	CD20
CD63	CD63 antigen (melanoma 1 antigen)
CHI3L1	chitinase 3-like 1 (cartilage glycoprotein-39)
CGB	Chorionic gonadotropin, beta
CLU	Clusterin
CRMP2	Collapsin response mediator protein-2
CCSA-2	colon cancer specific antigen 2
CCSA-3	colon cancer specific antigen 3
CCSA-4	colon cancer specific antigen 4
MIC 1	Colon cancer-associated protein Mic1
CSF1	Colony stimulating factor 1 (macrophage)
C3A	Complement component c3a
C9	Complement component 9
C3	Complement component C3
CORO1C	Coronin-1C
CKB	Creatine kinase B-type
CDA	Cytidine deaminase
CYFRA 21-1	Cytokeratin 19 fragment
DYNC1H1	Cytoplasmic dynein 1 heavy chain 1
ECH1	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial
DES	Desmin
CRMP-2	Dihydropyrimidinase-related protein 2
EEF2	Elongation factor 2
HSP90B1	Endoplasmic
EIF4A3	Eukaryotic initiation factor 4A-III
EZR	Ezrin
FERR	Ferritin
FTL	Ferritin light chain
FGB	Fibrinogen beta chain [cleaved into: fibrinopeptide B]
FGG A	Fibrinogen gamma chain
Seprase	Fibroblast activation protein alpha
FLNA	Filamin-A
FHL1	Four and a half LIM domains protein 1
MGC20553	FRMD3
ALDOA	Fructose-bisphosphate aldolase A
GABRA1	Gamma-aminobutyric acid (GABA) A receptor, alpha 1

FIG. 9 (Continued)

GSN	Gelsolin
GSTP1	Glutathione S-transferase P
GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
GARS	Glycyl-tRNA synthetase
GDF15	Growth differentiation factor 15
HP	Haptoglobin [cleaved into: haptoglobin alpha chain; haptoglobin beta chain]
HSP60	Heat shock protein 60 kDa
TRAP1	Heat shock protein 75 kDa, mitochondrial
HSPB1	Heat shock protein beta-1
HGF	Hepatocyte growth factor
HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1
HNRNPF	Heterogeneous nuclear ribonucleoprotein F
SYNCRIP	Heterogeneous nuclear ribonucleoprotein Q
HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1
HMGB1	High mobility group protein B1
HLA_A	HLA class 1 Histocompatibility Antigen , A 68 alpha chain
HSP90AB1	HSP90AB1 protein
HNP 1	Human neutrophil defensin 1
HNP 3	Human neutrophil defensin 3
HABP2	Hyaluronan-binding protein 2
PPA1	Inorganic pyrophosphatase
IGF-1	Insulin-like growth factor 1
IL2RB	Interleukin 2 receptor, beta
IL-8	Interleukin 8
IL-9	Interleukin 9
CYFRA 21-1	Keratin, type I cytoskeletal 19
KRT8	Keratin, type II cytoskeletal 8
LMNB1	Lamin B1
LAMA2	Laminin, alpha 2
LGALS3	lectin, galactoside-binding, soluble, 3
SERPINB1	Leukocyte elastase inhibitor
M-CSF	Macrophage colony-stimulating factor 1
MIF	Macrophage migration inhibitory factor
CAPG	Macrophage-capping protein
MMP7	Matrix metalloproteinase-7
MMP9	Matrix metalloproteinase-9
TIMP 1	metalloproteinase inhibitor 1
MAPRE1	Microtubule-associated protein RP/EB family member 1
MCM4	minichromosome maintenance complex component 4
MYL6	Myosin light polypeptide 6

FIG. 9 (Continued)

