

Table 1: Experiment Data

adverse-event-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	<u>480.00</u>	742.00	1145.00	4743.00	4747.00	4872.00	526.00
2	482.00	748.00	1164.00	4781.00	1207.00	1364.00	<u>469.00</u>
3	<u>480.00</u>	735.00	1055.00	3982.00	799.00	789.00	535.00
4	<u>486.00</u>	744.00	1097.00	4782.00	1208.00	1366.00	531.00
5	480.00	745.00	1139.00	4613.00	2491.00	2526.00	<u>471.00</u>
6	1923.00	3160.00	1407.00	4425.00	5716.00	5731.00	<u>383.00</u>
7	<u>495.00</u>	728.00	1097.00	4510.00	798.00	566.00	530.00
8	479.00	751.00	1095.00	4629.00	799.00	<u>339.00</u>	593.00
9	<u>486.00</u>	765.00	1067.00	4598.00	5221.00	5341.00	592.00
10	<u>479.00</u>	757.00	1095.00	4534.00	803.00	570.00	543.00
11	<u>481.00</u>	743.00	1090.00	4627.00	3588.00	3736.00	521.00
12	481.00	755.00	1134.00	4625.00	1215.00	1361.00	<u>476.00</u>
13	<u>480.00</u>	743.00	1043.00	4598.00	802.00	565.00	530.00
14	<u>477.00</u>	766.00	1047.00	4757.00	1215.00	1366.00	530.00
15	968.00	1855.00	1615.00	3693.00	5888.00	6105.00	<u>393.00</u>
16	1066.00	2273.00	1483.00	4414.00	6058.00	6047.00	<u>389.00</u>
17	727.00	1462.00	1496.00	3979.00	5170.00	5037.00	<u>377.00</u>
18	1182.00	2422.00	1455.00	3884.00	5976.00	6110.00	<u>383.00</u>
19	1013.00	2272.00	1503.00	3707.00	5827.00	5643.00	<u>403.00</u>
20	1285.00	2664.00	1461.00	4088.00	5885.00	5633.00	<u>383.00</u>
21	726.00	1420.00	1411.00	3774.00	5211.00	4984.00	<u>378.00</u>
22	1203.00	2716.00	1515.00	4469.00	6001.00	5914.00	<u>387.00</u>
23	917.00	1761.00	1525.00	4292.00	5693.00	5687.00	<u>389.00</u>
24	847.00	1775.00	1465.00	3629.00	4824.00	4721.00	<u>401.00</u>
25	788.00	1656.00	1436.00	3687.00	4419.00	5249.00	<u>400.00</u>
26	988.00	2342.00	1404.00	4277.00	5878.00	5749.00	<u>397.00</u>
27	723.00	1338.00	1455.00	3987.00	5192.00	5227.00	<u>373.00</u>
28	652.00	1442.00	1469.00	3418.00	2007.00	2051.00	<u>386.00</u>
29	1276.00	2728.00	1507.00	3902.00	5528.00	5730.00	<u>384.00</u>
30	1280.00	2697.00	1431.00	4162.00	5563.00	5772.00	<u>400.00</u>
31	1232.00	2620.00	1557.00	4189.00	5860.00	5875.00	<u>385.00</u>
32	1221.00	2298.00	1553.00	3870.00	5889.00	5689.00	<u>384.00</u>
33	1459.00	2843.00	1457.00	3742.00	6109.00	5892.00	<u>392.00</u>
34	566.00	1182.00	1450.00	3921.00	2395.00	2413.00	<u>387.00</u>
35	846.00	1741.00	1475.00	3651.00	4753.00	4976.00	<u>376.00</u>
36	731.00	1487.00	1474.00	3994.00	4889.00	4855.00	<u>389.00</u>
37	799.00	1583.00	1554.00	3873.00	5513.00	5238.00	<u>382.00</u>
38	945.00	1883.00	1439.00	4207.00	5435.00	5645.00	<u>394.00</u>
39	1271.00	2534.00	1456.00	4047.00	6029.00	6074.00	<u>385.00</u>

40	730.00	1401.00	1474.00	3976.00	5204.00	5168.00	<u>376.00</u>
41	572.00	1212.00	1451.00	3987.00	4675.00	4890.00	<u>384.00</u>
42	1154.00	2584.00	1471.00	3959.00	6060.00	5917.00	<u>384.00</u>
43	973.00	1867.00	1485.00	3675.00	5549.00	5371.00	<u>387.00</u>
44	792.00	1638.00	1486.00	4050.00	5818.00	5704.00	<u>387.00</u>
45	867.00	1781.00	1517.00	3773.00	5645.00	5855.00	<u>383.00</u>
46	1146.00	2602.00	1436.00	3707.00	6080.00	6070.00	<u>390.00</u>
47	914.00	1819.00	1485.00	3631.00	5126.00	4981.00	<u>388.00</u>
48	567.00	1177.00	1431.00	3583.00	1537.00	1642.00	<u>395.00</u>
49	863.00	1744.00	1445.00	3587.00	4276.00	4548.00	<u>389.00</u>

Best Results:

ce\_src: 9/49 = 18.37%;

hr\_sre\_dacc: 39/49 = 79.59%;

ce\_cc: 1/49 = 2.04%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 109.93%

dace\_src: 316.92%

dace\_trc: 235.74%

ce\_trc: 877.33%

ce\_swc: 985.55%

ce\_cc: 987.94%

Table 2: Experiment Data

adverse-event-reporting-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1230.00	2134.00	1698.00	4304.00	6925.00	6869.00	<u>502.00</u>
2	585.00	931.00	1420.00	3986.00	1207.00	1451.00	<u>434.00</u>
3	722.00	1131.00	1425.00	3932.00	5261.00	5339.00	<u>421.00</u>
4	1023.00	1543.00	1471.00	3939.00	6078.00	6079.00	<u>415.00</u>
5	1018.00	1672.00	1423.00	3993.00	6675.00	6723.00	<u>418.00</u>
6	829.00	1350.00	1382.00	3881.00	6730.00	6701.00	<u>416.00</u>
7	835.00	1280.00	1392.00	3909.00	6540.00	6426.00	<u>420.00</u>
8	<u>578.00</u>	918.00	1805.00	3960.00	6463.00	6521.00	7093.00

9	836.00	1548.00	1720.00	3942.00	6275.00	6215.00	914.00
10	710.00	1120.00	1329.00	3881.00	4936.00	5149.00	<u>411.00</u>
11	1929.00	2693.00	1407.00	3869.00	6845.00	6831.00	<u>412.00</u>
12	570.00	931.00	1404.00	3974.00	1141.00	1401.00	<u>424.00</u>
13	1017.00	1963.00	1635.00	3956.00	6693.00	6855.00	<u>500.00</u>
14	1029.00	1536.00	1377.00	3901.00	6216.00	6532.00	<u>670.00</u>
15	1290.00	2191.00	1827.00	3976.00	6801.00	6847.00	<u>499.00</u>
16	<u>945.00</u>	1837.00	1881.00	-1	-1	-1	-1
17	1121.00	1652.00	1470.00	3905.00	6941.00	6934.00	<u>458.00</u>
18	938.00	1734.00	1598.00	3907.00	5359.00	5340.00	<u>480.00</u>
19	1017.00	1790.00	1612.00	3972.00	6771.00	6796.00	<u>477.00</u>
20	1033.00	1671.00	1272.00	3954.00	6280.00	6213.00	<u>401.00</u>
21	1541.00	2333.00	1416.00	3969.00	6823.00	6906.00	<u>402.00</u>
22	703.00	1219.00	1418.00	3961.00	5305.00	5222.00	<u>401.00</u>
23	825.00	1388.00	1315.00	3933.00	5449.00	5201.00	<u>398.00</u>
24	1076.00	1579.00	1342.00	3883.00	6788.00	6783.00	<u>403.00</u>
25	1009.00	1667.00	1401.00	3954.00	6845.00	6864.00	<u>410.00</u>
26	1161.00	1703.00	1311.00	3947.00	6827.00	6783.00	<u>408.00</u>
27	1084.00	1717.00	1391.00	3927.00	6727.00	6780.00	<u>409.00</u>
28	1028.00	1631.00	1352.00	3978.00	1715.00	1867.00	<u>530.00</u>
29	831.00	1538.00	1590.00	3962.00	6763.00	6799.00	<u>470.00</u>
30	1226.00	2134.00	1615.00	3963.00	7831.00	7792.00	<u>478.00</u>
31	1347.00	2325.00	1586.00	3840.00	8176.00	8183.00	<u>477.00</u>
32	1239.00	2112.00	1532.00	3745.00	5611.00	5812.00	<u>452.00</u>
33	1772.00	3036.00	1572.00	3800.00	7730.00	7754.00	<u>459.00</u>
34	1483.00	2530.00	1545.00	3889.00	6483.00	6470.00	<u>487.00</u>
35	1853.00	2854.00	1695.00	3867.00	6619.00	6642.00	<u>474.00</u>
36	1065.00	1878.00	1640.00	3844.00	5737.00	5823.00	<u>477.00</u>
37	918.00	1468.00	1429.00	3882.00	4548.00	4704.00	<u>407.00</u>
38	1748.00	2818.00	1637.00	4150.00	6527.00	6523.00	<u>540.00</u>
39	708.00	1236.00	1409.00	3987.00	3800.00	3973.00	<u>408.00</u>
40	<u>574.00</u>	923.00	1333.00	4068.00	1673.00	1845.00	855.00
41	1460.00	2074.00	1694.00	4450.00	6600.00	6512.00	<u>600.00</u>
42	1382.00	2741.00	1968.00	4174.00	6742.00	6972.00	<u>763.00</u>
43	1587.00	3177.00	2085.00	4077.00	7016.00	7172.00	<u>961.00</u>
44	1420.00	2461.00	1857.00	3962.00	6319.00	6206.00	<u>667.00</u>
45	1868.00	3204.00	1583.00	3881.00	6790.00	6737.00	<u>457.00</u>
46	1436.00	2548.00	1598.00	3898.00	7599.00	7560.00	<u>476.00</u>
47	1280.00	2006.00	1577.00	3810.00	5493.00	5423.00	<u>491.00</u>
48	1176.00	2213.00	1573.00	3904.00	5396.00	5577.00	<u>487.00</u>
49	1326.00	2306.00	1793.00	3972.00	6445.00	6491.00	<u>478.00</u>
50	1193.00	2150.00	1515.00	3840.00	5938.00	5853.00	<u>452.00</u>
51	826.00	1536.00	1638.00	3771.00	2065.00	2147.00	<u>482.00</u>

52	1949.00	3058.00	1615.00	3941.00	6607.00	6594.00	<u>473.00</u>
53	1850.00	3138.00	1754.00	4022.00	6762.00	6747.00	<u>487.00</u>
54	1802.00	2831.00	1493.00	4040.00	6628.00	6622.00	<u>474.00</u>
55	1770.00	3167.00	1568.00	4016.00	6597.00	6574.00	<u>477.00</u>
56	2143.00	3377.00	1670.00	3878.00	6936.00	6872.00	<u>484.00</u>
57	701.00	1393.00	1523.00	3839.00	2759.00	2829.00	<u>471.00</u>
58	1136.00	1996.00	1629.00	3846.00	5701.00	5660.00	<u>479.00</u>
59	927.00	1685.00	1627.00	3872.00	5533.00	5469.00	<u>480.00</u>
60	1015.00	1953.00	1602.00	3958.00	6116.00	6157.00	<u>482.00</u>
61	1282.00	2240.00	1600.00	3924.00	6240.00	6318.00	<u>481.00</u>
62	1867.00	3036.00	1569.00	4005.00	6792.00	6778.00	<u>458.00</u>
63	925.00	1621.00	1634.00	3924.00	6095.00	5993.00	<u>480.00</u>
64	707.00	1381.00	1619.00	3844.00	5138.00	5339.00	<u>476.00</u>
65	1619.00	2780.00	1598.00	3927.00	6857.00	6818.00	<u>476.00</u>
66	1319.00	2085.00	1638.00	3934.00	6289.00	6243.00	<u>479.00</u>
67	1013.00	1876.00	1560.00	4135.00	6657.00	6727.00	<u>481.00</u>
68	1088.00	1970.00	1545.00	3948.00	6770.00	6807.00	<u>481.00</u>
69	1608.00	3064.00	1730.00	3907.00	6861.00	6827.00	<u>481.00</u>
70	1173.00	2230.00	1541.00	3841.00	5626.00	5718.00	<u>480.00</u>
71	717.00	1383.00	1601.00	3775.00	1280.00	1507.00	<u>482.00</u>
72	1238.00	2127.00	1823.00	3801.00	5370.00	5373.00	<u>480.00</u>
73	-1	-1	-1	-1	-1	-1	-1
74	-1	-1	-1	-1	-1	-1	-1
75	-1	-1	-1	-1	-1	-1	-1
76	-1	-1	-1	-1	-1	-1	-1
77	-1	-1	-1	-1	-1	-1	-1
78	-1	-1	-1	-1	-1	-1	-1
79	-1	-1	-1	-1	-1	-1	-1
80	-1	-1	-1	-1	-1	-1	-1
81	-1	-1	-1	-1	-1	-1	-1
82	-1	-1	-1	-1	-1	-1	-1
83	-1	-1	-1	-1	-1	-1	-1
84	-1	-1	-1	-1	-1	-1	-1
85	-1	-1	-1	-1	-1	-1	-1
86	-1	-1	-1	-1	-1	-1	-1
87	-1	-1	-1	-1	-1	-1	-1
88	-1	-1	-1	-1	-1	-1	-1
89	-1	-1	-1	-1	-1	-1	-1
90	-1	-1	-1	-1	-1	-1	-1
91	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $68/91 = 74.73\%$ ;

ce\_src:  $4/91 = 4.40\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: -904.35%

dace\_src: -1752.82%

dace\_trc: -1874.94%

ce\_trc: 581.16%

ce\_swc: 896.70%

ce\_cc: 901.76%

Table 3: Experiment Data

amino-acid							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	2006.00	3128.00	<u>1407.00</u>	4104.00	5697.00	5770.00	2825.00
2	1930.00	2788.00	1386.00	3853.00	5817.00	5771.00	<u>323.00</u>
3	1138.00	2408.00	1676.00	3753.00	4309.00	4473.00	<u>792.00</u>
4	1275.00	2175.00	1551.00	3865.00	6058.00	5980.00	<u>795.00</u>
5	1164.00	2073.00	1485.00	3826.00	5743.00	5798.00	<u>323.00</u>
6	1356.00	2510.00	1703.00	3887.00	5746.00	5750.00	<u>807.00</u>
7	992.00	1707.00	1687.00	3855.00	6074.00	6435.00	<u>785.00</u>
8	<u>1368.00</u>	2646.00	1407.00	3847.00	4415.00	4280.00	2725.00
9	1897.00	2997.00	<u>1424.00</u>	3989.00	6121.00	5898.00	2882.00
10	<u>1402.00</u>	2402.00	1498.00	4058.00	4908.00	4920.00	2439.00
11	2029.00	2836.00	<u>1516.00</u>	3988.00	5997.00	5887.00	2655.00
12	1508.00	2674.00	<u>1436.00</u>	4066.00	4498.00	4601.00	3014.00
13	<u>1114.00</u>	1982.00	1377.00	4010.00	3544.00	3472.00	3540.00
14	1885.00	2953.00	<u>1542.00</u>	3988.00	6118.00	6068.00	3306.00
15	1088.00	2202.00	1376.00	3871.00	4291.00	4354.00	<u>324.00</u>
16	787.00	1541.00	1297.00	3852.00	1966.00	2072.00	<u>325.00</u>
17	1453.00	2230.00	<u>1449.00</u>	3969.00	4358.00	4335.00	3160.00
18	<u>1169.00</u>	2308.00	1460.00	4095.00	3574.00	3609.00	3686.00
19	<u>1450.00</u>	2481.00	1495.00	4002.00	5375.00	5235.00	4434.00
20	1611.00	2566.00	<u>1460.00</u>	3948.00	4914.00	4810.00	3076.00
21	1615.00	2654.00	1387.00	3946.00	5889.00	5796.00	<u>328.00</u>
22	933.00	1611.00	1462.00	4107.00	3385.00	3535.00	<u>717.00</u>
23	<u>915.00</u>	1803.00	1396.00	3927.00	2813.00	2769.00	3117.00
24	1798.00	2829.00	<u>1528.00</u>	3924.00	5505.00	5449.00	2772.00

25	997.00	1844.00	1458.00	3818.00	4759.00	4765.00	<u>338.00</u>
26	<u>1127.00</u>	1864.00	1537.00	3989.00	5202.00	5353.00	-1
27	1283.00	2001.00	1463.00	3731.00	3775.00	3831.00	<u>335.00</u>
28	1574.00	2518.00	1341.00	3823.00	5964.00	5917.00	<u>329.00</u>
29	1622.00	2639.00	<u>1460.00</u>	4051.00	4560.00	4555.00	2889.00
30	1166.00	1926.00	1413.00	3881.00	4577.00	4587.00	<u>326.00</u>
31	1139.00	2032.00	1475.00	3843.00	5727.00	5661.00	<u>328.00</u>
32	1415.00	2699.00	1505.00	3882.00	5750.00	5895.00	<u>794.00</u>
33	<u>981.00</u>	2090.00	1645.00	4103.00	5383.00	5389.00	-1
34	1738.00	2616.00	<u>1294.00</u>	4061.00	5394.00	5479.00	3052.00
35	<u>1208.00</u>	2143.00	1486.00	3985.00	3483.00	3639.00	3810.00
36	<u>922.00</u>	1953.00	1430.00	3964.00	2119.00	2284.00	4583.00
37	<u>1194.00</u>	2127.00	1418.00	4022.00	4318.00	4391.00	2806.00
38	1403.00	2334.00	1396.00	3813.00	5834.00	5684.00	<u>325.00</u>
39	<u>887.00</u>	1608.00	1516.00	3979.00	2327.00	2425.00	3030.00
40	1282.00	2089.00	1437.00	3868.00	5743.00	5877.00	<u>328.00</u>
41	<u>1205.00</u>	2175.00	1225.00	3915.00	4636.00	4414.00	-1
42	1520.00	2456.00	<u>1474.00</u>	4040.00	5132.00	5054.00	2740.00
43	<u>1732.00</u>	2734.00	2270.00	3978.00	5881.00	5806.00	2415.00
44	1539.00	2185.00	<u>1484.00</u>	3923.00	4965.00	5071.00	2611.00