MYL9	Myosin regulatory light polypeptide 9
NNMT	Nicotinamide N-methyltransferase
NME1	Nucleoside diphosphate kinase A
OPN	Osteopontin
TATI	Pancreatic secretory trypsin inhibitor
PRDX1	Peroxiredoxin-1
PTEN	Phosphatase and tensin homolog
PEBP1	Phosphatidylethanolamine-binding protein 1
PITPNA	Phosphatidylinositol transfer protein alpha isoform
PCK2	Phosphoenolpyruvate carboxykinase [GTP], mitochondrial
PLAU	Plasminogen activator, urokinase
Prolactin	Prolactin
PRRG4	Proline rich Gla 4
PSME3	Proteasome activator complex subunit 3
PDIA3	Protein disulfide-isomerase A3
PDIA6	Protein disulfide-isomerase A6
PKD	Protein Kinase D
PTK2B	Protein tyrosine kinase 2 beta
SRC	Proto-oncogene tyrosine-protein kinase Src
DKFZp686M08189	Putative uncharacterized protein DKFZp686M08189
PDXK	Pyridoxal kinase
PKM2	Pyruvate kinase isozymes M1/M2
M2-PK	Pyruvate kinase isozymes M1/M2
RhoA	Ras homolog family member A
RhoB	Ras homolog family member B
RhoC	Ras homolog family member C
REG4	Regenerating islet-derived protein 4
ALDH1A1	Retinal dehydrogenase 1
RHGDIA	Rho GDP-dissociation inhibitor 1
RRBP1	Ribosome-binding protein 1
S100A11	S100 A11 Calcium binding protein
S100A12	S100 A12 Calcium binding protein
S100A8	S100 A8 Calcium binding protein
S100A9	S100 A9 Calcium binding protein
SCGN	Secretagogin
SELPLG	Selectin P ligand
SELENBP1	Selenium-binding protein 1
SEPT9	septin 9
SERPINA3	Serine peptidase inhibitor, clade A, member 3
LKB1/STK11	Serine/threonine kinase 11
TF	Serotransferrin/Transferrin

FIG. 9 (Continued)

SERPINB6	Serpin B6
ALB	Serum albumin
SAA	Serum amyloid A
SAA2	Serum amyloid A2
sCD26	Serum-soluble CD26/Dipeptidyl Peptidase IV
SCF	Skp, Cullin, F-box containing complex (multi-protein complex)
CD24	Small cell lung carcinoma cluster 4 antigen
SF3B3	Splicing factor 3B subunit 3
Spondin-2	Spondin-2
HSPA9	Stress-70 protein, mitochondrial
SDHA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial
TAL1	T-cell acute lymphocytic leukemia protein 1
TST	Thiosulfate sulfurtransferase
THBS1	Thrombospondin-1
TKT	Transketolase
TPT1	Translationally-controlled tumor protein
TPM2	Tropomyosin beta chain
TUBB1	Tubulin beta-1 chain
Trail-R2	tumor necrosis factor receptor superfamily, member 10b
DcR3	tumor necrosis factor receptor superfamily, member 6b, decoy
TNFAIP6	Tumor necrosis factor, alpha-induced protein 6
TP53	tumor protein 53
UGDH	UDP-glucose 6-dehydrogenase
UGP2	UTP-glucose-1-phosphate uridylyltransferase
KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
VNN1	Vanin 1
VEGF	Vascular endothelial growth factor
VIL1	Villin-1
VIM	Vimentin
RAC	

FIG. 9 (Continued)