Best Results:

dace\_trc: 12/44 = 27.27%;

hr\_sre\_dacc: 18/44 = 40.91%;

ce\_src: 14/44 = 31.82%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: -7475.95%

dace\_src: -13768.47%

dace\_trc: -9944.88%

ce\_trc: -26931.60%

ce\_swc: -34104.51%

ce\_cc: -33954.61%

Table 4: Experiment Data

basic-formal-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	567.00	788.00	624.00	841.00	1043.00	1077.00	<u>400.00</u>
2	513.00	688.00	622.00	840.00	952.00	993.00	<u>396.00</u>
3	456.00	680.00	624.00	838.00	903.00	925.00	<u>385.00</u>
4	502.00	747.00	632.00	837.00	805.00	825.00	<u>387.00</u>
5	<u>391.00</u>	618.00	615.00	816.00	764.00	797.00	<u>402.00</u>
6	<u>554.00</u>	801.00	609.00	839.00	951.00	983.00	<u>390.00</u>
7	422.00	671.00	645.00	828.00	788.00	820.00	<u>387.00</u>
8	604.00	870.00	654.00	829.00	1035.00	1050.00	<u>387.00</u>
9	566.00	786.00	631.00	841.00	1036.00	1069.00	<u>396.00</u>
10	507.00	725.00	627.00	829.00	1003.00	1040.00	<u>408.00</u>
11	594.00	832.00	621.00	834.00	1108.00	1109.00	<u>405.00</u>
12	524.00	737.00	621.00	829.00	1028.00	1055.00	<u>402.00</u>
13	488.00	745.00	634.00	832.00	921.00	954.00	<u>383.00</u>
14	567.00	784.00	603.00	842.00	953.00	968.00	<u>398.00</u>
15	587.00	803.00	635.00	839.00	1002.00	1039.00	<u>392.00</u>
16	532.00	707.00	645.00	836.00	948.00	993.00	<u>407.00</u>
17	532.00	726.00	623.00	836.00	951.00	982.00	<u>401.00</u>
18	509.00	727.00	615.00	834.00	949.00	984.00	<u>391.00</u>
19	610.00	847.00	619.00	837.00	992.00	1019.00	<u>402.00</u>
20	489.00	710.00	635.00	838.00	1066.00	1090.00	<u>391.00</u>
21	425.00	668.00	613.00	833.00	821.00	853.00	<u>389.00</u>
22	513.00	702.00	625.00	838.00	1041.00	1064.00	<u>396.00</u>
23	391.00	621.00	633.00	828.00	557.00	628.00	<u>390.00</u>
24	559.00	772.00	633.00	836.00	1031.00	1057.00	<u>405.00</u>
25	616.00	836.00	624.00	841.00	973.00	1005.00	<u>395.00</u>
26	424.00	678.00	632.00	832.00	901.00	935.00	<u>379.00</u>
27	487.00	713.00	612.00	845.00	951.00	987.00	<u>388.00</u>
28	573.00	824.00	640.00	834.00	999.00	1040.00	<u>387.00</u>
29	529.00	734.00	620.00	840.00	889.00	917.00	<u>402.00</u>
30	513.00	753.00	644.00	846.00	1007.00	1023.00	<u>391.00</u>
31	484.00	683.00	623.00	833.00	971.00	991.00	<u>391.00</u>
32	584.00	804.00	629.00	842.00	993.00	1021.00	<u>396.00</u>
33	455.00	667.00	596.00	830.00	713.00	767.00	<u>392.00</u>
34	454.00	702.00	632.00	830.00	720.00	769.00	<u>394.00</u>
35	530.00	784.00	635.00	825.00	835.00	874.00	<u>395.00</u>

Best Results:

hr\_sre\_dacc:  $34/35 = 97.14\%$ ;

ce\_src:  $1/35 = 2.86\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 30.75%

dace\_src: 87.93%

dace\_trc: 58.94%

ce\_trc: 111.87%

ce\_swc: 136.16%

ce\_cc: 144.16%

Table 5: Experiment Data

basic-vertebrate-anatomy							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	608.00	1062.00	1001.00	3689.00	3021.00	2939.00	<u>282.00</u>
2	706.00	1153.00	1095.00	3051.00	3032.00	3016.00	<u>273.00</u>
3	981.00	1357.00	976.00	2590.00	2693.00	2651.00	<u>286.00</u>
4	880.00	1218.00	1036.00	3634.00	2965.00	2894.00	<u>265.00</u>
5	603.00	1072.00	971.00	3641.00	1986.00	1983.00	<u>369.00</u>
6	710.00	1171.00	1115.00	3448.00	3420.00	3379.00	<u>275.00</u>
7	490.00	724.00	952.00	3251.00	3167.00	3164.00	<u>271.00</u>
8	601.00	1008.00	1109.00	3264.00	3221.00	3173.00	<u>274.00</u>
9	837.00	1218.00	1007.00	3652.00	3207.00	3209.00	<u>267.00</u>
10	602.00	1003.00	1060.00	3156.00	3183.00	3240.00	<u>270.00</u>
11	1233.00	1513.00	1024.00	3011.00	3139.00	3066.00	<u>258.00</u>
12	876.00	1247.00	924.00	3921.00	890.00	1075.00	<u>385.00</u>
13	1091.00	1397.00	1064.00	3889.00	3230.00	3233.00	<u>274.00</u>
14	488.00	716.00	1090.00	2430.00	1168.00	1253.00	<u>269.00</u>
15	485.00	721.00	1063.00	2436.00	1175.00	1248.00	<u>265.00</u>
16	604.00	1039.00	958.00	2488.00	1181.00	1254.00	<u>265.00</u>
17	709.00	1128.00	1103.00	3302.00	2018.00	1951.00	<u>274.00</u>
18	768.00	1157.00	960.00	3463.00	1891.00	1901.00	<u>260.00</u>
19	775.00	1245.00	1072.00	3094.00	2096.00	2090.00	<u>254.00</u>
20	836.00	1236.00	949.00	2943.00	2035.00	2113.00	<u>252.00</u>
21	488.00	732.00	965.00	3327.00	1971.00	1948.00	<u>288.00</u>
22	602.00	1042.00	1053.00	3569.00	2534.00	2634.00	<u>268.00</u>
23	600.00	1067.00	973.00	3181.00	3092.00	2975.00	<u>283.00</u>
24	1218.00	1532.00	983.00	3523.00	2918.00	2898.00	<u>257.00</u>
25	975.00	1352.00	975.00	3104.00	2867.00	2892.00	<u>257.00</u>
26	1326.00	1687.00	972.00	3645.00	3399.00	3410.00	<u>259.00</u>
27	937.00	1348.00	1110.00	3330.00	2550.00	2619.00	<u>256.00</u>
28	928.00	1275.00	965.00	2432.00	2646.00	2589.00	<u>255.00</u>



29	772.00	1409.00	1314.00	3353.00	3317.00	3355.00	<u>283.00</u>
30	706.00	1063.00	1020.00	4217.00	1820.00	1812.00	<u>274.00</u>
31	608.00	981.00	974.00	3551.00	929.00	1080.00	<u>305.00</u>
32	1083.00	1389.00	1025.00	3614.00	3192.00	3097.00	<u>264.00</u>
33	599.00	1158.00	1224.00	3389.00	3230.00	3089.00	<u>282.00</u>

Best Results:

hr\_sre\_dacc:  $33/33 = 100.00\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 186.31%

dace\_src: 326.19%

dace\_trc: 277.13%

ce\_trc: 1096.07%

ce\_swc: 827.57%

ce\_cc: 827.55%

Table 6: Experiment Data

biological-imaging-methods							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1081.00	1752.00	920.00	3191.00	3961.00	4271.00	<u>265.00</u>
2	746.00	1720.00	1101.00	3139.00	1689.00	2093.00	<u>295.00</u>
3	1025.00	1857.00	1047.00	3159.00	3421.00	3666.00	<u>306.00</u>
4	998.00	1966.00	1018.00	3054.00	3120.00	3531.00	<u>302.00</u>
5	1331.00	2253.00	1117.00	3166.00	4073.00	4294.00	<u>303.00</u>
6	936.00	2056.00	1073.00	3128.00	3032.00	3413.00	<u>299.00</u>
7	1167.00	2074.00	1022.00	3173.00	4006.00	4178.00	<u>310.00</u>
8	1114.00	1833.00	865.00	3218.00	3189.00	3742.00	<u>392.00</u>
9	801.00	1366.00	1222.00	3094.00	4007.00	4272.00	<u>315.00</u>
10	847.00	1681.00	1220.00	3099.00	3973.00	4341.00	<u>309.00</u>
11	470.00	731.00	904.00	3325.00	720.00	666.00	<u>347.00</u>
12	1129.00	2296.00	1056.00	3285.00	4013.00	4286.00	<u>292.00</u>
13	915.00	1711.00	1196.00	3148.00	4018.00	4323.00	<u>421.00</u>
14	789.00	1577.00	1042.00	3186.00	3768.00	4128.00	<u>312.00</u>
15	627.00	1129.00	913.00	3243.00	3398.00	3688.00	<u>383.00</u>
16	554.00	992.00	848.00	3193.00	3408.00	3728.00	<u>319.00</u>

17	715.00	1466.00	1032.00	3198.00	4022.00	4210.00	<u>281.00</u>
18	808.00	1619.00	1111.00	3103.00	3906.00	4184.00	<u>276.00</u>
19	661.00	1383.00	1004.00	3083.00	2860.00	3231.00	<u>274.00</u>
20	617.00	1277.00	1194.00	3084.00	1754.00	2212.00	<u>301.00</u>
21	470.00	736.00	900.00	3307.00	1500.00	1910.00	<u>305.00</u>
22	852.00	1813.00	1182.00	3186.00	3950.00	4189.00	<u>295.00</u>
23	1098.00	2057.00	1077.00	3188.00	3905.00	4191.00	<u>306.00</u>
24	468.00	737.00	962.00	3189.00	1304.00	1678.00	<u>338.00</u>
25	466.00	732.00	986.00	3114.00	1305.00	1692.00	<u>351.00</u>
26	799.00	1664.00	1068.00	3221.00	3739.00	4081.00	<u>495.00</u>
27	620.00	1112.00	977.00	3180.00	2874.00	3341.00	<u>284.00</u>
28	554.00	996.00	848.00	3226.00	2977.00	3346.00	<u>331.00</u>
29	471.00	733.00	930.00	3136.00	3036.00	3391.00	<u>285.00</u>
30	756.00	1424.00	924.00	3143.00	3692.00	3922.00	<u>271.00</u>
31	555.00	931.00	893.00	3194.00	3381.00	3710.00	<u>349.00</u>
32	475.00	736.00	856.00	3171.00	3415.00	3681.00	<u>290.00</u>
33	666.00	1066.00	957.00	3187.00	3042.00	3395.00	<u>275.00</u>
34	553.00	990.00	884.00	3166.00	3087.00	3420.00	<u>351.00</u>
35	465.00	734.00	912.00	3118.00	2977.00	3372.00	<u>287.00</u>
36	554.00	1108.00	1088.00	3189.00	2152.00	2682.00	<u>300.00</u>
37	744.00	1549.00	1144.00	3099.00	3773.00	4131.00	<u>302.00</u>
38	796.00	1626.00	947.00	3143.00	2994.00	3316.00	<u>287.00</u>
39	551.00	913.00	905.00	3187.00	2400.00	2804.00	<u>267.00</u>
40	553.00	1001.00	933.00	3182.00	3043.00	3318.00	<u>271.00</u>
41	798.00	1357.00	893.00	3121.00	3772.00	4151.00	<u>389.00</u>
42	558.00	1005.00	878.00	3111.00	3885.00	4215.00	<u>306.00</u>
43	622.00	1009.00	1022.00	3138.00	3789.00	4107.00	<u>270.00</u>

Best Results:

hr\_sre\_dacc: 43/43 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 138.98%

dace\_src: 342.38%

dace\_trc: 224.47%

ce\_trc: 925.01%

ce\_swc: 928.26%

ce\_cc: 1034.81%

Table 7: Experiment Data

biopax							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swk	ce_cc	hr_sre_dacc
1	898.00	1479.00	1242.00	3050.00	3775.00	3765.00	<u>300.00</u>
2	845.00	1481.00	1173.00	3096.00	3263.00	3233.00	<u>302.00</u>
3	1320.00	1944.00	1303.00	2999.00	4267.00	4249.00	<u>311.00</u>
4	729.00	1537.00	1353.00	2920.00	2054.00	2171.00	<u>362.00</u>

Best Results:

hr\_sre\_dacc:  $4/4 = 100.00\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 201.24%

dace\_src: 408.27%

dace\_trc: 298.78%

ce\_trc: 853.19%

ce\_swk: 969.56%

ce\_cc: 972.87%

Table 8: Experiment Data

biotop							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swk	ce_cc	hr_sre_dacc
1	1150.00	2021.00	1739.00	6915.00	10246.00	8830.00	<u>370.00</u>
2	668.00	978.00	1657.00	7218.00	6486.00	5317.00	<u>481.00</u>
3	798.00	1598.00	1643.00	5741.00	6769.00	5687.00	<u>481.00</u>
4	1562.00	2577.00	1646.00	5772.00	8134.00	7240.00	<u>371.00</u>
5	-1	-1	-1	-1	-1	-1	<u>380.00</u>
6	799.00	1485.00	1710.00	7188.00	5818.00	4700.00	<u>256.00</u>
7	1796.00	2691.00	1684.00	7152.00	10045.00	9168.00	<u>349.00</u>
8	1422.00	2461.00	1772.00	7233.00	7645.00	6344.00	<u>255.00</u>
9	1354.00	2237.00	1685.00	7207.00	9766.00	8522.00	<u>370.00</u>
10	-1	-1	-1	-1	-1	-1	<u>414.00</u>
11	-1	-1	-1	-1	-1	-1	<u>407.00</u>
12	1504.00	2540.00	1611.00	7011.00	9632.00	8500.00	<u>361.00</u>
13	-1	-1	-1	-1	-1	-1	<u>415.00</u>

14	-1	-1	-1	-1	-1	-1	<u>409.00</u>
15	800.00	1540.00	1509.00	7182.00	7364.00	6166.00	<u>397.00</u>
16	1351.00	2251.00	1886.00	7702.00	10946.00	9967.00	<u>381.00</u>
17	1452.00	2397.00	1787.00	7443.00	11491.00	9972.00	<u>374.00</u>
18	-1	-1	-1	5783.00	7522.00	6114.00	<u>913.00</u>
19	1512.00	2352.00	1826.00	7227.00	10592.00	9305.00	<u>398.00</u>
20	668.00	967.00	1708.00	6801.00	4252.00	3327.00	<u>412.00</u>
21	-1	-1	-1	-1	-1	-1	<u>472.00</u>
22	1276.00	2156.00	1500.00	7485.00	10561.00	9437.00	<u>388.00</u>
23	941.00	1879.00	1709.00	5851.00	6498.00	5379.00	<u>391.00</u>
24	1042.00	2014.00	1957.00	5790.00	9501.00	8161.00	<u>257.00</u>
25	830.00	1516.00	-1	7153.00	-1	-1	<u>544.00</u>
26	671.00	979.00	1924.00	7169.00	2363.00	2209.00	<u>254.00</u>
27	1149.00	2038.00	1454.00	7269.00	9095.00	7700.00	<u>379.00</u>
28	668.00	979.00	1666.00	7235.00	1961.00	1861.00	<u>253.00</u>
29	923.00	1809.00	1853.00	7298.00	8910.00	7805.00	<u>400.00</u>
30	828.00	1621.00	-1	-1	-1	-1	<u>720.00</u>
31	1496.00	2421.00	1745.00	7216.00	10532.00	9244.00	<u>347.00</u>
32	1557.00	2358.00	1611.00	7121.00	9152.00	8079.00	<u>467.00</u>
33	-1	-1	-1	-1	-1	-1	<u>502.00</u>
34	-1	-1	-1	-1	-1	-1	<u>507.00</u>
35	-1	-1	<u>1735.00</u>	-1	-1	-1	-1
36	668.00	986.00	1684.00	7209.00	3979.00	3204.00	<u>459.00</u>
37	1031.00	2080.00	1579.00	7298.00	8332.00	7139.00	<u>469.00</u>
38	<u>684.00</u>	1011.00	1795.00	7281.00	6658.00	4867.00	-1
39	670.00	976.00	1849.00	7144.00	3866.00	3059.00	<u>345.00</u>
40	791.00	1570.00	1560.00	7172.00	7672.00	6606.00	<u>470.00</u>
41	1505.00	2329.00	1711.00	6787.00	10724.00	9505.00	<u>403.00</u>
42	-1	-1	-1	-1	-1	-1	<u>1049.00</u>
43	-1	-1	-1	-1	-1	-1	<u>397.00</u>
44	-1	-1	1694.00	6991.00	6309.00	5012.00	<u>850.00</u>
45	916.00	1754.00	1608.00	5702.00	4065.00	3235.00	<u>393.00</u>
46	1151.00	2042.00	1840.00	7415.00	7779.00	6217.00	<u>374.00</u>
47	2339.00	3273.00	1843.00	7224.00	11313.00	9902.00	<u>481.00</u>
48	671.00	970.00	1826.00	7213.00	6348.00	4904.00	<u>367.00</u>
49	1152.00	2045.00	1830.00	6989.00	8376.00	6851.00	<u>251.00</u>
50	1274.00	2256.00	1673.00	5834.00	10819.00	8942.00	<u>253.00</u>
51	1262.00	2134.00	1410.00	7137.00	6406.00	4873.00	<u>380.00</u>
52	<u>672.00</u>	987.00	-1	7285.00	7756.00	6243.00	<u>895.00</u>
53	1023.00	2036.00	1536.00	7374.00	9316.00	7417.00	<u>395.00</u>
54	1432.00	2845.00	2038.00	7167.00	9715.00	7890.00	<u>478.00</u>
55	-1	-1	-1	-1	-1	-1	<u>410.00</u>
56	1571.00	2463.00	1720.00	7182.00	10548.00	8884.00	<u>466.00</u>

57	1586.00	2538.00	1548.00	7467.00	11734.00	10083.00	<u>492.00</u>
58	<u>681.00</u>	1000.00	1640.00	-1	10663.00	8924.00	-1
59	1887.00	3105.00	2125.00	7207.00	10194.00	8752.00	<u>435.00</u>
60	1154.00	2110.00	1509.00	7294.00	9622.00	8032.00	<u>254.00</u>
61	1264.00	2192.00	1728.00	7188.00	8192.00	6823.00	<u>360.00</u>
62	2007.00	2880.00	1784.00	7207.00	10025.00	8601.00	<u>362.00</u>
63	668.00	989.00	1581.00	7625.00	1140.00	1345.00	<u>255.00</u>
64	1427.00	2502.00	1634.00	6875.00	9070.00	7735.00	<u>359.00</u>
65	-1	-1	-1	-1	-1	-1	<u>379.00</u>
66	-1	-1	-1	-1	-1	-1	<u>385.00</u>
67	1270.00	2014.00	1571.00	7067.00	9170.00	7663.00	<u>402.00</u>
68	1350.00	2068.00	1820.00	7046.00	11347.00	9957.00	<u>253.00</u>
69	1025.00	2112.00	1892.00	7260.00	10146.00	8610.00	<u>420.00</u>
70	1268.00	2228.00	1782.00	7210.00	7958.00	6481.00	<u>351.00</u>
71	-1	-1	-1	-1	-1	-1	<u>460.00</u>
72	1022.00	1980.00	1657.00	7192.00	6449.00	5141.00	<u>449.00</u>
73	1717.00	2494.00	1703.00	7308.00	9764.00	8525.00	<u>443.00</u>
74	668.00	982.00	1693.00	7225.00	1525.00	1741.00	<u>446.00</u>
75	-1	-1	-1	-1	-1	-1	<u>455.00</u>
76	-1	-1	-1	-1	-1	-1	<u>478.00</u>
77	1340.00	2198.00	1792.00	7368.00	7226.00	5502.00	<u>451.00</u>
78	-1	-1	-1	-1	-1	-1	<u>461.00</u>
79	-1	-1	-1	-1	-1	-1	<u>419.00</u>
80	1431.00	2411.00	1720.00	5820.00	9920.00	8014.00	<u>407.00</u>
81	1425.00	2318.00	1687.00	7100.00	10277.00	8452.00	<u>255.00</u>
82	1023.00	2032.00	1717.00	7274.00	10333.00	8390.00	<u>256.00</u>
83	806.00	1508.00	1750.00	7172.00	9138.00	7138.00	<u>368.00</u>
84	-1	-1	-1	-1	-1	-1	<u>387.00</u>
85	804.00	1532.00	1787.00	7257.00	10900.00	8998.00	<u>258.00</u>
86	1026.00	1967.00	1754.00	7219.00	7883.00	6165.00	<u>257.00</u>
87	1037.00	1882.00	1727.00	5765.00	11108.00	9095.00	<u>263.00</u>
88	927.00	1700.00	1646.00	7429.00	11547.00	9442.00	<u>259.00</u>
89	2601.00	3300.00	1776.00	7242.00	11861.00	9728.00	<u>380.00</u>
90	913.00	1787.00	1720.00	6970.00	5667.00	4197.00	<u>343.00</u>
91	2009.00	2955.00	1662.00	6979.00	10012.00	8161.00	<u>356.00</u>
92	665.00	989.00	1846.00	7223.00	8266.00	6474.00	<u>377.00</u>
93	912.00	1872.00	1801.00	6795.00	8686.00	6760.00	<u>474.00</u>
94	670.00	971.00	1547.00	7256.00	6305.00	4773.00	<u>477.00</u>
95	-1	-1	-1	-1	-1	-1	<u>462.00</u>
96	-1	-1	-1	-1	-1	-1	<u>411.00</u>
97	-1	-1	-1	-1	-1	-1	<u>408.00</u>
98	1577.00	2435.00	1763.00	7306.00	7947.00	6524.00	<u>255.00</u>
99	1620.00	2453.00	1765.00	5916.00	10156.00	8783.00	<u>253.00</u>

100	669.00	976.00	1783.00	7353.00	5969.00	4611.00	255.00
101	1274.00	2210.00	1690.00	7160.00	7932.00	6433.00	349.00
102	1021.00	2016.00	1780.00	7154.00	6146.00	4839.00	255.00
103	1427.00	2269.00	1797.00	7440.00	10512.00	9120.00	350.00
104	804.00	1570.00	1645.00	7167.00	9594.00	7845.00	254.00
105	1266.00	2305.00	1878.00	7217.00	10188.00	8636.00	371.00
106	670.00	985.00	1727.00	6767.00	4211.00	3286.00	345.00
107	803.00	1500.00	1652.00	-1	9616.00	8017.00	825.00
108	-1	-1	-1	-1	-1	-1	385.00
109	1027.00	2113.00	1751.00	7256.00	8875.00	7360.00	256.00
110	1351.00	2285.00	1745.00	7262.00	9617.00	7817.00	386.00
111	915.00	1763.00	1728.00	7165.00	8652.00	7423.00	376.00
112	-1	-1	1606.00	-1	-1	-1	1118.00
113	-1	-1	-1	-1	-1	-1	363.00
114	-1	-1	-1	-1	-1	-1	916.00
115	-1	-1	-1	-1	-1	-1	390.00
116	-1	-1	1588.00	-1	-1	-1	1022.00
117	1575.00	2491.00	1509.00	7417.00	9256.00	7825.00	407.00
118	799.00	1472.00	1958.00	7696.00	7559.00	6217.00	404.00
119	914.00	1697.00	1889.00	7197.00	4260.00	3380.00	437.00
120	1328.00	2356.00	1941.00	7367.00	9035.00	7687.00	478.00
121	680.00	1003.00	-1	7342.00	9085.00	7557.00	659.00
122	1020.00	2187.00	1664.00	7859.00	9107.00	7893.00	371.00
123	1965.00	2937.00	1812.00	8015.00	10958.00	9946.00	391.00
124	913.00	1748.00	1623.00	7457.00	9036.00	7851.00	255.00
125	799.00	1404.00	1776.00	7887.00	9967.00	8777.00	257.00
126	912.00	1859.00	1671.00	6747.00	10755.00	9613.00	255.00
127	666.00	977.00	1733.00	7716.00	2236.00	2130.00	255.00
128	1430.00	2413.00	1852.00	7230.00	10116.00	8838.00	394.00
129	1708.00	2596.00	1901.00	7292.00	10279.00	8950.00	256.00
130	669.00	979.00	1737.00	7180.00	6732.00	5359.00	258.00
131	-1	-1	-1	-1	-1	-1	368.00
132	1545.00	2383.00	1696.00	7058.00	11143.00	8960.00	253.00
133	666.00	990.00	1672.00	7321.00	7903.00	6075.00	895.00
134	909.00	1752.00	1741.00	5763.00	7757.00	6288.00	397.00
135	1142.00	2042.00	1802.00	7220.00	9758.00	8186.00	251.00
136	799.00	1603.00	1535.00	7302.00	4982.00	3988.00	393.00
137	675.00	990.00	1643.00	7719.00	4983.00	3769.00	563.00
138	1033.00	2044.00	1689.00	6889.00	6195.00	4762.00	255.00
139	1613.00	2510.00	1534.00	7234.00	11348.00	10017.00	380.00
140	683.00	990.00	1608.00	7696.00	6748.00	5069.00	536.00
141	-1	-1	-1	-1	-1	-1	411.00
142	1264.00	2078.00	1734.00	7767.00	10337.00	8227.00	401.00

143	-1	-1	-1	-1	-1	-1	<u>425.00</u>
144	1264.00	2309.00	1678.00	7204.00	6354.00	5011.00	<u>453.00</u>
145	1362.00	2346.00	1880.00	7366.00	11309.00	9937.00	<u>405.00</u>
146	910.00	1770.00	1747.00	7129.00	11051.00	9787.00	<u>261.00</u>
147	920.00	1949.00	1801.00	7724.00	7008.00	5484.00	<u>257.00</u>
148	799.00	1601.00	1834.00	7700.00	9827.00	8449.00	<u>258.00</u>
149	1046.00	1890.00	1799.00	7363.00	11255.00	9972.00	<u>258.00</u>
150	923.00	1872.00	1857.00	7302.00	10135.00	8754.00	<u>259.00</u>
151	1021.00	1957.00	1849.00	7242.00	10431.00	9218.00	<u>257.00</u>
152	805.00	1417.00	1693.00	7209.00	6813.00	5224.00	<u>254.00</u>
153	1268.00	2247.00	1606.00	7369.00	9846.00	8610.00	<u>399.00</u>
154	681.00	998.00	-1	7795.00	6156.00	4420.00	<u>556.00</u>
155	1142.00	2341.00	2181.00	6895.00	6960.00	5563.00	<u>480.00</u>
156	670.00	979.00	1745.00	7801.00	2088.00	2026.00	<u>473.00</u>
157	1152.00	2114.00	1678.00	7228.00	10247.00	8899.00	<u>253.00</u>
158	1927.00	2796.00	1528.00	7267.00	11346.00	9919.00	<u>255.00</u>
159	-1	-1	-1	-1	-1	-1	<u>373.00</u>
160	1031.00	2032.00	1588.00	7264.00	9524.00	8185.00	<u>358.00</u>
161	1445.00	2406.00	1779.00	7357.00	10462.00	9248.00	<u>397.00</u>
162	-1	-1	-1	-1	-1	-1	<u>1502.00</u>
163	666.00	981.00	1708.00	7612.00	3236.00	2775.00	<u>450.00</u>
164	910.00	1851.00	1852.00	7841.00	8461.00	7039.00	<u>255.00</u>
165	688.00	1009.00	-1	7315.00	9576.00	7627.00	<u>551.00</u>
166	-1	-1	-1	-1	-1	-1	<u>382.00</u>
167	1246.00	2266.00	1756.00	6936.00	5325.00	4203.00	<u>251.00</u>
168	1274.00	2237.00	1706.00	7103.00	10886.00	9531.00	<u>345.00</u>
169	793.00	1474.00	1525.00	7230.00	5779.00	4560.00	<u>253.00</u>
170	1346.00	2294.00	1535.00	7214.00	9421.00	8252.00	<u>350.00</u>
171	915.00	1959.00	1681.00	7244.00	9221.00	7847.00	<u>254.00</u>
172	924.00	1967.00	1730.00	6821.00	11133.00	9795.00	<u>394.00</u>
173	-1	-1	-1	7190.00	-1	-1	<u>459.00</u>
174	2065.00	2955.00	1738.00	7331.00	11173.00	9874.00	<u>255.00</u>
175	1279.00	1988.00	1587.00	6882.00	10834.00	9477.00	<u>355.00</u>
176	1038.00	2121.00	1881.00	7222.00	5125.00	4140.00	<u>394.00</u>
177	689.00	1001.00	1583.00	7325.00	-1	-1	<u>551.00</u>
178	-1	-1	-1	-1	-1	-1	<u>444.00</u>
179	795.00	1447.00	1744.00	7389.00	4507.00	3582.00	<u>411.00</u>
180	913.00	1734.00	1877.00	7153.00	10733.00	9462.00	<u>477.00</u>
181	-1	-1	-1	7595.00	-1	-1	<u>884.00</u>
182	-1	-1	-1	-1	-1	-1	<u>386.00</u>
183	937.00	1765.00	1685.00	7231.00	6659.00	5263.00	<u>257.00</u>
184	1267.00	2067.00	1574.00	5848.00	8410.00	7001.00	<u>256.00</u>
185	1346.00	2118.00	1543.00	7138.00	8999.00	7612.00	<u>252.00</u>

186	794.00	1591.00	1672.00	7201.00	4164.00	3315.00	<u>254.00</u>
187	1632.00	2428.00	1905.00	7779.00	11445.00	9898.00	<u>253.00</u>
188	1665.00	2486.00	1698.00	7039.00	10472.00	9189.00	<u>257.00</u>
189	1567.00	2446.00	1725.00	7016.00	10255.00	8908.00	<u>253.00</u>
190	667.00	985.00	1773.00	7573.00	1147.00	1278.00	<u>251.00</u>
191	1418.00	2409.00	1752.00	7730.00	9967.00	8590.00	<u>252.00</u>
192	672.00	989.00	1696.00	7073.00	4697.00	3685.00	<u>254.00</u>
193	922.00	1870.00	1785.00	7203.00	7090.00	5547.00	<u>254.00</u>
194	1575.00	2418.00	1752.00	7166.00	8279.00	6892.00	<u>254.00</u>
195	-1	-1	-1	-1	-1	-1	<u>370.00</u>
196	1029.00	1949.00	1764.00	7661.00	8916.00	7545.00	<u>388.00</u>
197	665.00	982.00	1635.00	7163.00	7026.00	5612.00	<u>255.00</u>
198	1644.00	2506.00	1791.00	7312.00	10497.00	9136.00	<u>391.00</u>
199	682.00	995.00	1631.00	-1	10439.00	8831.00	<u>555.00</u>
200	1629.00	2479.00	1801.00	7255.00	10219.00	8928.00	<u>422.00</u>
201	2176.00	3123.00	1698.00	7283.00	10198.00	8937.00	<u>367.00</u>
202	1788.00	2807.00	1576.00	7247.00	10740.00	9479.00	<u>254.00</u>
203	1150.00	2119.00	1752.00	7595.00	10172.00	8891.00	<u>350.00</u>
204	1788.00	2660.00	1646.00	7280.00	10302.00	9083.00	<u>254.00</u>
205	-1	-1	-1	-1	-1	-1	<u>490.00</u>
206	1560.00	2594.00	1572.00	7536.00	7657.00	6227.00	<u>369.00</u>
207	1753.00	2589.00	1882.00	6011.00	8209.00	6895.00	<u>368.00</u>
208	1877.00	2702.00	1848.00	7284.00	9538.00	8329.00	<u>366.00</u>
209	1508.00	2326.00	1589.00	7339.00	10321.00	9176.00	<u>351.00</u>
210	-1	-1	-1	-1	-1	-1	<u>365.00</u>
211	-1	-1	-1	-1	-1	-1	<u>370.00</u>
212	-1	-1	-1	-1	-1	-1	<u>358.00</u>
213	1583.00	2540.00	1801.00	7207.00	11136.00	9707.00	<u>351.00</u>
214	791.00	1579.00	-1	-1	9647.00	8258.00	<u>531.00</u>
215	1558.00	2419.00	1545.00	6902.00	9568.00	8371.00	<u>451.00</u>
216	800.00	1501.00	1610.00	7362.00	9624.00	8234.00	<u>482.00</u>
217	<u>675.00</u>	984.00	1686.00	-1	2106.00	2032.00	-1
218	1270.00	2183.00	1811.00	7593.00	10079.00	8802.00	<u>358.00</u>
219	807.00	1516.00	1639.00	7221.00	5442.00	4201.00	<u>349.00</u>
220	1439.00	2393.00	1687.00	7000.00	11212.00	10122.00	<u>365.00</u>
221	1982.00	2667.00	1683.00	5878.00	10360.00	8740.00	<u>356.00</u>
222	1149.00	2094.00	1816.00	7250.00	9452.00	8042.00	<u>251.00</u>
223	905.00	1920.00	1641.00	7165.00	5466.00	4405.00	<u>388.00</u>
224	1345.00	2321.00	1649.00	5844.00	8745.00	7174.00	<u>360.00</u>
225	1354.00	2373.00	1723.00	7140.00	8240.00	6775.00	<u>381.00</u>
226	-1	-1	-1	-1	-1	-1	<u>387.00</u>
227	-1	-1	-1	-1	-1	-1	<u>374.00</u>
228	-1	-1	-1	-1	-1	-1	<u>372.00</u>



229	1030.00	2560.00	1904.00	7721.00	7693.00	6256.00	458.00
230	802.00	1489.00	1711.00	7487.00	9372.00	8073.00	254.00
231	1777.00	2728.00	1816.00	7352.00	11187.00	9842.00	256.00
232	-1	-1	-1	-1	-1	-1	368.00
233	1156.00	2200.00	1464.00	7365.00	10749.00	9601.00	350.00
234	1037.00	2038.00	1679.00	7457.00	11108.00	9843.00	254.00
235	1049.00	2147.00	1740.00	7641.00	11041.00	9560.00	257.00
236	667.00	982.00	1869.00	7367.00	5165.00	3982.00	256.00
237	1021.00	2023.00	1646.00	7279.00	10238.00	8912.00	254.00
238	797.00	1573.00	1713.00	7204.00	7300.00	5934.00	258.00
239	1266.00	2049.00	1827.00	7644.00	9977.00	8749.00	463.00
240	1503.00	2332.00	1686.00	7268.00	10640.00	9332.00	466.00
241	1025.00	1967.00	1608.00	7142.00	8835.00	7445.00	466.00
242	801.00	1451.00	1774.00	7753.00	8161.00	6738.00	466.00
243	1150.00	1973.00	1645.00	7478.00	10644.00	9197.00	359.00
244	911.00	1947.00	1706.00	7183.00	6467.00	5038.00	359.00
245	1681.00	3039.00	1922.00	7434.00	9297.00	7977.00	477.00
246	936.00	2118.00	1658.00	-1	11112.00	9819.00	902.00
247	912.00	1813.00	1497.00	-1	5020.00	3938.00	413.00
248	797.00	1489.00	1803.00	7238.00	5002.00	3936.00	371.00
249	-1	-1	1692.00	8017.00	-1	-1	415.00
250	1996.00	2976.00	1469.00	7084.00	11238.00	9829.00	370.00
251	1147.00	2451.00	1980.00	6939.00	10146.00	8807.00	476.00
252	-1	-1	-1	-1	-1	-1	320.00
253	-1	-1	-1	-1	-1	-1	-1
254	1429.00	2493.00	1827.00	7269.00	11355.00	9986.00	255.00
255	800.00	1854.00	1770.00	7157.00	7181.00	5679.00	253.00
256	1543.00	2350.00	1606.00	7501.00	10873.00	9617.00	476.00
257	-1	-1	-1	-1	-1	-1	-1
258	668.00	989.00	1698.00	7827.00	6748.00	5330.00	395.00
259	-1	-1	-1	-1	-1	-1	409.00
260	664.00	972.00	1695.00	7774.00	6881.00	5399.00	361.00
261	1422.00	2392.00	1646.00	7347.00	11146.00	10006.00	254.00
262	903.00	1751.00	1656.00	7463.00	7881.00	6331.00	258.00
263	662.00	979.00	1708.00	7393.00	1140.00	1027.00	253.00
264	1260.00	2136.00	1856.00	7867.00	11230.00	9961.00	255.00
265	672.00	985.00	1637.00	7856.00	1742.00	1837.00	381.00
266	1358.00	2268.00	1760.00	7373.00	9966.00	8335.00	343.00
267	1814.00	2694.00	1589.00	7719.00	10455.00	9243.00	253.00
268	795.00	1502.00	1580.00	7872.00	2031.00	1964.00	254.00
269	1844.00	2679.00	1628.00	7069.00	10328.00	8916.00	395.00
270	2039.00	3044.00	1754.00	7418.00	11435.00	10135.00	386.00
271	1142.00	2119.00	1629.00	7799.00	6901.00	5416.00	256.00