26 / 35

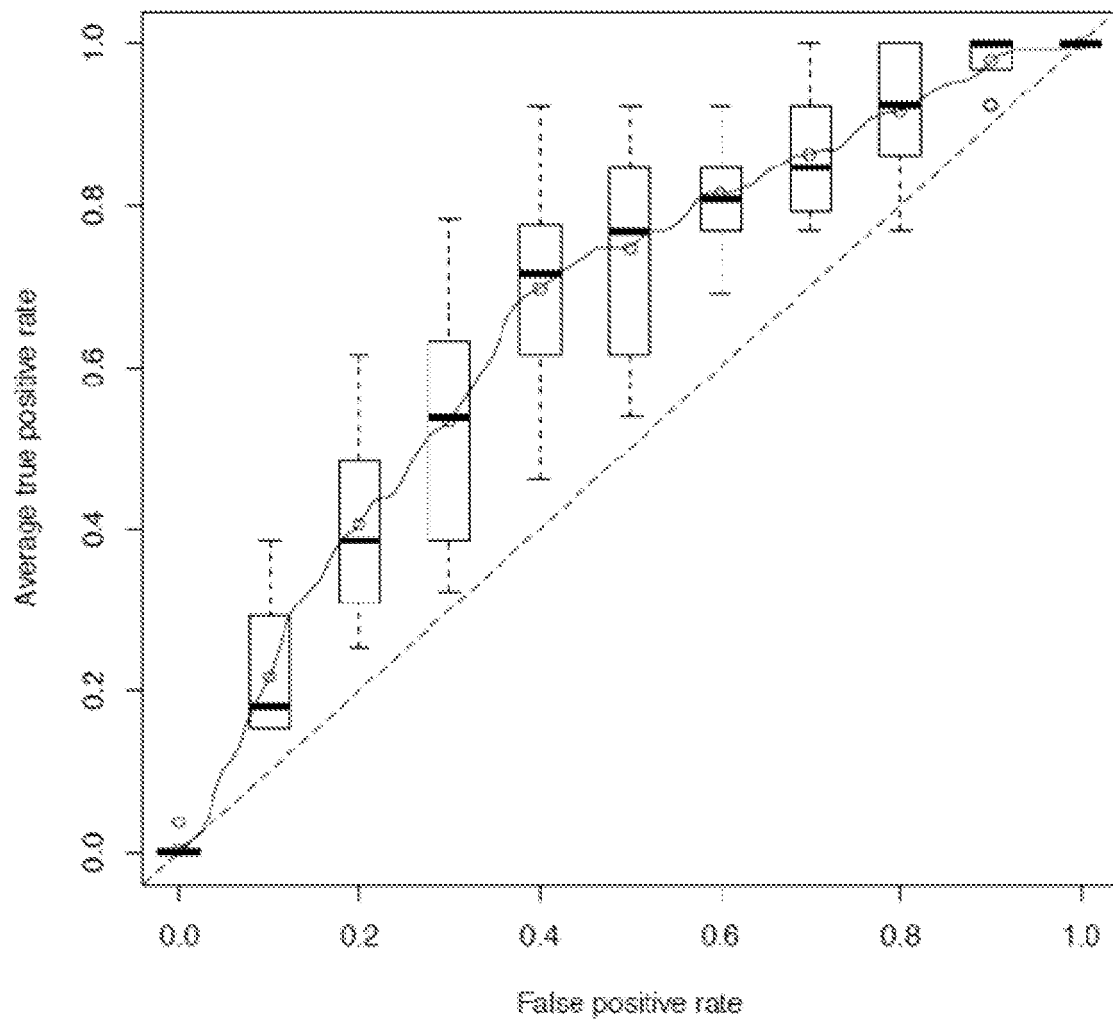


FIG. 10

27 / 35

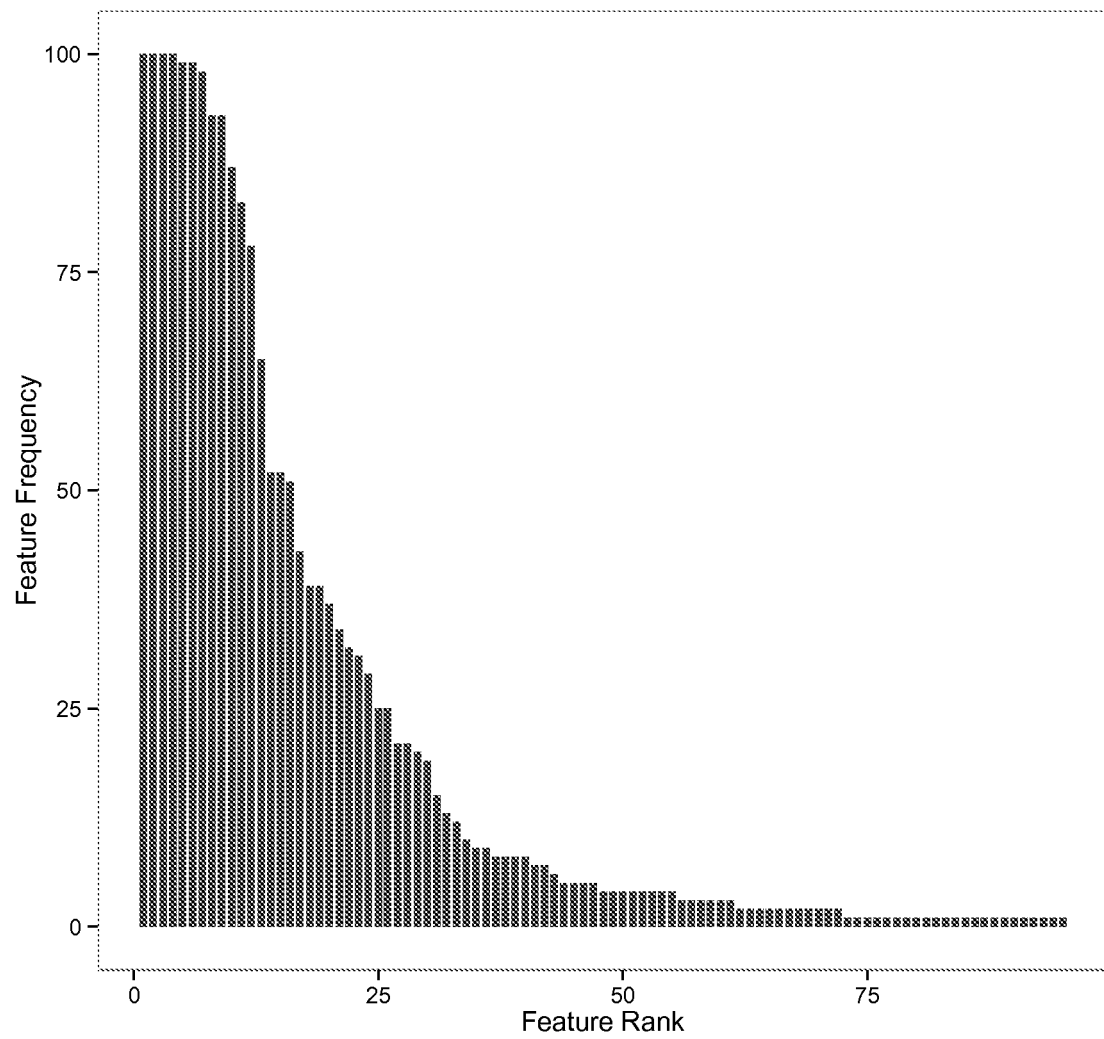


FIG. 11

28 / 35

Transition Ion	UNIPRO Protein ID	Frequency Ranking
IAELLSPGSVDPLTR_b5	SPB6_HUMAN	1
KPAEDEWGGK_y8	FRIL_HUMAN	2
VEYLDDR_y6	P53_HUMAN	3
WVAVVVPSGQEQR_y7	1A68_HUMAN	4
DATNVGDEGGFAPNILENK_b5	ENOA_HUMAN	5
KPAEDEWGGK_y3	FRIL_HUMAN	6
AVELAANTK_y5	TKT_HUMAN	7
FLSDASVTAGGFQIK_y6	TSG6_HUMAN	8
SLEAQADK_y6	TPM2_HUMAN	9
IYKSDGIK_b2	ADT2_HUMAN	10
QVIGTGSFFPK_y8	FHL1_HUMAN	11
YLAVVHAVFALKAR_y8	CCR5_HUMAN	12
INGIPQQHTQVLFIK_b3	CEAM5_HUMAN	13
HSLVSFVVR_y7	SPON2_HUMAN	14
WVAVVVPSGQEQR_b3	1A68_HUMAN	15
EWEFQK_b3	RBX1_HUMAN	16
VGIVAWHPTAR_y6	COR1C_HUMAN	17
FADLSEAANR_b3	VIME_HUMAN	18
ITSEAEDLVANFFPK_y7	PSME3_HUMAN	19
FEIELPAAPK_y8	MIC1_HUMAN	20
LFENIGK_y5	STK11_HUMAN	21
DPLNPIKQDVK_y7	IPYR_HUMAN	22
EPLGPALAEHLR_y8	SBP1_HUMAN	23
LYTLVLTPDAPSR_y8	PEBP1_HUMAN	24
QPGITFIAAK_y5	CATD_HUMAN	25
TEGDGVYTLNNEK_b3	HPT_HUMAN	26
VLTEIIASR_y6	ANXA5_HUMAN	27