272	1141.00	2174.00	1825.00	7395.00	11170.00	9708.00	<u>253.00</u>
273	1267.00	2043.00	1675.00	7968.00	10798.00	9484.00	<u>251.00</u>
274	795.00	1597.00	1795.00	8180.00	3970.00	3110.00	<u>376.00</u>
275	-1	-1	-1	-1	-1	-1	<u>478.00</u>
276	680.00	1087.00	-1	7350.00	-1	-1	<u>531.00</u>
277	-1	-1	-1	-1	-1	-1	<u>398.00</u>
278	792.00	1572.00	1758.00	5924.00	7362.00	5994.00	<u>255.00</u>
279	-1	-1	-1	-1	-1	-1	<u>366.00</u>
280	2202.00	2997.00	1712.00	6935.00	11222.00	9925.00	<u>393.00</u>
281	1154.00	2217.00	1678.00	7217.00	10262.00	8956.00	<u>352.00</u>
282	1035.00	2046.00	1833.00	5838.00	10145.00	8864.00	<u>352.00</u>
283	-1	-1	-1	-1	-1	-1	<u>384.00</u>
284	1031.00	2103.00	1717.00	7253.00	8360.00	7101.00	<u>353.00</u>
285	1347.00	2278.00	1735.00	7310.00	9681.00	8268.00	<u>255.00</u>
286	1147.00	2040.00	1725.00	7457.00	9334.00	7912.00	<u>392.00</u>
287	679.00	1003.00	1665.00	-1	6075.00	4451.00	<u>555.00</u>
288	1431.00	2332.00	1739.00	7249.00	9938.00	8568.00	<u>340.00</u>
289	668.00	983.00	1783.00	7244.00	7135.00	5785.00	<u>376.00</u>
290	-1	-1	-1	-1	-1	-1	<u>418.00</u>
291	-1	-1	-1	-1	-1	-1	<u>418.00</u>
292	-1	-1	-1	-1	-1	-1	<u>419.00</u>
293	1269.00	2142.00	1852.00	7107.00	11691.00	9931.00	<u>404.00</u>
294	1483.00	2533.00	1757.00	7322.00	10642.00	8583.00	<u>376.00</u>
295	684.00	998.00	1800.00	7482.00	8824.00	6949.00	<u>511.00</u>
296	905.00	1861.00	1702.00	7337.00	6625.00	5011.00	<u>350.00</u>
297	-1	-1	-1	-1	-1	-1	<u>410.00</u>
298	-1	-1	-1	-1	-1	-1	<u>409.00</u>
299	669.00	987.00	1719.00	7237.00	6861.00	5176.00	<u>255.00</u>
300	1345.00	2370.00	1650.00	7317.00	11292.00	9564.00	<u>356.00</u>
301	800.00	1516.00	1761.00	7218.00	9254.00	7388.00	<u>420.00</u>
302	670.00	1015.00	1498.00	7820.00	7924.00	6310.00	<u>256.00</u>
303	-1	-1	1697.00	5796.00	7972.00	6144.00	<u>885.00</u>
304	1295.00	2204.00	1575.00	7264.00	9609.00	7854.00	<u>392.00</u>
305	664.00	980.00	1727.00	7328.00	8150.00	6493.00	<u>253.00</u>
306	917.00	1744.00	1670.00	7176.00	9350.00	7581.00	<u>375.00</u>
307	1153.00	2024.00	1799.00	7245.00	10524.00	8946.00	<u>253.00</u>
308	664.00	972.00	1756.00	7461.00	3103.00	2675.00	<u>254.00</u>
309	-1	-1	-1	-1	-1	-1	<u>361.00</u>
310	1569.00	2567.00	1690.00	7446.00	11833.00	9937.00	<u>422.00</u>
311	1037.00	1954.00	1864.00	7769.00	11589.00	9660.00	<u>409.00</u>
312	-1	-1	-1	-1	-1	-1	<u>635.00</u>
313	1742.00	2456.00	1778.00	7064.00	11405.00	9922.00	<u>253.00</u>
314	926.00	1779.00	1598.00	7267.00	11251.00	9948.00	<u>263.00</u>

315	660.00	976.00	1538.00	7092.00	6207.00	4933.00	<u>261.00</u>
316	807.00	1526.00	1793.00	7564.00	6366.00	4998.00	<u>260.00</u>
317	791.00	1552.00	1521.00	7218.00	4570.00	3410.00	<u>257.00</u>
318	665.00	981.00	1781.00	7076.00	9014.00	7371.00	<u>259.00</u>
319	672.00	1015.00	1860.00	6761.00	4346.00	3359.00	<u>370.00</u>
320	668.00	972.00	1585.00	7413.00	3415.00	2808.00	<u>369.00</u>
321	1732.00	2579.00	1489.00	7235.00	10503.00	8837.00	<u>368.00</u>
322	2030.00	2945.00	1572.00	7396.00	11462.00	9662.00	<u>370.00</u>
323	1421.00	2400.00	1855.00	7038.00	10987.00	9251.00	<u>365.00</u>
324	-1	-1	-1	-1	-1	-1	<u>342.00</u>
325	1345.00	2368.00	1734.00	7410.00	11688.00	9893.00	<u>350.00</u>
326	666.00	983.00	1657.00	7391.00	3933.00	3162.00	<u>255.00</u>
327	1432.00	2335.00	1776.00	7474.00	11616.00	9841.00	<u>255.00</u>
328	-1	-1	-1	-1	-1	-1	<u>369.00</u>
329	806.00	1464.00	1554.00	7486.00	10407.00	8657.00	<u>257.00</u>
330	1159.00	1980.00	1759.00	7052.00	12014.00	9800.00	<u>251.00</u>
331	1347.00	2767.00	2193.00	7187.00	10537.00	8684.00	<u>486.00</u>
332	-1	-1	-1	-1	-1	-1	<u>468.00</u>
333	1346.00	2247.00	1663.00	7246.00	4167.00	3245.00	<u>255.00</u>
334	1490.00	2413.00	1560.00	7141.00	9021.00	7710.00	<u>256.00</u>
335	1141.00	2046.00	1864.00	7715.00	9295.00	7867.00	<u>256.00</u>
336	-1	-1	-1	-1	-1	-1	<u>-1</u>
337	804.00	1543.00	1580.00	7277.00	5630.00	4650.00	<u>469.00</u>
338	1583.00	2893.00	1991.00	7223.00	10688.00	8745.00	<u>606.00</u>
339	-1	-1	-1	-1	-1	-1	<u>450.00</u>
340	-1	-1	-1	-1	-1	-1	<u>443.00</u>
341	909.00	1781.00	1635.00	6935.00	10324.00	9156.00	<u>374.00</u>
342	669.00	986.00	1841.00	7156.00	4748.00	3820.00	<u>348.00</u>
343	1424.00	2355.00	1715.00	7233.00	11088.00	9865.00	<u>254.00</u>
344	800.00	1583.00	1606.00	-1	10138.00	8856.00	<u>535.00</u>
345	1423.00	2318.00	-1	5783.00	-1	-1	<u>535.00</u>
346	1663.00	2562.00	1709.00	7440.00	10037.00	8925.00	<u>452.00</u>
347	1431.00	2240.00	1809.00	5755.00	11016.00	9784.00	<u>349.00</u>
348	1040.00	1924.00	1952.00	7893.00	7253.00	6099.00	<u>404.00</u>
349	828.00	1534.00	-1	-1	-1	-1	<u>563.00</u>
350	1349.00	2261.00	1579.00	7268.00	9663.00	8373.00	<u>375.00</u>
351	1264.00	2059.00	1711.00	7430.00	7923.00	6642.00	<u>390.00</u>
352	1264.00	2225.00	1659.00	7258.00	10445.00	9236.00	<u>253.00</u>
353	1030.00	2019.00	1549.00	7307.00	9885.00	8680.00	<u>361.00</u>
354	-1	-1	-1	-1	-1	-1	<u>377.00</u>
355	-1	-1	-1	-1	-1	-1	<u>506.00</u>
356	-1	-1	-1	-1	-1	-1	<u>1118.00</u>
357	<u>681.00</u>	993.00	1576.00	7275.00	6751.00	5171.00	<u>697.00</u>

Best Results:

hr\_sre\_dacc:  $346/357 = 96.92\%$ ;

dace\_trc:  $1/357 = 0.28\%$ ;

ce\_src:  $7/357 = 1.96\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: -363.08%

dace\_src: -444.59%

dace\_trc: -1582.88%

ce\_trc: -436.87%

ce\_swc: -3528.25%

ce\_cc: -2824.50%

Table 9: Experiment Data

bleeding-history-phenotype							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	4398.00	8422.00	2559.00	34825.00	57121.00	58085.00	<u>372.00</u>
2	2984.00	7351.00	2625.00	35290.00	39327.00	38833.00	<u>1246.00</u>
3	2479.00	9042.00	3699.00	34181.00	50927.00	49694.00	<u>447.00</u>
4	1902.00	5517.00	2600.00	34119.00	27220.00	28045.00	<u>372.00</u>
5	978.00	2113.00	2484.00	35966.00	11520.00	11750.00	<u>405.00</u>
6	1923.00	6509.00	3191.00	36608.00	44263.00	44197.00	<u>434.00</u>
7	2161.00	10641.00	4247.00	35242.00	42099.00	42017.00	<u>654.00</u>
8	5397.00	18969.00	4686.00	35589.00	70742.00	69686.00	<u>795.00</u>
9	1215.00	3487.00	2504.00	36081.00	4959.00	5404.00	<u>374.00</u>
10	1666.00	5033.00	2561.00	35360.00	48980.00	49222.00	<u>392.00</u>
11	2390.00	8347.00	3076.00	35770.00	41747.00	42399.00	<u>580.00</u>
12	1820.00	5284.00	2613.00	35877.00	38874.00	39917.00	<u>402.00</u>
13	3028.00	7373.00	2528.00	34971.00	60131.00	62100.00	<u>412.00</u>
14	1994.00	6238.00	3505.00	34620.00	31789.00	31249.00	<u>405.00</u>
15	3419.00	7252.00	3319.00	34783.00	61591.00	60981.00	<u>399.00</u>
16	3211.00	11385.00	3424.00	35342.00	61179.00	60749.00	<u>515.00</u>
17	4374.00	12955.00	4370.00	35014.00	61688.00	61954.00	<u>346.00</u>
18	1736.00	5833.00	3042.00	35185.00	15423.00	15890.00	<u>332.00</u>
19	2801.00	9900.00	3200.00	35418.00	38657.00	38508.00	<u>323.00</u>

20	5327.00	8362.00	2741.00	35401.00	60251.00	59719.00	293.00
21	2615.00	9161.00	3515.00	35841.00	53330.00	52901.00	363.00
22	1646.00	6913.00	3362.00	35565.00	22128.00	22946.00	498.00
23	2466.00	8259.00	3203.00	34391.00	37327.00	37652.00	518.00
24	1508.00	4041.00	2423.00	35351.00	50472.00	49382.00	467.00
25	2380.00	5449.00	2463.00	35162.00	52293.00	51383.00	277.00
26	2129.00	8108.00	2639.00	36858.00	32278.00	32839.00	305.00
27	2163.00	8500.00	3437.00	35892.00	41820.00	41332.00	364.00
28	2818.00	6200.00	2482.00	34399.00	40364.00	40517.00	513.00
29	1498.00	4013.00	2523.00	35353.00	29265.00	29223.00	396.00
30	3633.00	15439.00	5303.00	35549.00	65418.00	70414.00	680.00
31	3078.00	7384.00	2644.00	36262.00	36702.00	37223.00	541.00
32	2983.00	16213.00	4257.00	36673.00	41824.00	41837.00	1227.00
33	2062.00	5380.00	2620.00	35778.00	13231.00	13635.00	534.00
34	2624.00	9989.00	3393.00	36579.00	41601.00	42045.00	495.00
35	1480.00	3905.00	2565.00	36010.00	10206.00	10656.00	329.00
36	3973.00	8342.00	2614.00	35897.00	58491.00	59446.00	352.00
37	2847.00	6563.00	2628.00	34794.00	39037.00	39344.00	277.00
38	1357.00	3367.00	2394.00	34916.00	45604.00	45895.00	358.00
39	4313.00	18796.00	6031.00	35956.00	73444.00	74618.00	1100.00
40	1319.00	3013.00	2378.00	35756.00	37073.00	37496.00	367.00
41	2641.00	10650.00	4316.00	35080.00	41623.00	41457.00	1532.00
42	4725.00	13104.00	3680.00	35033.00	75798.00	73137.00	472.00
43	2699.00	10753.00	3416.00	34744.00	50468.00	49895.00	714.00
44	6068.00	29674.00	7413.00	36371.00	74021.00	72161.00	3197.00
45	2486.00	7532.00	2600.00	35679.00	17052.00	17878.00	656.00
46	2408.00	10868.00	4279.00	35705.00	41683.00	42736.00	767.00
47	2140.00	8489.00	3443.00	35538.00	41130.00	41983.00	404.00
48	961.00	2073.00	2419.00	35474.00	8812.00	9540.00	324.00
49	3486.00	15746.00	4135.00	35506.00	42528.00	42776.00	412.00
50	1147.00	2921.00	2747.00	34846.00	8902.00	9374.00	311.00
51	2284.00	11954.00	5352.00	35890.00	41548.00	41401.00	601.00
52	2269.00	5799.00	2569.00	35488.00	40658.00	41541.00	317.00
53	3499.00	8582.00	3342.00	35863.00	62314.00	61593.00	935.00
54	2038.00	5268.00	2606.00	34998.00	30907.00	31555.00	338.00
55	5107.00	14481.00	3368.00	35848.00	54191.00	55443.00	347.00
56	2117.00	5770.00	2824.00	34704.00	48538.00	49455.00	354.00
57	2245.00	7284.00	3360.00	35389.00	41888.00	41851.00	444.00
58	1642.00	5345.00	2793.00	35786.00	49143.00	49299.00	368.00
59	2917.00	6990.00	2654.00	36581.00	37084.00	37866.00	729.00
60	2237.00	9037.00	3185.00	33904.00	31281.00	31143.00	1020.00
61	3165.00	8157.00	2490.00	36190.00	37799.00	38389.00	769.00
62	3482.00	10721.00	3428.00	36011.00	72015.00	71053.00	901.00

63	3457.00	14622.00	3654.00	35231.00	64240.00	62462.00	<u>915.00</u>
64	1750.00	4417.00	2483.00	36036.00	48686.00	47789.00	<u>519.00</u>
65	3157.00	11620.00	4040.00	34721.00	52080.00	52074.00	<u>878.00</u>
66	4725.00	9269.00	2869.00	36956.00	61299.00	62297.00	<u>511.00</u>
67	4313.00	8603.00	2630.00	35286.00	61929.00	60991.00	<u>437.00</u>
68	3033.00	7022.00	2520.00	35051.00	40288.00	40095.00	<u>278.00</u>
69	1898.00	5209.00	2725.00	34675.00	63062.00	61200.00	<u>293.00</u>
70	2033.00	5218.00	2699.00	34562.00	41541.00	41225.00	<u>318.00</u>
71	1777.00	5610.00	2710.00	35351.00	22279.00	22421.00	<u>302.00</u>
72	3872.00	12385.00	3589.00	35211.00	44553.00	44846.00	<u>306.00</u>
73	3494.00	7576.00	2426.00	35315.00	49536.00	50642.00	<u>295.00</u>
74	4009.00	19357.00	4776.00	34426.00	64737.00	70417.00	<u>1501.00</u>
75	3722.00	15353.00	4241.00	35079.00	48282.00	49331.00	<u>1495.00</u>
76	2767.00	9486.00	3409.00	35941.00	51946.00	53291.00	<u>633.00</u>
77	3672.00	12638.00	3790.00	36103.00	59057.00	58649.00	<u>638.00</u>
78	1636.00	4267.00	2490.00	35411.00	22411.00	22355.00	<u>302.00</u>
79	4469.00	10980.00	3259.00	34810.00	49698.00	50065.00	<u>317.00</u>
80	3117.00	7457.00	2283.00	33937.00	48233.00	48963.00	<u>295.00</u>
81	2653.00	16382.00	4961.00	35279.00	51999.00	51686.00	<u>673.00</u>
82	1647.00	4358.00	2487.00	35779.00	48954.00	49528.00	<u>382.00</u>
83	4302.00	8845.00	2519.00	34341.00	61018.00	60369.00	<u>403.00</u>
84	2142.00	5698.00	2574.00	34356.00	41900.00	41673.00	<u>325.00</u>
85	3001.00	7516.00	2573.00	35557.00	52692.00	52879.00	<u>687.00</u>
86	3115.00	7507.00	2763.00	35016.00	39086.00	40022.00	<u>413.00</u>
87	2630.00	8921.00	3753.00	36987.00	56018.00	56237.00	<u>1489.00</u>

Best Results:

hr\_sre\_dacc: 87/87 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 494.84%

dace\_src: 1630.36%

dace\_trc: 573.23%

ce\_trc: 7779.22%

ce\_swc: 9436.47%

ce\_cc: 9480.62%

Table 10: Experiment Data

brucellosis-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	2170.00	3766.00	1496.00	9133.00	4640.00	4845.00	<u>367.00</u>
2	660.00	1205.00	1526.00	9113.00	3519.00	3663.00	<u>448.00</u>
3	1148.00	2875.00	1785.00	9196.00	13356.00	13519.00	<u>358.00</u>
4	911.00	2729.00	2060.00	9245.00	14699.00	14096.00	<u>415.00</u>
5	903.00	2254.00	1543.00	9122.00	10104.00	10098.00	<u>357.00</u>
6	1201.00	3302.00	2221.00	9115.00	16938.00	16011.00	<u>416.00</u>
7	1139.00	3741.00	2217.00	9168.00	15040.00	14739.00	<u>412.00</u>
8	790.00	1826.00	1677.00	9186.00	9450.00	9498.00	<u>499.00</u>
9	663.00	1196.00	1875.00	9287.00	6047.00	6276.00	<u>491.00</u>
10	660.00	1197.00	1757.00	9259.00	4621.00	4769.00	<u>446.00</u>
11	658.00	1192.00	1715.00	9203.00	4638.00	4783.00	<u>448.00</u>
12	660.00	1195.00	1885.00	9091.00	4740.00	4868.00	<u>448.00</u>
13	667.00	1193.00	1444.00	9087.00	3153.00	3310.00	<u>441.00</u>
14	662.00	1197.00	1495.00	9372.00	4747.00	4808.00	<u>445.00</u>
15	659.00	1191.00	1796.00	9115.00	4862.00	4813.00	<u>445.00</u>
16	657.00	1197.00	1461.00	9186.00	4651.00	4804.00	<u>449.00</u>
17	663.00	1187.00	1486.00	9067.00	3349.00	3578.00	<u>446.00</u>
18	661.00	1190.00	1496.00	9248.00	4757.00	4912.00	<u>445.00</u>
19	664.00	1192.00	1509.00	9235.00	4592.00	4858.00	<u>448.00</u>
20	660.00	1185.00	1724.00	8991.00	1071.00	1368.00	<u>449.00</u>
21	658.00	1199.00	1709.00	9036.00	4674.00	4707.00	<u>447.00</u>
22	660.00	1198.00	1832.00	9165.00	4780.00	4769.00	<u>450.00</u>
23	663.00	1193.00	1541.00	9265.00	4800.00	4918.00	<u>447.00</u>
24	660.00	1198.00	1703.00	9507.00	4618.00	5023.00	<u>447.00</u>
25	666.00	1195.00	1762.00	9285.00	4659.00	4913.00	<u>452.00</u>
26	662.00	1193.00	1602.00	9209.00	4802.00	4850.00	<u>448.00</u>
27	664.00	1189.00	1656.00	9134.00	4838.00	4740.00	<u>451.00</u>
28	660.00	1193.00	1535.00	8953.00	4721.00	4874.00	<u>445.00</u>
29	664.00	1200.00	1480.00	9117.00	4676.00	4807.00	<u>446.00</u>
30	661.00	1194.00	1731.00	9353.00	4698.00	4942.00	<u>445.00</u>
31	656.00	1196.00	1790.00	9214.00	4493.00	4629.00	<u>441.00</u>
32	662.00	1190.00	1765.00	9356.00	4693.00	4858.00	<u>452.00</u>
33	662.00	1195.00	1684.00	9177.00	4699.00	5042.00	<u>446.00</u>
34	655.00	1196.00	1718.00	9218.00	4846.00	4929.00	<u>443.00</u>
35	660.00	1200.00	1567.00	9095.00	4674.00	4825.00	<u>448.00</u>
36	660.00	1200.00	1724.00	9278.00	1153.00	1478.00	<u>450.00</u>
37	663.00	1199.00	1521.00	9281.00	4498.00	4690.00	<u>450.00</u>
38	658.00	1208.00	1493.00	9270.00	4658.00	4820.00	<u>447.00</u>
39	661.00	1196.00	1507.00	9237.00	4800.00	4907.00	<u>446.00</u>

40	657.00	1193.00	1746.00	9194.00	4782.00	4876.00	<u>448.00</u>
41	660.00	1202.00	1562.00	9103.00	4652.00	4751.00	<u>447.00</u>
42	665.00	1193.00	1504.00	9195.00	4738.00	4864.00	<u>453.00</u>
43	663.00	1196.00	1777.00	9145.00	4744.00	4883.00	<u>449.00</u>
44	657.00	1181.00	1663.00	9216.00	1971.00	2286.00	<u>446.00</u>
45	662.00	1195.00	1541.00	9234.00	4618.00	4937.00	<u>448.00</u>
46	662.00	1198.00	1448.00	9317.00	4725.00	4684.00	<u>450.00</u>
47	659.00	1194.00	1773.00	9230.00	4728.00	4890.00	<u>441.00</u>
48	659.00	1219.00	1687.00	9126.00	1650.00	1950.00	<u>448.00</u>
49	657.00	1192.00	1802.00	9315.00	4717.00	4936.00	<u>450.00</u>
50	663.00	1185.00	1565.00	9156.00	4745.00	4914.00	<u>455.00</u>
51	660.00	1197.00	1673.00	9147.00	4826.00	4731.00	<u>451.00</u>
52	670.00	1202.00	1493.00	9178.00	2897.00	2953.00	<u>450.00</u>
53	655.00	1197.00	1744.00	9222.00	3944.00	3897.00	<u>451.00</u>
54	664.00	1200.00	1659.00	9339.00	4751.00	4802.00	<u>452.00</u>
55	662.00	1189.00	1407.00	9149.00	4826.00	4913.00	<u>454.00</u>
56	662.00	1192.00	1619.00	9105.00	4631.00	4696.00	<u>452.00</u>
57	662.00	1185.00	1655.00	9435.00	4874.00	4838.00	<u>447.00</u>
58	659.00	1183.00	1725.00	9306.00	4644.00	4936.00	<u>454.00</u>
59	659.00	1190.00	1499.00	9207.00	4733.00	4819.00	<u>448.00</u>
60	669.00	1194.00	1715.00	9194.00	4722.00	4918.00	<u>445.00</u>
61	654.00	1199.00	1733.00	9357.00	4706.00	4894.00	<u>448.00</u>
62	661.00	1203.00	1517.00	9214.00	4848.00	4787.00	<u>440.00</u>
63	662.00	1189.00	1409.00	9252.00	4622.00	5009.00	<u>448.00</u>
64	663.00	1200.00	1548.00	9472.00	4712.00	4910.00	<u>450.00</u>
65	660.00	1185.00	1505.00	9140.00	4827.00	4883.00	<u>449.00</u>
66	664.00	1192.00	1527.00	9237.00	4716.00	4919.00	<u>446.00</u>
67	651.00	1199.00	1896.00	9168.00	2666.00	2732.00	<u>450.00</u>
68	660.00	1201.00	1569.00	9248.00	2202.00	2545.00	<u>443.00</u>
69	654.00	1187.00	1469.00	9014.00	4815.00	4967.00	<u>443.00</u>
70	667.00	1195.00	1754.00	9188.00	4660.00	4909.00	<u>451.00</u>
71	659.00	1198.00	1509.00	9280.00	4748.00	4919.00	<u>453.00</u>
72	660.00	1198.00	1769.00	9060.00	4754.00	4898.00	<u>450.00</u>
73	656.00	1188.00	1777.00	9105.00	1317.00	1607.00	<u>447.00</u>
74	666.00	1195.00	1496.00	9257.00	4840.00	4935.00	<u>450.00</u>
75	663.00	1192.00	1689.00	9174.00	4773.00	4820.00	<u>452.00</u>
76	664.00	1185.00	1683.00	9444.00	4737.00	4799.00	<u>457.00</u>
77	660.00	1183.00	1671.00	9027.00	4725.00	4946.00	<u>452.00</u>
78	731.00	1181.00	1872.00	9195.00	4591.00	4905.00	<u>452.00</u>
79	659.00	1194.00	1782.00	9201.00	4888.00	4939.00	<u>447.00</u>
80	655.00	1184.00	1822.00	9158.00	4804.00	4870.00	<u>443.00</u>
81	662.00	1180.00	1800.00	9168.00	4745.00	4789.00	<u>452.00</u>
82	660.00	1192.00	1543.00	9326.00	4870.00	4909.00	<u>450.00</u>



83	657.00	1198.00	1688.00	9239.00	4806.00	4831.00	<u>452.00</u>
84	658.00	1188.00	1769.00	9244.00	4817.00	4834.00	<u>448.00</u>
85	652.00	1195.00	1660.00	9237.00	1906.00	2216.00	<u>447.00</u>
86	661.00	1184.00	1809.00	9320.00	4771.00	4957.00	<u>453.00</u>
87	657.00	1185.00	1684.00	9445.00	3716.00	3839.00	<u>454.00</u>
88	657.00	1183.00	1802.00	9219.00	4552.00	4689.00	<u>452.00</u>
89	656.00	1190.00	1708.00	9377.00	4738.00	4868.00	<u>452.00</u>
90	657.00	1195.00	1465.00	9262.00	4593.00	4660.00	<u>449.00</u>
91	664.00	1193.00	1587.00	9287.00	4793.00	4865.00	<u>447.00</u>
92	658.00	1185.00	1541.00	9385.00	4102.00	4311.00	<u>450.00</u>
93	663.00	1195.00	1524.00	9365.00	4780.00	5066.00	<u>450.00</u>
94	658.00	1195.00	1445.00	9397.00	4599.00	5027.00	<u>444.00</u>
95	662.00	1191.00	1646.00	9175.00	4722.00	4785.00	<u>448.00</u>
96	658.00	1195.00	1693.00	9178.00	4698.00	4870.00	<u>448.00</u>
97	657.00	1189.00	1765.00	9191.00	4519.00	4585.00	<u>444.00</u>
98	652.00	1184.00	1653.00	9310.00	4607.00	4729.00	<u>442.00</u>
99	661.00	1185.00	1414.00	9302.00	1894.00	2241.00	<u>447.00</u>
100	666.00	1189.00	1474.00	9206.00	4741.00	4924.00	<u>449.00</u>
101	659.00	1194.00	1486.00	9308.00	4144.00	4244.00	<u>451.00</u>
102	653.00	1193.00	1421.00	9278.00	4862.00	4818.00	<u>450.00</u>
103	662.00	1186.00	1683.00	9265.00	4846.00	4970.00	<u>449.00</u>
104	661.00	1176.00	1369.00	9072.00	4626.00	4817.00	<u>446.00</u>
105	656.00	1181.00	1520.00	9207.00	2881.00	3159.00	<u>451.00</u>
106	662.00	1192.00	1715.00	9275.00	4797.00	5391.00	<u>447.00</u>
107	663.00	1194.00	1611.00	9309.00	4712.00	4950.00	<u>444.00</u>
108	657.00	1202.00	1725.00	9345.00	4736.00	4873.00	<u>449.00</u>
109	654.00	1187.00	1750.00	9365.00	4684.00	4829.00	<u>457.00</u>
110	661.00	1198.00	1548.00	9381.00	4779.00	4814.00	<u>451.00</u>
111	662.00	1180.00	1575.00	9269.00	4754.00	4903.00	<u>444.00</u>
112	657.00	1186.00	1626.00	9143.00	4827.00	4861.00	<u>456.00</u>
113	655.00	1209.00	1712.00	9241.00	1824.00	2005.00	<u>447.00</u>
114	654.00	1202.00	1747.00	9228.00	1010.00	1224.00	<u>451.00</u>
115	653.00	1192.00	1511.00	9118.00	4789.00	4930.00	<u>449.00</u>
116	663.00	1193.00	1435.00	9409.00	2838.00	3094.00	<u>451.00</u>
117	662.00	1194.00	1670.00	9054.00	4744.00	4861.00	<u>442.00</u>
118	664.00	1180.00	1530.00	9159.00	4897.00	4691.00	<u>444.00</u>
119	660.00	1184.00	1742.00	9067.00	4644.00	4890.00	<u>446.00</u>
120	658.00	1180.00	1473.00	9364.00	4746.00	4961.00	<u>453.00</u>
121	667.00	1182.00	1614.00	9223.00	3254.00	3565.00	<u>441.00</u>
122	656.00	1198.00	1888.00	9181.00	4710.00	4795.00	<u>453.00</u>
123	660.00	1182.00	1853.00	9335.00	4705.00	4900.00	<u>452.00</u>
124	659.00	1182.00	1536.00	9204.00	4778.00	4905.00	<u>448.00</u>
125	659.00	1188.00	1493.00	9075.00	4475.00	4554.00	<u>448.00</u>

126	656.00	1186.00	1650.00	9283.00	4955.00	4718.00	<u>446.00</u>
127	659.00	1186.00	1531.00	9313.00	4623.00	4780.00	<u>447.00</u>
128	657.00	1207.00	1613.00	9062.00	1892.00	2124.00	<u>451.00</u>
129	654.00	1199.00	1814.00	9428.00	4694.00	4915.00	<u>452.00</u>
130	655.00	1196.00	1813.00	9190.00	4721.00	4808.00	<u>451.00</u>
131	657.00	1197.00	1500.00	9198.00	4770.00	4974.00	<u>447.00</u>
132	654.00	1200.00	1655.00	9223.00	4766.00	4851.00	<u>447.00</u>
133	659.00	1200.00	1495.00	9217.00	2683.00	2871.00	<u>449.00</u>
134	655.00	1206.00	1795.00	9126.00	4596.00	4892.00	<u>442.00</u>
135	662.00	1188.00	1699.00	9038.00	3566.00	3587.00	<u>443.00</u>
136	663.00	1193.00	1803.00	9293.00	4759.00	4794.00	<u>453.00</u>
137	652.00	1189.00	1705.00	9303.00	2102.00	2352.00	<u>449.00</u>
138	666.00	1185.00	1658.00	9199.00	4802.00	4907.00	<u>444.00</u>
139	656.00	1197.00	1542.00	9603.00	4734.00	4832.00	<u>441.00</u>
140	660.00	1204.00	1536.00	9157.00	4743.00	4880.00	<u>448.00</u>
141	656.00	1181.00	1776.00	9005.00	4521.00	4637.00	<u>447.00</u>
142	663.00	1198.00	1835.00	9178.00	4714.00	4889.00	<u>453.00</u>
143	662.00	1185.00	1679.00	9093.00	4746.00	5014.00	<u>448.00</u>
144	661.00	1193.00	1569.00	9310.00	4744.00	4729.00	<u>456.00</u>
145	659.00	1179.00	1668.00	9406.00	1002.00	1261.00	<u>459.00</u>
146	656.00	1219.00	1492.00	9282.00	4233.00	4206.00	<u>455.00</u>
147	655.00	1194.00	1703.00	9229.00	4845.00	4910.00	<u>449.00</u>
148	666.00	1196.00	1463.00	9179.00	4720.00	4866.00	<u>454.00</u>
149	664.00	1193.00	1679.00	9272.00	4625.00	4840.00	<u>449.00</u>
150	662.00	1191.00	1750.00	9118.00	4695.00	4916.00	<u>443.00</u>
151	660.00	1186.00	1748.00	9225.00	3289.00	3245.00	<u>444.00</u>
152	661.00	1193.00	1812.00	9320.00	4683.00	4954.00	<u>452.00</u>
153	661.00	1197.00	1748.00	9104.00	4763.00	4936.00	<u>451.00</u>
154	665.00	1194.00	1660.00	9256.00	4637.00	5000.00	<u>445.00</u>
155	663.00	1188.00	1485.00	9176.00	4717.00	4814.00	<u>449.00</u>
156	655.00	1194.00	1549.00	9272.00	3927.00	3948.00	<u>448.00</u>
157	663.00	1196.00	1731.00	9436.00	4705.00	4932.00	<u>451.00</u>
158	662.00	1203.00	1486.00	9199.00	4812.00	4960.00	<u>449.00</u>
159	657.00	1204.00	1657.00	9199.00	4826.00	4789.00	<u>448.00</u>
160	658.00	1199.00	1520.00	9162.00	4814.00	4896.00	<u>449.00</u>
161	660.00	1196.00	1655.00	9262.00	4816.00	5020.00	<u>442.00</u>
162	654.00	1190.00	1748.00	9326.00	4813.00	4932.00	<u>451.00</u>
163	663.00	1191.00	1484.00	9030.00	4719.00	4689.00	<u>445.00</u>
164	659.00	1184.00	1505.00	9118.00	4812.00	4873.00	<u>443.00</u>
165	658.00	1182.00	1421.00	9060.00	4743.00	4933.00	<u>451.00</u>
166	661.00	1195.00	1436.00	9284.00	4733.00	4986.00	<u>442.00</u>
167	664.00	1205.00	1471.00	9195.00	1424.00	1676.00	<u>452.00</u>
168	655.00	1203.00	1592.00	9368.00	4782.00	4882.00	<u>451.00</u>