FIG. 12

29 / 35

ALQASALK_y3	ALDOA_HUMAN	28
NSHIAIAFDDTK_b3	LAMA2_HUMAN	29
VGDYGSLSGR_y6	CATZ_HUMAN	30
GYSFTTTAER_b3	ACTB_HUMAN	31
GKITDLIK_y3	AACT_HUMAN	32
EIFVDEDK_y4	TMG4_HUMAN	33
DGAGDVAFVK_y8	TRFE_HUMAN	34
VLSIQSHVIR_y7	PDXK_HUMAN	35
LRISPDR_b3	MIF_HUMAN	36
ISRAALPEGLPEASR_b6	GDF15_HUMAN	37
EHSSLAFWK_y7	APOH_HUMAN	38
SERPVLVR_b3	APC_HUMAN	39
KIEEQLTLEK_y8	ILEU_HUMAN	40
LIQQTFR_y6	FAK1_HUMAN	41
QAVTNPNNTFYATK_b3	GRP75_HUMAN	42
TVDAAASR_y6	VEGFA_HUMAN	43
DFDFVPPVVR_y5	CO3_HUMAN	44
GYSIFSYATK_y8	CRP_HUMAN	45
GADVWFK_b3	S10A8_HUMAN	46
TGIIDYGIR_y6	TSG6_HUMAN	47
NALLSLAK_y5	ANXA1_HUMAN	48
ADEGISFR_y3	PRDX1_HUMAN	49
AFVFDK_y3	HGF_HUMAN	50
EGNPEEDLTADK_y9	CAPG_HUMAN	51
LRDLLTR_b3	ECH1_HUMAN	52
YFLHQSHEER_y7	FRIH_HUMAN	53
FTAFYASR_y3	CUL1_HUMAN	54
LSKNEILR_y5	TAL1_HUMAN	55
AVSEGYK_y5	CDD_HUMAN	56
QVTNAVLK_y6	CUL1_HUMAN	57

FIG. 12

30 / 35

LGANSLDLVVFGR_y8	DHSA_HUMAN	58
LAADVKGAGAER_y5	ADT2_HUMAN	59
NVDGVNYASITR_y9	CATZ_HUMAN	60
LLNLLADLVER_y6	AL1B1_HUMAN	61
GHFDTLSK_y5	S10AC_HUMAN	62
SPPGQVTEAVK_y8	ALDR_HUMAN	63
DLILNPR_y4	SF3B3_HUMAN	64
LGVYEVEDQITAVR_y10	SEPR_HUMAN	65
KAFVFPK_y5	CRP_HUMAN	66
FGSYAYTR_y3	GBRA1_HUMAN	67
QIDNPDYK_y4	CALR_HUMAN	68
TLIGHVPDQR_y5	PCKGM_HUMAN	69
PSISSNNSNPK_y6	CEAM3_HUMAN	70
DPGVLDLDR_y5	S10AB_HUMAN	71
LGANSLDLVVFGR_y5	DHSA_HUMAN	72
LFQVQGTGANNTK_b3	VILI_HUMAN	73
TLAILAAILLVALQAQAEPLQAR_y8	DEF1_HUMAN	74
EAFQLFDR_b4	MYL6_HUMAN	75
LEGLTDEINFLR_y7	K2C8_HUMAN	76
PEYDEAGPSIVHR_y9	ACTH_HUMAN	77
ALQASALK_y6	ALDOA_HUMAN	78
YHTINGHNAEVR_b3	ROA2_HUMAN	79
SFEDIHHYR_y6	RASK_HUMAN	80
FEIELPAAPK_y6	MIC1_HUMAN	81
ISELTTEVVK_y6	IFT74_HUMAN	82
FGSYAYTR_y5	GBRA1_HUMAN	83
FIDPLAK_y4	MCM4_HUMAN	84
DITSDTSGDFR_b3	ANXA1_HUMAN	85
IEDSEENGVEFK_y7	SIAL_HUMAN	86
LQAILGVPWK_b3	ANGT_HUMAN	87

FIG. 12

31 / 35

AAGDSNLK_y7	AL1B1_HUMAN	88
LRDLLTR_y5	ECH1_HUMAN	89
LTTESTPFNVAEGK_b5	CEAM6_HUMAN	90
VTIDSSYDIK_y9	CH3L1_HUMAN	91
SGYLLPDTK_b3	ENPL_HUMAN	92
GGRALFQDIK_b3	FRIL_HUMAN	93
NQYVSNGLR_b3	SPON2_HUMAN	94
VVDLLAPYAK_y7	ATPB_HUMAN	95