169	658.00	1200.00	1553.00	9294.00	2310.00	2571.00	<u>448.00</u>
170	662.00	1199.00	1580.00	9092.00	3370.00	3451.00	<u>442.00</u>
171	661.00	1209.00	1426.00	9358.00	4734.00	4734.00	<u>449.00</u>
172	661.00	1193.00	1553.00	9269.00	4691.00	4916.00	<u>447.00</u>
173	663.00	1183.00	1655.00	9119.00	4710.00	4738.00	<u>449.00</u>
174	654.00	1182.00	1799.00	9350.00	4776.00	4843.00	<u>453.00</u>
175	661.00	1193.00	1523.00	9006.00	4740.00	4891.00	<u>451.00</u>
176	657.00	1200.00	1478.00	9371.00	4829.00	4935.00	<u>446.00</u>
177	654.00	1195.00	1765.00	9084.00	4705.00	4882.00	<u>452.00</u>
178	657.00	1195.00	1576.00	9043.00	3888.00	4060.00	<u>450.00</u>
179	664.00	1198.00	1500.00	9151.00	4682.00	4800.00	<u>448.00</u>
180	655.00	1191.00	1653.00	9165.00	4779.00	4796.00	<u>453.00</u>
181	658.00	1181.00	1665.00	9263.00	4835.00	4913.00	<u>445.00</u>
182	665.00	1196.00	1522.00	9232.00	4772.00	4794.00	<u>442.00</u>
183	664.00	1198.00	1423.00	9243.00	4713.00	4824.00	<u>446.00</u>
184	663.00	1209.00	1482.00	9349.00	4620.00	4833.00	<u>448.00</u>
185	662.00	1190.00	1799.00	9001.00	4743.00	4658.00	<u>447.00</u>
186	659.00	1195.00	1624.00	8996.00	1940.00	2305.00	<u>457.00</u>
187	<u>665.00</u>	1212.00	1783.00	9272.00	2018.00	2286.00	1304.00
188	660.00	1188.00	1657.00	9171.00	4728.00	4946.00	<u>452.00</u>
189	655.00	1199.00	1761.00	9196.00	3508.00	3566.00	<u>448.00</u>
190	654.00	1197.00	1594.00	9314.00	4753.00	4960.00	<u>448.00</u>
191	656.00	1194.00	1550.00	9089.00	4805.00	4896.00	<u>450.00</u>
192	661.00	1205.00	1533.00	9317.00	4723.00	4748.00	<u>446.00</u>
193	664.00	1214.00	1685.00	9294.00	4295.00	4273.00	<u>454.00</u>
194	663.00	1184.00	1680.00	9334.00	4773.00	5120.00	<u>449.00</u>
195	659.00	1196.00	1600.00	9344.00	4793.00	4791.00	<u>454.00</u>
196	669.00	1195.00	1794.00	9214.00	4721.00	4964.00	<u>443.00</u>
197	657.00	1192.00	1838.00	9074.00	4784.00	4745.00	<u>446.00</u>
198	657.00	1202.00	1673.00	9182.00	4747.00	4859.00	<u>446.00</u>
199	653.00	1195.00	1667.00	9138.00	4701.00	4881.00	<u>444.00</u>
200	664.00	1213.00	1581.00	9195.00	2826.00	3196.00	<u>455.00</u>
201	651.00	1189.00	1738.00	9306.00	4749.00	4710.00	<u>445.00</u>
202	665.00	1199.00	1570.00	9193.00	4626.00	4822.00	<u>448.00</u>
203	662.00	1201.00	1718.00	9221.00	4311.00	4563.00	<u>449.00</u>
204	657.00	1196.00	1823.00	9482.00	4677.00	4968.00	<u>450.00</u>
205	659.00	1186.00	1643.00	9136.00	4670.00	4787.00	<u>446.00</u>
206	661.00	1194.00	1776.00	9079.00	4715.00	4986.00	<u>445.00</u>
207	656.00	1209.00	1491.00	9163.00	4704.00	5010.00	<u>455.00</u>
208	661.00	1192.00	1445.00	9124.00	4636.00	4673.00	<u>444.00</u>
209	656.00	1179.00	1449.00	9440.00	4607.00	4710.00	<u>446.00</u>
210	653.00	1196.00	1626.00	9112.00	4628.00	4851.00	<u>444.00</u>
211	663.00	1199.00	1848.00	9227.00	4779.00	4975.00	<u>449.00</u>

212	660.00	1193.00	1697.00	9310.00	4641.00	4816.00	<u>452.00</u>
213	659.00	1190.00	1762.00	9135.00	1013.00	463.00	<u>445.00</u>
214	658.00	1194.00	1778.00	9150.00	4771.00	4910.00	<u>447.00</u>
215	663.00	1201.00	1824.00	9363.00	4589.00	4985.00	<u>445.00</u>
216	651.00	1194.00	1600.00	9253.00	4661.00	4832.00	<u>448.00</u>
217	657.00	1201.00	1580.00	9034.00	4681.00	4971.00	<u>450.00</u>
218	661.00	1189.00	1718.00	9131.00	4832.00	4844.00	<u>447.00</u>
219	662.00	1197.00	1470.00	9349.00	4727.00	4825.00	<u>451.00</u>
220	659.00	1192.00	1686.00	9252.00	4831.00	4858.00	<u>448.00</u>
221	657.00	1188.00	1759.00	9271.00	4739.00	4915.00	<u>446.00</u>
222	659.00	1204.00	1552.00	9269.00	4812.00	4816.00	<u>450.00</u>
223	656.00	1181.00	1772.00	9386.00	4648.00	4946.00	<u>444.00</u>
224	676.00	1185.00	1449.00	9330.00	4721.00	4817.00	<u>453.00</u>
225	663.00	1190.00	1653.00	9109.00	4693.00	4871.00	<u>452.00</u>
226	662.00	1195.00	1453.00	9225.00	4684.00	5005.00	<u>445.00</u>
227	659.00	1216.00	1873.00	9134.00	2184.00	2353.00	<u>452.00</u>
228	1293.00	3668.00	1880.00	9394.00	16375.00	15924.00	<u>418.00</u>
229	1422.00	4293.00	1997.00	9142.00	16492.00	16067.00	<u>416.00</u>
230	1241.00	3616.00	1873.00	9348.00	14918.00	14948.00	<u>406.00</u>
231	1186.00	4062.00	1923.00	9101.00	11094.00	11188.00	<u>413.00</u>
232	1897.00	5741.00	2165.00	9252.00	16264.00	15953.00	<u>424.00</u>
233	1611.00	4783.00	1952.00	8983.00	10274.00	10136.00	<u>412.00</u>
234	1326.00	4204.00	2040.00	9052.00	13679.00	13668.00	<u>420.00</u>
235	1135.00	3646.00	1983.00	9079.00	16336.00	15630.00	<u>419.00</u>
236	1002.00	2801.00	2175.00	9081.00	14975.00	14957.00	<u>413.00</u>
237	1525.00	3599.00	1993.00	9123.00	15710.00	15786.00	<u>413.00</u>
238	2022.00	5056.00	1882.00	9372.00	15653.00	15661.00	<u>418.00</u>
239	1684.00	4666.00	2220.00	9016.00	13778.00	13715.00	<u>427.00</u>
240	1878.00	5227.00	1967.00	9020.00	13759.00	13325.00	<u>425.00</u>
241	1123.00	3068.00	2210.00	9043.00	10512.00	10550.00	<u>420.00</u>
242	1199.00	3745.00	2115.00	9156.00	15066.00	15144.00	<u>405.00</u>
243	1196.00	3203.00	1926.00	9319.00	11667.00	11910.00	<u>415.00</u>
244	1660.00	4529.00	2146.00	9166.00	10271.00	10260.00	<u>411.00</u>
245	1820.00	5081.00	2033.00	9234.00	13121.00	12656.00	<u>421.00</u>
246	1666.00	4695.00	2057.00	9230.00	10230.00	10132.00	<u>412.00</u>
247	1840.00	5002.00	2234.00	9225.00	13318.00	12576.00	<u>410.00</u>
248	1695.00	4934.00	2031.00	9227.00	11434.00	11565.00	<u>419.00</u>
249	1544.00	3851.00	2183.00	9121.00	12082.00	11866.00	<u>419.00</u>
250	1248.00	4251.00	2024.00	9134.00	15202.00	14859.00	<u>412.00</u>
251	1078.00	2826.00	2101.00	9061.00	15147.00	14799.00	<u>417.00</u>
252	1209.00	3729.00	2149.00	9208.00	15540.00	15328.00	<u>410.00</u>
253	1402.00	3784.00	2059.00	8986.00	15658.00	15308.00	<u>418.00</u>
254	1182.00	3999.00	2106.00	9122.00	11182.00	11103.00	<u>413.00</u>

255	1069.00	3649.00	1951.00	9123.00	15406.00	15196.00	<u>406.00</u>
256	789.00	2322.00	2239.00	9175.00	5159.00	5390.00	<u>410.00</u>
257	1438.00	4763.00	1835.00	9272.00	16408.00	16009.00	<u>409.00</u>
258	1387.00	4690.00	1837.00	9396.00	16071.00	15501.00	<u>414.00</u>
259	1081.00	3378.00	1980.00	9302.00	16088.00	15970.00	<u>415.00</u>
260	1308.00	3850.00	2006.00	9150.00	16507.00	15770.00	<u>414.00</u>
261	1263.00	3991.00	1920.00	9298.00	15312.00	15315.00	<u>417.00</u>
262	1410.00	4401.00	2115.00	9257.00	14978.00	14825.00	<u>418.00</u>
263	1237.00	4196.00	1693.00	9375.00	11898.00	11948.00	<u>415.00</u>
264	1359.00	3792.00	1974.00	9151.00	14602.00	14661.00	<u>414.00</u>
265	-1	-1	-1	-1	-1	-1	-1
266	-1	-1	-1	-1	-1	-1	-1
267	-1	-1	-1	-1	-1	-1	-1
268	-1	-1	-1	-1	-1	-1	-1
269	-1	-1	-1	-1	-1	-1	-1
270	-1	-1	-1	-1	-1	-1	-1
271	-1	-1	-1	-1	-1	-1	-1
272	-1	-1	-1	-1	-1	-1	-1
273	-1	-1	-1	-1	-1	-1	-1
274	-1	-1	-1	-1	-1	-1	-1
275	-1	-1	-1	-1	-1	-1	-1
276	-1	-1	-1	-1	-1	-1	-1
277	-1	-1	-1	-1	-1	-1	-1
278	-1	-1	-1	-1	-1	-1	-1
279	-1	-1	-1	-1	-1	-1	-1
280	-1	-1	-1	-1	-1	-1	-1
281	-1	-1	-1	-1	-1	-1	-1
282	-1	-1	-1	-1	-1	-1	-1
283	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc: 263/283 = 92.93%;

ce\_src: 1/283 = 0.35%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 78.67%

dace\_src: 266.54%

dace\_trc: 270.96%

ce\_trc: 1853.04%

ce\_swc: 1174.81%

ce\_cc: 1192.83%

Table 11: Experiment Data

cell-behavior-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	-1	-1	-1	-1	-1	-1	-1
2	-1	-1	-1	-1	-1	-1	-1
3	-1	-1	-1	-1	-1	-1	-1
4	-1	-1	-1	-1	-1	-1	-1
5	-1	-1	-1	-1	-1	-1	-1
6	-1	-1	-1	-1	-1	-1	-1
7	-1	-1	-1	-1	-1	-1	-1

Best Results:

- None

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 100.00%

dace\_src: 100.00%

dace\_trc: 100.00%

ce\_trc: 100.00%

ce\_swc: 100.00%

ce\_cc: 100.00%

Table 12: Experiment Data

cell-type							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	2377.00	11442.00	2083.00	21813.00	49295.00	46855.00	<u>383.00</u>
2	2272.00	12949.00	2289.00	22296.00	49710.00	47195.00	<u>551.00</u>
3	1520.00	7064.00	1436.00	21995.00	51283.00	47598.00	<u>301.00</u>
4	2206.00	12929.00	2146.00	21727.00	50427.00	47014.00	<u>300.00</u>
5	1988.00	11263.00	2111.00	22116.00	39131.00	38521.00	<u>311.00</u>
6	1401.00	10166.00	2099.00	22134.00	19393.00	19660.00	<u>425.00</u>

7	1022.00	5964.00	1917.00	21388.00	15531.00	15827.00	<u>421.00</u>
8	1495.00	9912.00	2238.00	21852.00	51212.00	47537.00	<u>434.00</u>
9	<u>1285.00</u>	6941.00	1446.00	21705.00	19903.00	19871.00	1716.00
10	1153.00	6392.00	1990.00	21763.00	39516.00	38826.00	<u>477.00</u>
11	1135.00	5674.00	1538.00	22102.00	49764.00	47283.00	<u>304.00</u>
12	1044.00	4655.00	1763.00	22513.00	34372.00	33845.00	<u>288.00</u>
13	755.00	2003.00	1693.00	21846.00	6342.00	6551.00	<u>296.00</u>
14	750.00	2008.00	1778.00	21500.00	6550.00	6486.00	<u>297.00</u>
15	1125.00	4844.00	1620.00	22003.00	43747.00	48439.00	<u>302.00</u>
16	961.00	3671.00	1629.00	22077.00	49463.00	48664.00	<u>303.00</u>
17	1019.00	4698.00	1533.00	22357.00	33918.00	33782.00	<u>312.00</u>
18	1430.00	9030.00	2061.00	22023.00	48344.00	46444.00	<u>439.00</u>

Best Results:

hr\_sre\_dacc: 17/18 = 94.44%;

ce\_src: 1/18 = 5.56%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 273.97%

dace\_src: 1825.91%

dace\_trc: 406.69%

ce\_trc: 5956.36%

ce\_swc: 10075.76%

ce\_cc: 9817.53%

Table 13: Experiment Data

cereal-plant-gross-anatomy							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1053.00	5001.00	1934.00	15934.00	29355.00	28789.00	<u>313.00</u>
2	974.00	4389.00	1720.00	15463.00	15998.00	16403.00	<u>316.00</u>

Best Results:

hr\_sre\_dacc: 2/2 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 222.32%

dace\_src: 1393.34%

dace\_trc: 481.10%

ce\_trc: 4892.04%

ce\_swc: 7120.63%

ce\_cc: 7094.29%

Table 14: Experiment Data

cognitive-paradigm-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1921.00	2788.00	2438.00	6824.00	34196.00	33789.00	2567.00
2	2042.00	3531.00	2804.00	6893.00	8005.00	8174.00	606.00
3	2212.00	3582.00	3276.00	6817.00	36817.00	35685.00	543.00
4	2495.00	3873.00	3291.00	7053.00	24987.00	24665.00	533.00
5	1846.00	3063.00	3390.00	6767.00	25782.00	26069.00	525.00
6	2528.00	4032.00	3418.00	6793.00	23456.00	23162.00	525.00
7	2728.00	4328.00	3030.00	7035.00	35090.00	34279.00	544.00
8	2840.00	3958.00	3130.00	6680.00	37502.00	36292.00	531.00
9	1990.00	3621.00	3632.00	6868.00	26518.00	26249.00	536.00
10	1611.00	2387.00	2530.00	6942.00	14502.00	14521.00	447.00
11	3370.00	4718.00	2507.00	6929.00	32078.00	31825.00	603.00
12	1509.00	2173.00	2262.00	6834.00	11551.00	11759.00	454.00
13	1116.00	1730.00	2486.00	6971.00	3737.00	4062.00	964.00
14	2620.00	3969.00	3377.00	7071.00	32480.00	32718.00	643.00
15	2589.00	4486.00	3962.00	7131.00	32829.00	32339.00	865.00
16	2903.00	4605.00	3189.00	7055.00	25083.00	24872.00	1121.00
17	2692.00	3815.00	3315.00	6811.00	29682.00	30536.00	755.00
18	2767.00	3850.00	3373.00	6817.00	23792.00	23874.00	529.00
19	2497.00	3739.00	3111.00	6818.00	32154.00	32047.00	540.00
20	2103.00	3567.00	3184.00	6814.00	22252.00	22012.00	547.00
21	2021.00	3499.00	3555.00	6747.00	18062.00	17825.00	548.00
22	2377.00	3841.00	3355.00	6863.00	35954.00	35525.00	538.00
23	1839.00	3363.00	3183.00	6799.00	26220.00	26690.00	521.00
24	1636.00	2810.00	2686.00	6831.00	4733.00	5147.00	538.00
25	3004.00	4245.00	3479.00	6723.00	37544.00	36547.00	531.00
26	2970.00	4292.00	3358.00	6830.00	36129.00	35839.00	541.00
27	2789.00	3974.00	3178.00	6886.00	36530.00	36494.00	532.00
28	2806.00	3967.00	3138.00	6968.00	36553.00	36181.00	535.00



29	3026.00	4372.00	3522.00	6729.00	24907.00	24464.00	<u>541.00</u>
30	1465.00	2639.00	3406.00	6870.00	6825.00	6981.00	<u>536.00</u>
31	2228.00	3908.00	3184.00	6848.00	24501.00	24930.00	<u>526.00</u>
32	1785.00	3088.00	3532.00	6949.00	22397.00	22383.00	<u>541.00</u>
33	1848.00	3343.00	3047.00	7017.00	29824.00	29189.00	<u>526.00</u>
34	2404.00	3535.00	3437.00	6966.00	32638.00	31911.00	<u>540.00</u>
35	2858.00	4205.00	3272.00	6765.00	24073.00	23411.00	<u>524.00</u>
36	1697.00	3167.00	3353.00	6775.00	26744.00	27072.00	<u>530.00</u>
37	1453.00	2447.00	3305.00	6864.00	16348.00	16496.00	<u>534.00</u>
38	2660.00	3587.00	2916.00	6922.00	25350.00	25049.00	<u>537.00</u>
39	2489.00	4013.00	2677.00	6881.00	30189.00	30736.00	<u>538.00</u>
40	1871.00	3364.00	3508.00	6987.00	37667.00	36157.00	<u>531.00</u>
41	1981.00	3588.00	3438.00	6723.00	39037.00	37727.00	<u>538.00</u>
42	2624.00	3998.00	3419.00	6855.00	24868.00	25172.00	<u>533.00</u>
43	2094.00	3490.00	3224.00	6744.00	25301.00	24599.00	<u>547.00</u>
44	1483.00	2532.00	3427.00	6716.00	2935.00	3262.00	<u>543.00</u>
45	2269.00	3281.00	3345.00	6777.00	20438.00	20378.00	<u>539.00</u>
46	-1	-1	-1	-1	-1	-1	-1
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1
52	-1	-1	-1	-1	-1	-1	-1
53	-1	-1	-1	-1	-1	-1	-1
54	-1	-1	-1	-1	-1	-1	-1
55	-1	-1	-1	-1	-1	-1	-1
56	-1	-1	-1	-1	-1	-1	-1
57	-1	-1	-1	-1	-1	-1	-1
58	-1	-1	-1	-1	-1	-1	-1
59	-1	-1	-1	-1	-1	-1	-1
60	-1	-1	-1	-1	-1	-1	-1
61	-1	-1	-1	-1	-1	-1	-1
62	-1	-1	-1	-1	-1	-1	-1
63	-1	-1	-1	-1	-1	-1	-1
64	-1	-1	-1	-1	-1	-1	-1
65	-1	-1	-1	-1	-1	-1	-1
66	-1	-1	-1	-1	-1	-1	-1
67	-1	-1	-1	-1	-1	-1	-1

Best Results:

ce\_src:  $1/67 = 1.49\%$ ;

hr\_sre\_dacc:  $44/67 = 65.67\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 234.13%

dace\_src: 387.85%

dace\_trc: 345.39%

ce\_trc: 779.47%

ce\_swc: 3006.36%

ce\_cc: 2981.57%

Table 15: Experiment Data

computer-based-patient-record-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1656.00	4812.00	2484.00	20236.00	35314.00	34871.00	399.00
2	1859.00	5384.00	2309.00	20049.00	36819.00	37661.00	395.00
3	2270.00	5181.00	2489.00	20475.00	32554.00	33129.00	383.00
4	1979.00	5451.00	2526.00	20373.00	24894.00	26618.00	390.00
5	1794.00	4934.00	2450.00	19874.00	34707.00	33630.00	404.00
6	1431.00	3999.00	2403.00	20733.00	23229.00	25492.00	389.00
7	1480.00	4537.00	2436.00	20303.00	30766.00	30920.00	390.00
8	2516.00	6171.00	2570.00	20480.00	34487.00	34159.00	392.00
9	2032.00	5019.00	2412.00	21158.00	29618.00	29345.00	386.00
10	1789.00	4648.00	2448.00	19825.00	33153.00	32232.00	385.00
11	1902.00	6460.00	3061.00	20252.00	24250.00	25232.00	376.00
12	1921.00	4856.00	2494.00	19857.00	34110.00	34031.00	388.00
13	1580.00	4958.00	2494.00	20556.00	31207.00	30256.00	401.00
14	1719.00	4167.00	2541.00	22245.00	30548.00	31631.00	401.00
15	1436.00	4149.00	2452.00	20382.00	24377.00	23567.00	395.00
16	1856.00	4861.00	2581.00	20442.00	32243.00	32607.00	381.00
17	1474.00	3845.00	2218.00	20571.00	26729.00	26240.00	389.00
18	1791.00	5052.00	2521.00	20117.00	23345.00	24240.00	385.00
19	1786.00	5069.00	2264.00	20417.00	27728.00	28447.00	405.00
20	1546.00	4996.00	2541.00	20787.00	24214.00	24152.00	395.00
21	1780.00	4975.00	2540.00	20273.00	27935.00	31729.00	391.00
22	1790.00	5235.00	2351.00	21433.00	27306.00	26224.00	400.00
23	1008.00	2537.00	2410.00	20799.00	26759.00	27907.00	393.00
24	1340.00	3080.00	1944.00	20875.00	29319.00	30120.00	347.00
25	1463.00	3926.00	2408.00	20447.00	34672.00	33017.00	387.00
26	1340.00	3995.00	2453.00	20264.00	31890.00	32132.00	395.00

27	1582.00	3715.00	2533.00	20806.00	33628.00	33666.00	<u>390.00</u>
28	1722.00	5248.00	2568.00	21382.00	33445.00	34140.00	<u>399.00</u>
29	1960.00	4857.00	2439.00	21476.00	25201.00	26291.00	<u>393.00</u>
30	1340.00	3919.00	2388.00	20585.00	32725.00	34414.00	<u>387.00</u>
31	1004.00	2727.00	2367.00	20875.00	10085.00	10170.00	<u>390.00</u>
32	2014.00	5926.00	2616.00	20318.00	35376.00	35177.00	<u>386.00</u>
33	1799.00	4388.00	2371.00	21553.00	34440.00	35160.00	<u>395.00</u>
34	1343.00	3829.00	2329.00	20444.00	35139.00	33603.00	<u>391.00</u>
35	1437.00	4005.00	2422.00	21595.00	35360.00	34201.00	<u>392.00</u>
36	1895.00	5633.00	2567.00	20433.00	34007.00	33024.00	<u>397.00</u>
37	1784.00	4710.00	2485.00	20075.00	32576.00	32259.00	<u>393.00</u>
38	1575.00	4358.00	2391.00	20386.00	25907.00	27337.00	<u>401.00</u>
39	1862.00	5166.00	2399.00	20359.00	28536.00	27289.00	<u>326.00</u>
40	1686.00	5334.00	2462.00	20284.00	31443.00	31061.00	<u>387.00</u>
41	1131.00	2566.00	2082.00	20467.00	12775.00	12846.00	<u>364.00</u>
42	2362.00	7527.00	2367.00	22320.00	36354.00	34830.00	<u>516.00</u>
43	1129.00	2381.00	2134.00	20001.00	28378.00	30807.00	<u>455.00</u>
44	-1	-1	3323.00	23660.00	-1	-1	<u>432.00</u>
45	1968.00	4336.00	1977.00	20511.00	21014.00	22668.00	<u>431.00</u>
46	2597.00	4235.00	2241.00	20399.00	35598.00	34005.00	<u>440.00</u>
47	2040.00	3702.00	-1	-1	33140.00	35210.00	<u>1320.00</u>
48	-1	-1	-1	-1	-1	-1	<u>566.00</u>
49	-1	-1	-1	-1	-1	-1	<u>560.00</u>
50	-1	-1	-1	-1	-1	-1	<u>14427.00</u>
51	1873.00	4365.00	-1	20700.00	-1	-1	<u>951.00</u>
52	<u>1490.00</u>	4284.00	2667.00	20877.00	26669.00	26974.00	<u>33526.00</u>
53	1011.00	2364.00	1948.00	20168.00	21705.00	20642.00	<u>387.00</u>
54	1507.00	3336.00	1948.00	20244.00	19963.00	20091.00	<u>394.00</u>
55	1144.00	2577.00	1813.00	19957.00	19564.00	20164.00	<u>386.00</u>
56	1145.00	2390.00	2044.00	19940.00	19452.00	20271.00	<u>393.00</u>
57	997.00	2332.00	1814.00	19810.00	19444.00	19659.00	<u>386.00</u>
58	1350.00	3122.00	1902.00	20212.00	19437.00	20305.00	<u>389.00</u>
59	1152.00	2315.00	1876.00	20439.00	19605.00	22812.00	<u>404.00</u>
60	1012.00	2371.00	1836.00	21343.00	19786.00	20835.00	<u>576.00</u>
61	1006.00	2355.00	1873.00	20710.00	19506.00	22657.00	<u>391.00</u>
62	1236.00	2700.00	1983.00	20289.00	19840.00	20409.00	<u>381.00</u>
63	1260.00	2683.00	2092.00	20155.00	19978.00	20604.00	<u>388.00</u>
64	1013.00	2368.00	1774.00	21446.00	21084.00	20592.00	<u>391.00</u>
65	1141.00	2370.00	1765.00	20193.00	19682.00	21580.00	<u>387.00</u>
66	1140.00	2355.00	1822.00	20904.00	19617.00	19970.00	<u>391.00</u>
67	1150.00	2797.00	1950.00	20056.00	19248.00	21243.00	<u>388.00</u>
68	1334.00	3301.00	2071.00	20341.00	19365.00	20150.00	<u>385.00</u>
69	1142.00	2357.00	1945.00	19991.00	19469.00	20512.00	<u>384.00</u>

70	1262.00	2606.00	3116.00	20478.00	19708.00	20653.00	<u>382.00</u>
71	1150.00	2755.00	2073.00	21028.00	19537.00	20265.00	<u>387.00</u>
72	1013.00	2112.00	2027.00	21264.00	19630.00	20501.00	<u>380.00</u>
73	1361.00	2991.00	1811.00	20119.00	20153.00	22802.00	<u>389.00</u>
74	1025.00	2131.00	1864.00	21791.00	19509.00	19937.00	<u>387.00</u>
75	1247.00	2514.00	2033.00	20854.00	19826.00	20351.00	<u>392.00</u>
76	1262.00	2691.00	1866.00	20277.00	19432.00	20703.00	<u>388.00</u>
77	1253.00	2683.00	1961.00	22581.00	20617.00	19666.00	<u>385.00</u>
78	1349.00	2929.00	1972.00	22237.00	21693.00	20051.00	<u>409.00</u>
79	1251.00	2907.00	1953.00	20554.00	19339.00	21688.00	<u>420.00</u>
80	1354.00	2892.00	1867.00	19967.00	19108.00	20424.00	<u>396.00</u>
81	1010.00	2118.00	1872.00	20279.00	19767.00	20446.00	<u>403.00</u>
82	1131.00	2744.00	2005.00	20880.00	19453.00	20660.00	<u>583.00</u>
83	1485.00	3126.00	1870.00	22320.00	19483.00	22067.00	<u>575.00</u>
84	1140.00	2517.00	1934.00	19735.00	20227.00	20885.00	<u>582.00</u>
85	1150.00	2829.00	1930.00	21672.00	19670.00	20491.00	<u>406.00</u>
86	1146.00	2739.00	2414.00	20256.00	20991.00	20099.00	<u>423.00</u>
87	850.00	1488.00	1810.00	20102.00	4669.00	4825.00	<u>384.00</u>
88	1014.00	2379.00	2330.00	20391.00	19658.00	20741.00	<u>386.00</u>
89	1004.00	2360.00	1804.00	19909.00	20662.00	20531.00	<u>390.00</u>
90	1361.00	2907.00	1828.00	21164.00	19733.00	20632.00	<u>405.00</u>
91	1136.00	2802.00	2015.00	19967.00	19615.00	22867.00	<u>391.00</u>
92	1142.00	2397.00	2086.00	20415.00	19905.00	20785.00	<u>384.00</u>
93	1018.00	2356.00	1720.00	20389.00	19523.00	20815.00	<u>385.00</u>
94	1021.00	2348.00	1773.00	20910.00	19574.00	21670.00	<u>587.00</u>
95	1148.00	2590.00	1829.00	21046.00	20300.00	20577.00	<u>585.00</u>
96	-1	-1	-1	-1	-1	-1	<u>670.00</u>
97	1147.00	2582.00	2068.00	19826.00	20892.00	20989.00	<u>581.00</u>
98	1152.00	2371.00	2135.00	20840.00	19670.00	20228.00	<u>579.00</u>
99	1003.00	2335.00	1900.00	20798.00	19418.00	20261.00	<u>410.00</u>
100	1145.00	2611.00	1808.00	20359.00	19181.00	20177.00	<u>397.00</u>
101	1360.00	2961.00	1980.00	20435.00	19788.00	20297.00	<u>405.00</u>
102	1150.00	2750.00	1916.00	19927.00	19460.00	20448.00	<u>388.00</u>
103	1013.00	2122.00	2408.00	21352.00	19850.00	21620.00	<u>577.00</u>
104	1009.00	2763.00	1822.00	20783.00	9985.00	10495.00	<u>576.00</u>
105	1243.00	2822.00	1852.00	21087.00	20100.00	20395.00	<u>382.00</u>
106	1018.00	2091.00	1862.00	20444.00	19400.00	20071.00	<u>591.00</u>
107	1011.00	2366.00	1797.00	21071.00	19386.00	20298.00	<u>576.00</u>
108	1649.00	3256.00	1927.00	19848.00	19792.00	20466.00	<u>586.00</u>
109	1154.00	2764.00	2006.00	19969.00	19381.00	20449.00	<u>382.00</u>
110	1149.00	2578.00	1868.00	20423.00	19773.00	22113.00	<u>429.00</u>
111	-1	-1	-1	20352.00	-1	-1	<u>670.00</u>
112	857.00	1539.00	1781.00	20187.00	11479.00	11837.00	<u>581.00</u>

113	1140.00	2350.00	1880.00	20691.00	19531.00	20078.00	<u>387.00</u>
114	1007.00	2357.00	1957.00	20107.00	19798.00	20012.00	<u>590.00</u>
115	1259.00	2782.00	1770.00	20177.00	19944.00	20589.00	<u>378.00</u>
116	1006.00	2109.00	2030.00	21484.00	19807.00	21253.00	<u>382.00</u>
117	1150.00	2389.00	1972.00	20297.00	19536.00	20951.00	<u>382.00</u>
118	1016.00	2082.00	2152.00	20341.00	21368.00	22742.00	<u>381.00</u>
119	1144.00	2395.00	1732.00	20102.00	19533.00	20855.00	<u>581.00</u>
120	1008.00	2133.00	1856.00	20274.00	19784.00	20979.00	<u>387.00</u>
121	1243.00	2769.00	1966.00	19743.00	19790.00	20797.00	<u>589.00</u>
122	1012.00	2256.00	1923.00	20864.00	20622.00	20369.00	<u>385.00</u>
123	1011.00	2344.00	2030.00	20584.00	19730.00	20508.00	<u>578.00</u>
124	1359.00	2979.00	1784.00	20331.00	21859.00	20205.00	<u>406.00</u>
125	1333.00	3075.00	1781.00	20473.00	20060.00	21132.00	<u>410.00</u>
126	1255.00	2824.00	1886.00	19832.00	19248.00	21271.00	<u>385.00</u>
127	1011.00	2126.00	2414.00	20202.00	20309.00	21105.00	<u>398.00</u>
128	1042.00	2108.00	1988.00	21137.00	19732.00	20684.00	<u>397.00</u>
129	1244.00	2816.00	1808.00	20696.00	19462.00	21097.00	<u>384.00</u>
130	1135.00	2596.00	1786.00	20992.00	19834.00	19949.00	<u>384.00</u>
131	1012.00	2080.00	2045.00	22257.00	19468.00	19969.00	<u>585.00</u>
132	1151.00	2637.00	1775.00	20341.00	20058.00	20074.00	<u>588.00</u>
133	1143.00	2589.00	1910.00	22431.00	19424.00	20093.00	<u>382.00</u>
134	1020.00	2342.00	1945.00	20672.00	19070.00	20194.00	<u>388.00</u>
135	1145.00	2574.00	1858.00	20135.00	19784.00	20475.00	<u>382.00</u>
136	1251.00	2961.00	1809.00	21056.00	19569.00	20443.00	<u>384.00</u>
137	1143.00	2765.00	1777.00	20170.00	19916.00	21068.00	<u>394.00</u>
138	1157.00	2393.00	2017.00	20268.00	19733.00	20606.00	<u>581.00</u>
139	1153.00	2370.00	1997.00	20626.00	19734.00	20126.00	<u>587.00</u>
140	1018.00	2309.00	1894.00	20372.00	20062.00	21301.00	<u>383.00</u>
141	1332.00	3014.00	1943.00	20302.00	19629.00	20397.00	<u>389.00</u>
142	1010.00	2099.00	1876.00	20606.00	19597.00	20136.00	<u>389.00</u>
143	1008.00	2399.00	1978.00	20180.00	18552.00	21172.00	<u>386.00</u>
144	1145.00	2400.00	1838.00	21325.00	19399.00	21236.00	<u>580.00</u>
145	1011.00	2125.00	1813.00	21028.00	19240.00	20380.00	<u>599.00</u>
146	1007.00	2151.00	1861.00	20327.00	17728.00	18764.00	<u>617.00</u>
147	1257.00	2788.00	1886.00	20013.00	19909.00	19884.00	<u>580.00</u>
148	1011.00	2369.00	1960.00	20851.00	20093.00	20088.00	<u>576.00</u>
149	1010.00	2364.00	1692.00	22084.00	19782.00	20862.00	<u>410.00</u>
150	1004.00	2347.00	1787.00	22501.00	19616.00	19976.00	<u>382.00</u>
151	1005.00	2283.00	2175.00	21369.00	19455.00	20831.00	<u>426.00</u>
152	1955.00	3897.00	1896.00	20419.00	19627.00	21016.00	<u>604.00</u>
153	1229.00	4069.00	2355.00	20040.00	18818.00	19966.00	<u>586.00</u>
154	1011.00	2359.00	2110.00	20649.00	19624.00	20697.00	<u>408.00</u>
155	1142.00	2759.00	1984.00	20675.00	19408.00	20317.00	<u>388.00</u>

156	1001.00	2358.00	1879.00	19735.00	19565.00	20061.00	<u>583.00</u>
157	1005.00	2027.00	1980.00	20658.00	19520.00	20587.00	<u>392.00</u>
158	1006.00	2123.00	1827.00	20860.00	19617.00	20379.00	<u>582.00</u>
159	1245.00	2496.00	1888.00	20020.00	19614.00	21834.00	<u>413.00</u>
160	1010.00	2360.00	1879.00	22598.00	19398.00	20132.00	<u>420.00</u>
161	1356.00	3095.00	1875.00	20173.00	19489.00	20532.00	<u>577.00</u>
162	859.00	1529.00	1843.00	21588.00	8754.00	9079.00	<u>571.00</u>
163	1140.00	2786.00	1947.00	20195.00	19436.00	20197.00	<u>402.00</u>
164	1519.00	3530.00	1950.00	20184.00	19525.00	21251.00	<u>397.00</u>
165	1144.00	2306.00	2070.00	22461.00	19569.00	20731.00	<u>392.00</u>
166	1410.00	3847.00	2656.00	22070.00	7106.00	7561.00	<u>466.00</u>
167	1151.00	2804.00	2102.00	20776.00	11872.00	12296.00	<u>737.00</u>
168	1511.00	3533.00	2091.00	22638.00	11822.00	12397.00	<u>733.00</u>
169	1148.00	2428.00	2039.00	21123.00	12026.00	12394.00	<u>683.00</u>
170	1152.00	2787.00	2021.00	20800.00	11761.00	12430.00	<u>706.00</u>
171	1156.00	2652.00	2118.00	20998.00	11873.00	12349.00	<u>744.00</u>
172	1367.00	2939.00	2601.00	21202.00	11818.00	12550.00	<u>739.00</u>
173	1135.00	2650.00	2043.00	20701.00	11728.00	12388.00	<u>777.00</u>
174	1139.00	2668.00	2601.00	20540.00	11743.00	12418.00	<u>907.00</u>
175	1153.00	2712.00	2130.00	20823.00	11821.00	12525.00	<u>684.00</u>
176	1252.00	2620.00	1917.00	20830.00	11807.00	12376.00	<u>701.00</u>
177	1156.00	2383.00	2232.00	20986.00	11785.00	11850.00	<u>704.00</u>
178	1148.00	2431.00	2115.00	21411.00	11796.00	12229.00	<u>702.00</u>
179	1274.00	2697.00	2017.00	20979.00	11793.00	12211.00	<u>706.00</u>
180	1261.00	2683.00	2114.00	21286.00	11818.00	12199.00	<u>681.00</u>
181	1155.00	2419.00	1982.00	22639.00	11745.00	12332.00	<u>731.00</u>
182	1366.00	2920.00	1986.00	21063.00	11929.00	12141.00	<u>687.00</u>
183	1258.00	2771.00	1919.00	20415.00	11722.00	12192.00	<u>663.00</u>
184	1370.00	2926.00	2102.00	21772.00	11913.00	12199.00	<u>685.00</u>
185	1257.00	2796.00	2185.00	23274.00	11729.00	12091.00	<u>737.00</u>
186	1147.00	2802.00	2069.00	20758.00	11784.00	12232.00	<u>739.00</u>
187	1357.00	2829.00	2099.00	20863.00	11746.00	12252.00	<u>756.00</u>
188	1142.00	2587.00	1936.00	20953.00	11836.00	12206.00	<u>735.00</u>
189	1347.00	3107.00	1824.00	20946.00	11828.00	12162.00	<u>712.00</u>
190	1259.00	2806.00	2063.00	21174.00	11712.00	12158.00	<u>743.00</u>
191	1263.00	2818.00	2017.00	21310.00	11637.00	12232.00	<u>691.00</u>
192	1154.00	2598.00	2074.00	21080.00	11709.00	12139.00	<u>682.00</u>
193	1263.00	2802.00	1991.00	21167.00	11773.00	12282.00	<u>757.00</u>
194	1273.00	2799.00	2216.00	21293.00	11917.00	12274.00	<u>743.00</u>
195	1149.00	2795.00	2035.00	20985.00	11778.00	12212.00	<u>740.00</u>
196	1279.00	2914.00	1933.00	20988.00	11682.00	12383.00	<u>952.00</u>
197	1443.00	3193.00	2019.00	23402.00	11839.00	12071.00	<u>936.00</u>
198	1146.00	2603.00	1995.00	22991.00	11827.00	12155.00	<u>927.00</u>