FIG. 12

32 / 35

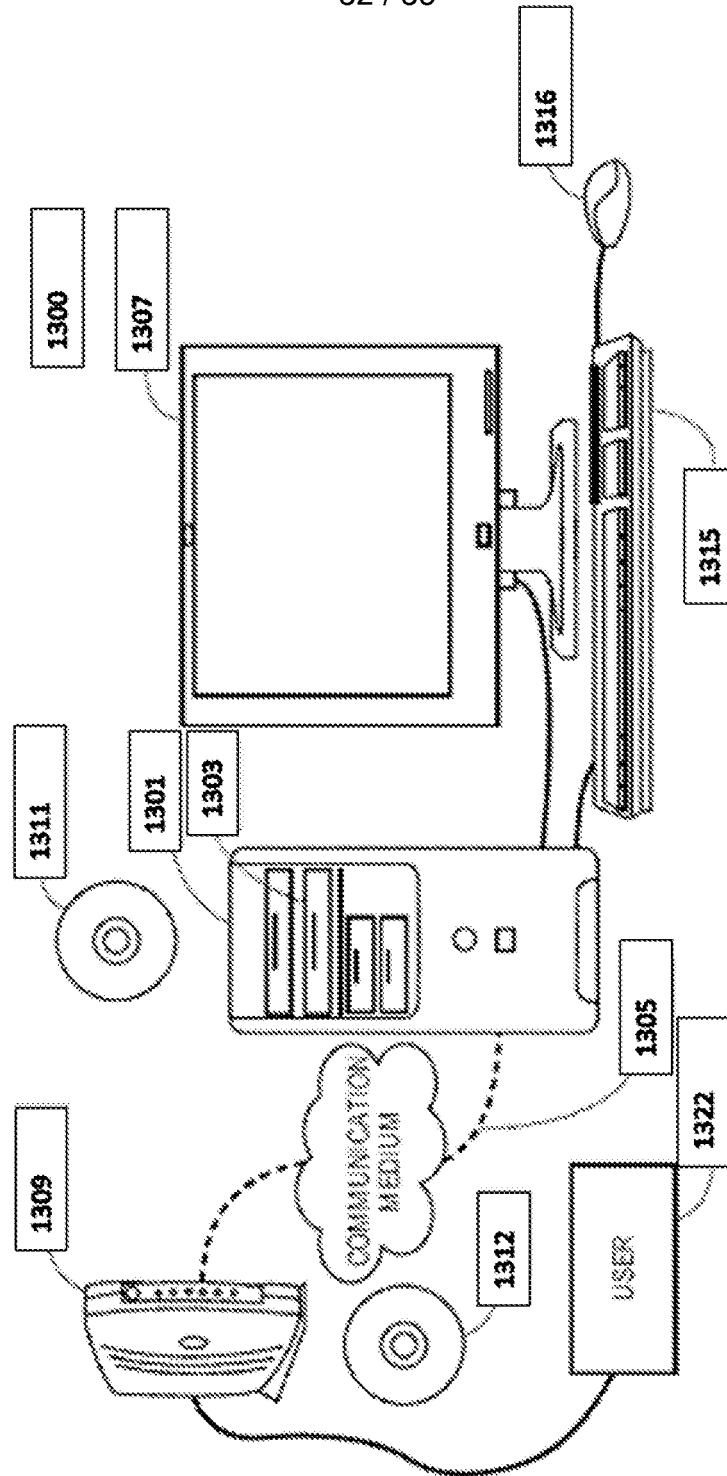


FIG. 13

33 / 35

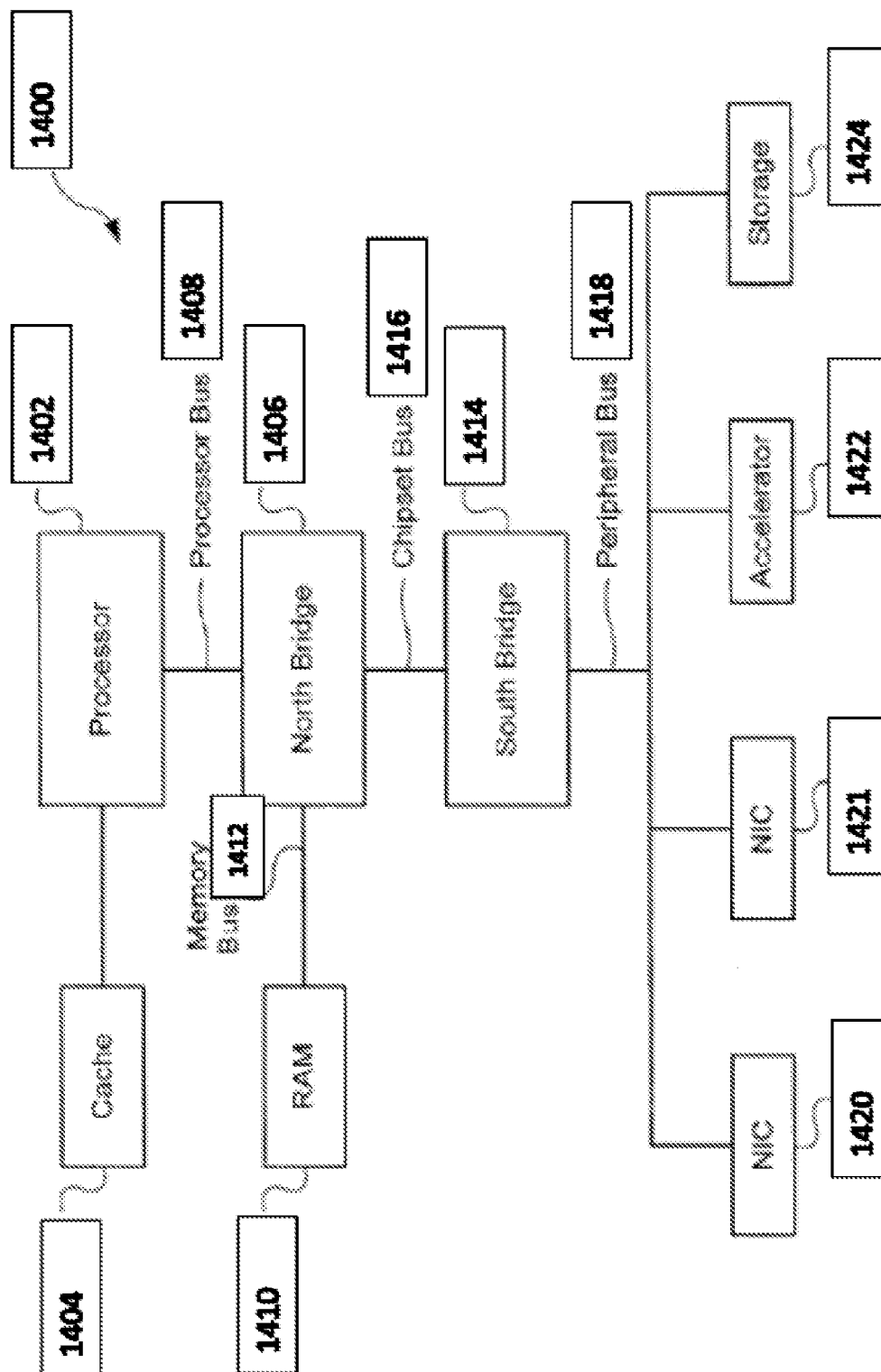


FIG. 14

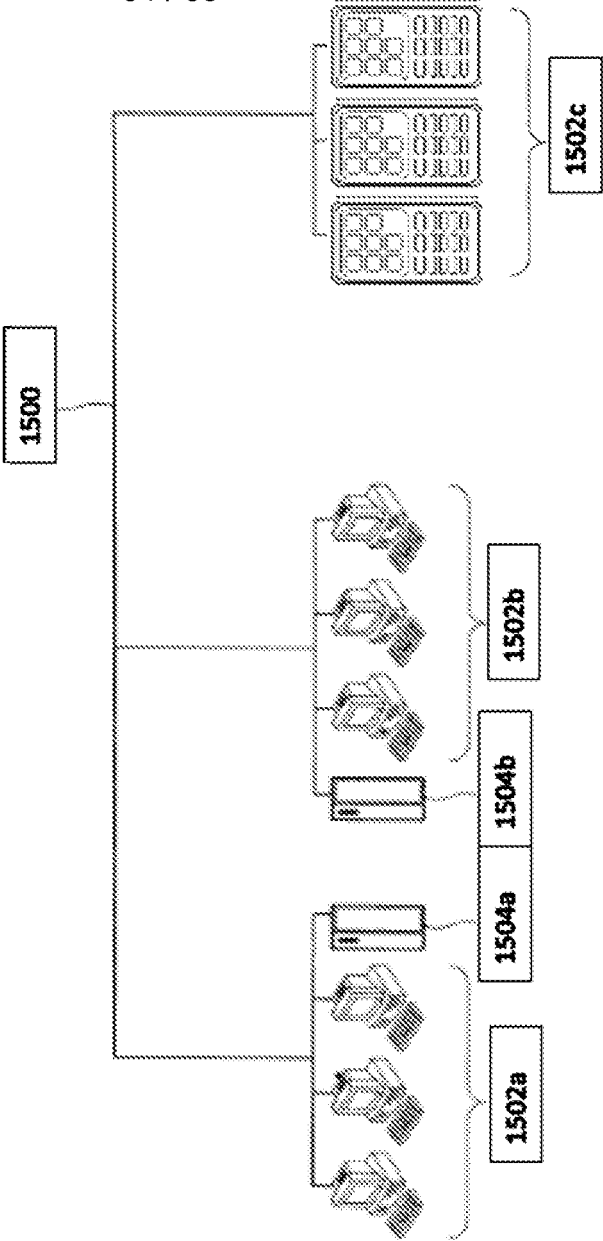


FIG. 15

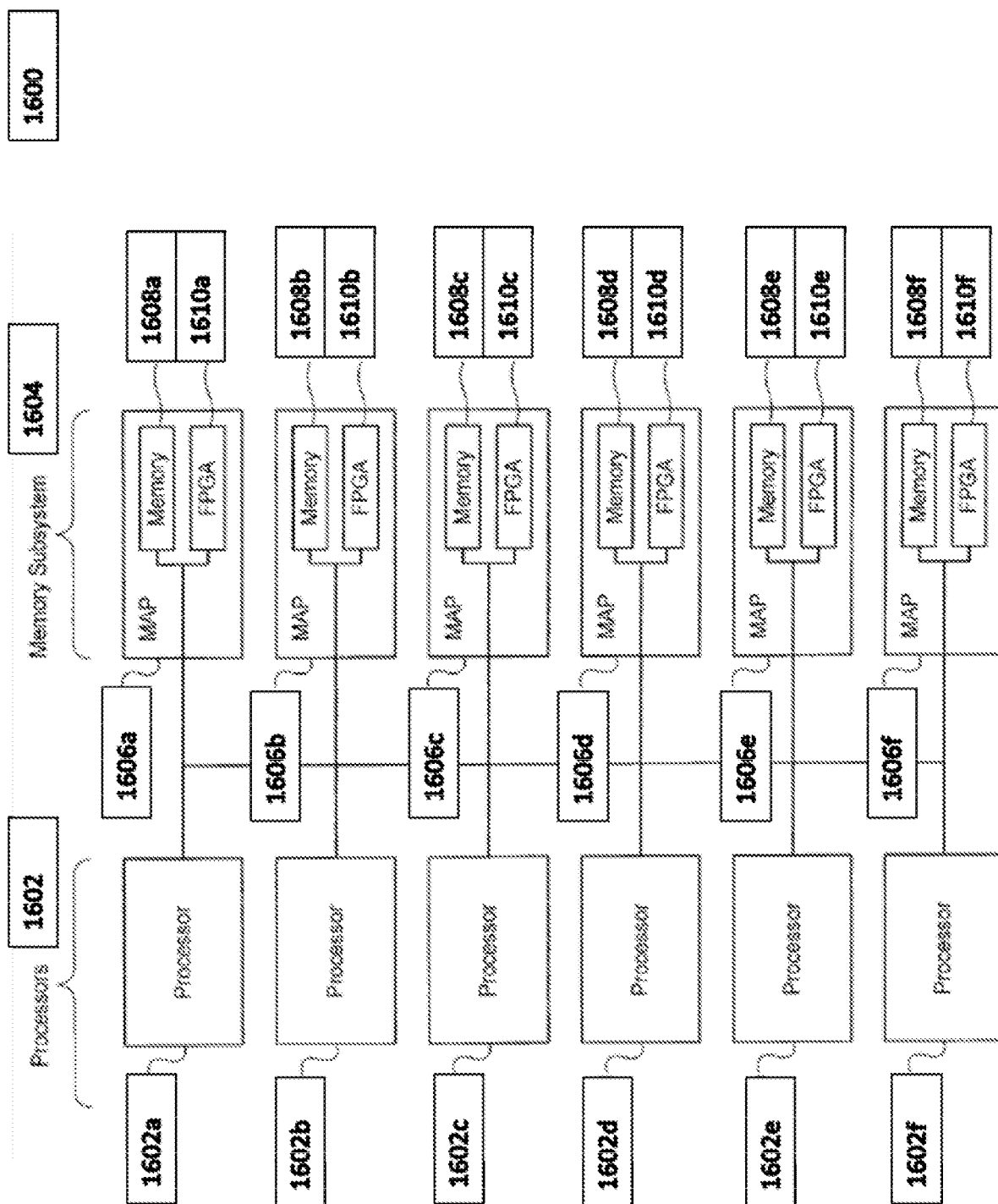


FIG. 16