199	1269.00	2628.00	1847.00	21304.00	11756.00	12010.00	<u>750.00</u>
200	1253.00	2617.00	2120.00	21011.00	11951.00	12107.00	<u>673.00</u>
201	862.00	1522.00	1817.00	21963.00	4635.00	4861.00	<u>679.00</u>
202	1159.00	2509.00	1624.00	21140.00	11915.00	12222.00	<u>679.00</u>
203	1141.00	2369.00	2141.00	20990.00	11787.00	12266.00	<u>713.00</u>
204	1461.00	3295.00	2006.00	23190.00	11751.00	12141.00	<u>762.00</u>
205	1154.00	2287.00	1858.00	20852.00	11816.00	12192.00	<u>740.00</u>
206	1140.00	2471.00	2019.00	20685.00	11924.00	12277.00	<u>753.00</u>
207	1156.00	2591.00	1960.00	20377.00	11800.00	12129.00	<u>683.00</u>
208	1150.00	2380.00	1993.00	21218.00	11896.00	12107.00	<u>926.00</u>
209	1238.00	2646.00	2163.00	22715.00	11715.00	12219.00	<u>909.00</u>
210	-1	-1	-1	-1	-1	-1	<u>1010.00</u>
211	1250.00	2704.00	2091.00	21131.00	11641.00	12413.00	<u>940.00</u>
212	1268.00	2706.00	1977.00	20931.00	11939.00	12517.00	<u>927.00</u>
213	1150.00	2775.00	2092.00	20785.00	11984.00	12424.00	<u>699.00</u>
214	1265.00	2681.00	2155.00	20800.00	11824.00	12376.00	<u>701.00</u>
215	1381.00	3320.00	2060.00	20897.00	11833.00	12358.00	<u>734.00</u>
216	1157.00	2395.00	2042.00	20959.00	11883.00	12373.00	<u>688.00</u>
217	1154.00	2758.00	2133.00	20736.00	11895.00	12437.00	<u>899.00</u>
218	1245.00	3449.00	2106.00	22645.00	10113.00	10530.00	<u>918.00</u>
219	1145.00	2455.00	2252.00	21224.00	11859.00	12284.00	<u>741.00</u>
220	1145.00	2653.00	2349.00	21034.00	11867.00	12238.00	<u>931.00</u>
221	1155.00	2625.00	2095.00	21114.00	11950.00	12339.00	<u>896.00</u>
222	1487.00	3563.00	1896.00	21213.00	11947.00	12406.00	<u>970.00</u>
223	1256.00	2594.00	2152.00	21275.00	11991.00	12219.00	<u>679.00</u>
224	1257.00	2951.00	2103.00	20931.00	11930.00	12374.00	<u>753.00</u>
225	-1	-1	-1	20253.00	-1	-1	<u>1013.00</u>
226	1129.00	2305.00	1998.00	20678.00	11559.00	11851.00	<u>922.00</u>
227	1127.00	2792.00	1976.00	20621.00	11825.00	12190.00	<u>743.00</u>
228	1149.00	2405.00	2205.00	20695.00	11976.00	12312.00	<u>934.00</u>
229	1242.00	2803.00	2123.00	21531.00	11886.00	12493.00	<u>676.00</u>
230	1146.00	2403.00	2104.00	22411.00	11817.00	12385.00	<u>721.00</u>
231	1263.00	2592.00	2274.00	21308.00	11561.00	12426.00	<u>742.00</u>
232	1148.00	2572.00	2117.00	20781.00	11968.00	12183.00	<u>698.00</u>
233	1130.00	2403.00	2273.00	20925.00	11733.00	12365.00	<u>972.00</u>
234	1148.00	2857.00	2258.00	21310.00	11757.00	12172.00	<u>716.00</u>
235	1367.00	2789.00	1981.00	21131.00	11922.00	12429.00	<u>910.00</u>
236	1162.00	2782.00	2387.00	20225.00	11874.00	12511.00	<u>669.00</u>
237	1158.00	2387.00	1975.00	20131.00	11878.00	12400.00	<u>913.00</u>
238	1265.00	2719.00	2158.00	20849.00	11892.00	12412.00	<u>667.00</u>
239	1268.00	2891.00	2053.00	21039.00	11952.00	12316.00	<u>734.00</u>
240	1364.00	2911.00	2129.00	20982.00	11887.00	12405.00	<u>666.00</u>
241	1134.00	2299.00	2150.00	21076.00	11915.00	12324.00	<u>742.00</u>

242	1152.00	2603.00	2127.00	21884.00	11834.00	12335.00	<u>742.00</u>
243	1364.00	3091.00	2036.00	21251.00	12306.00	12304.00	<u>723.00</u>
244	1274.00	2999.00	2175.00	20932.00	11875.00	12295.00	<u>695.00</u>
245	1139.00	2594.00	2180.00	20298.00	11961.00	12306.00	<u>919.00</u>
246	1261.00	2976.00	1784.00	21021.00	11929.00	12267.00	<u>940.00</u>
247	1148.00	2645.00	2004.00	23448.00	11854.00	12328.00	<u>744.00</u>
248	1150.00	2393.00	1787.00	23263.00	11830.00	12448.00	<u>745.00</u>
249	1243.00	2791.00	1843.00	21566.00	11689.00	12279.00	<u>742.00</u>
250	1358.00	3339.00	2035.00	21158.00	11916.00	12283.00	<u>744.00</u>
251	1273.00	2959.00	2082.00	21331.00	11887.00	12209.00	<u>700.00</u>
252	1144.00	2424.00	1986.00	21116.00	12027.00	12214.00	<u>919.00</u>
253	1262.00	2918.00	2132.00	22613.00	11923.00	12240.00	<u>898.00</u>
254	1149.00	2655.00	2161.00	19885.00	11821.00	12264.00	<u>727.00</u>
255	1327.00	2907.00	2074.00	23029.00	11885.00	12297.00	<u>743.00</u>
256	1149.00	2790.00	1994.00	21163.00	11874.00	12288.00	<u>731.00</u>
257	1160.00	2315.00	2000.00	20362.00	11824.00	12258.00	<u>761.00</u>
258	1250.00	2512.00	1893.00	20495.00	11909.00	12016.00	<u>938.00</u>
259	1152.00	2587.00	1883.00	20973.00	11857.00	12137.00	<u>917.00</u>
260	1151.00	2374.00	1872.00	21550.00	11763.00	12440.00	<u>924.00</u>
261	1372.00	2792.00	2161.00	23388.00	11872.00	12461.00	<u>920.00</u>
262	1154.00	2848.00	1757.00	20193.00	11973.00	12427.00	<u>908.00</u>
263	1158.00	2764.00	1847.00	20988.00	11944.00	12503.00	<u>752.00</u>
264	1148.00	2781.00	2065.00	20243.00	11782.00	12312.00	<u>732.00</u>
265	1162.00	2386.00	2051.00	20612.00	11940.00	12465.00	<u>752.00</u>
266	1510.00	3156.00	1931.00	20940.00	11818.00	12518.00	<u>961.00</u>
267	1381.00	3096.00	1938.00	21010.00	11770.00	12290.00	<u>924.00</u>
268	1136.00	2785.00	2057.00	21155.00	11763.00	12331.00	<u>740.00</u>
269	1257.00	2865.00	2011.00	20962.00	12332.00	12389.00	<u>732.00</u>
270	1157.00	2596.00	2110.00	21145.00	11949.00	12321.00	<u>907.00</u>
271	1152.00	2285.00	2107.00	23188.00	11699.00	12363.00	<u>709.00</u>
272	1149.00	2752.00	2155.00	20661.00	11806.00	12286.00	<u>924.00</u>
273	1154.00	2761.00	1827.00	21781.00	11736.00	12403.00	<u>730.00</u>
274	1136.00	2396.00	1910.00	20695.00	11876.00	12232.00	<u>685.00</u>
275	1346.00	2903.00	2165.00	21040.00	11872.00	12385.00	<u>931.00</u>
276	1009.00	2117.00	1857.00	20655.00	8736.00	9134.00	<u>917.00</u>
277	1253.00	2536.00	2011.00	21534.00	11749.00	12369.00	<u>750.00</u>
278	1530.00	3367.00	2380.00	21384.00	11897.00	12400.00	<u>748.00</u>
279	1266.00	2610.00	2011.00	22510.00	11844.00	12313.00	<u>743.00</u>
280	-1	-1	-1	-1	-1	-1	<u>537.00</u>
281	1570.00	3365.00	1801.00	20315.00	11176.00	11303.00	<u>446.00</u>
282	-1	-1	-1	-1	-1	-1	<u>990.00</u>
283	-1	-1	-1	-1	-1	-1	<u>4840.00</u>
284	1564.00	4459.00	2635.00	20606.00	30852.00	31725.00	<u>385.00</u>



285	2048.00	3990.00	2031.00	20661.00	26255.00	26728.00	<u>429.00</u>
286	1134.00	2373.00	1991.00	21562.00	18623.00	19583.00	<u>358.00</u>
287	2137.00	4333.00	1897.00	20827.00	11507.00	12172.00	<u>298.00</u>
288	<u>1001.00</u>	2341.00	1865.00	20706.00	10018.00	10350.00	<u>1619.00</u>
289	2909.00	5043.00	1859.00	22042.00	36695.00	35422.00	<u>440.00</u>
290	1121.00	2742.00	1923.00	20643.00	32169.00	33129.00	<u>442.00</u>
291	855.00	1504.00	1860.00	21039.00	7300.00	7747.00	<u>434.00</u>
292	1662.00	3290.00	1990.00	20384.00	35104.00	36798.00	<u>336.00</u>
293	1478.00	4313.00	2304.00	19877.00	32390.00	33274.00	<u>380.00</u>
294	1803.00	3779.00	2126.00	20711.00	35759.00	36558.00	<u>365.00</u>
295	2171.00	3811.00	1811.00	20386.00	35037.00	35380.00	<u>436.00</u>
296	1342.00	3159.00	2056.00	20675.00	36804.00	35497.00	<u>340.00</u>
297	<u>1587.00</u>	3871.00	2492.00	20248.00	33822.00	36422.00	<u>13031.00</u>
298	4469.00	11441.00	2760.00	-1	32783.00	33711.00	<u>1283.00</u>
299	-1	-1	3094.00	23123.00	-1	-1	<u>1286.00</u>
300	2417.00	4307.00	1864.00	20632.00	34294.00	35460.00	<u>450.00</u>
301	1843.00	3900.00	1939.00	20356.00	33631.00	38219.00	<u>445.00</u>
302	<u>1928.00</u>	6817.00	2627.00	20489.00	25643.00	27507.00	<u>2143.00</u>
303	1420.00	3126.00	2114.00	22023.00	29315.00	30285.00	<u>347.00</u>
304	1387.00	3117.00	1834.00	21430.00	29630.00	30842.00	<u>333.00</u>
305	-1	-1	-1	-1	-1	-1	<u>557.00</u>
306	1956.00	5526.00	3012.00	20400.00	32797.00	33185.00	<u>916.00</u>
307	1138.00	2748.00	2105.00	20222.00	12820.00	13582.00	<u>362.00</u>
308	1136.00	2811.00	1905.00	20146.00	12319.00	13779.00	<u>370.00</u>
309	1848.00	3893.00	1804.00	20822.00	33020.00	35283.00	<u>360.00</u>
310	1704.00	4643.00	2667.00	20215.00	30186.00	31455.00	<u>470.00</u>
311	4785.00	7808.00	2560.00	20533.00	35212.00	36777.00	<u>605.00</u>
312	1231.00	2593.00	1747.00	22409.00	31374.00	33801.00	<u>436.00</u>
313	1434.00	3879.00	1876.00	20589.00	2746.00	2982.00	<u>537.00</u>
314	2095.00	6208.00	2450.00	20685.00	27577.00	29008.00	<u>499.00</u>
315	1343.00	2896.00	1904.00	20196.00	25948.00	27996.00	<u>438.00</u>
316	1346.00	3049.00	1763.00	20374.00	23500.00	24240.00	<u>346.00</u>
317	1383.00	4258.00	2151.00	19670.00	24876.00	26199.00	<u>767.00</u>
318	2425.00	4079.00	2096.00	22383.00	35616.00	36919.00	<u>281.00</u>
319	2286.00	4046.00	2052.00	20291.00	33128.00	33518.00	<u>293.00</u>
320	1342.00	2894.00	1912.00	21979.00	20011.00	19708.00	<u>274.00</u>
321	-1	-1	1823.00	19759.00	-1	-1	<u>429.00</u>
322	1669.00	5176.00	-1	-1	33684.00	33799.00	<u>987.00</u>
323	1340.00	-1	-1	-1	-1	-1	<u>1245.00</u>
324	849.00	1498.00	1847.00	20356.00	25574.00	26815.00	<u>443.00</u>
325	1428.00	3294.00	1760.00	21031.00	20547.00	18351.00	<u>532.00</u>
326	1624.00	3645.00	2006.00	22721.00	12464.00	13029.00	<u>443.00</u>
327	3298.00	5178.00	1869.00	20494.00	26638.00	28626.00	<u>448.00</u>

328	5164.00	6461.00	1902.00	20666.00	32317.00	33097.00	<u>287.00</u>
329	1098.00	2477.00	2105.00	21079.00	13510.00	13693.00	<u>390.00</u>
330	1536.00	3516.00	1952.00	22064.00	20111.00	21658.00	<u>372.00</u>
331	1353.00	4247.00	2609.00	20549.00	10214.00	10424.00	<u>482.00</u>
332	1361.00	2899.00	2127.00	20269.00	19131.00	19550.00	<u>363.00</u>
333	-1	-1	-1	-1	-1	-1	-1
334	-1	-1	-1	-1	-1	-1	-1
335	-1	-1	-1	-1	-1	-1	-1
336	-1	-1	-1	-1	-1	-1	-1
337	-1	-1	-1	-1	-1	-1	-1
338	-1	-1	-1	-1	-1	-1	-1
339	-1	-1	-1	-1	-1	-1	-1
340	-1	-1	-1	-1	-1	-1	-1
341	-1	-1	-1	-1	-1	-1	-1
342	-1	-1	-1	-1	-1	-1	-1
343	-1	-1	-1	-1	-1	-1	-1
344	-1	-1	-1	-1	-1	-1	-1
345	-1	-1	-1	-1	-1	-1	-1
346	-1	-1	-1	-1	-1	-1	-1
347	-1	-1	-1	-1	-1	-1	-1
348	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc: 328/348 = 94.25%;

ce\_src: 4/348 = 1.15%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 165.38%

dace\_src: 487.47%

dace\_trc: 292.11%

ce\_trc: 3680.50%

ce\_swc: 3586.30%

ce\_cc: 3703.65%

Table 16: Experiment Data

<b>dendritic-cell</b>
-----------------------

i	ce_src	dace_src	dace_trc	ce_trc	ce_swk	ce_cc	hr_sre_dacc
1	1168.00	1574.00	921.00	2237.00	3567.00	3556.00	<u>297.00</u>
2	769.00	1112.00	1137.00	2485.00	2539.00	2567.00	<u>260.00</u>
3	865.00	1184.00	945.00	2334.00	2888.00	2936.00	<u>326.00</u>
4	681.00	1030.00	913.00	2346.00	2127.00	2192.00	<u>334.00</u>
5	1064.00	1451.00	1083.00	2713.00	2518.00	2658.00	<u>365.00</u>
6	975.00	1269.00	909.00	2276.00	3383.00	3363.00	<u>347.00</u>
7	1469.00	1526.00	1362.00	2739.00	3754.00	4086.00	<u>362.00</u>
8	1193.00	1529.00	994.00	2309.00	3589.00	3596.00	<u>380.00</u>
9	670.00	973.00	904.00	2360.00	1404.00	1494.00	<u>321.00</u>
10	1042.00	1312.00	935.00	2239.00	3142.00	3151.00	<u>320.00</u>
11	1229.00	1574.00	989.00	2342.00	3280.00	3304.00	<u>337.00</u>
12	467.00	645.00	953.00	2461.00	759.00	828.00	<u>387.00</u>
13	773.00	1088.00	1057.00	2866.00	2516.00	2599.00	<u>424.00</u>
14	745.00	1131.00	1097.00	2601.00	2280.00	2535.00	<u>413.00</u>
15	768.00	1059.00	998.00	2270.00	2963.00	2954.00	<u>395.00</u>
16	795.00	1183.00	1094.00	2850.00	2855.00	3015.00	<u>411.00</u>
17	796.00	1080.00	959.00	2510.00	2991.00	3022.00	<u>310.00</u>
18	854.00	1167.00	965.00	2189.00	2951.00	2973.00	<u>307.00</u>
19	808.00	1133.00	899.00	2258.00	3178.00	3176.00	<u>263.00</u>
20	1044.00	1398.00	936.00	2322.00	3593.00	3565.00	<u>376.00</u>
21	831.00	1194.00	1152.00	2454.00	3580.00	3425.00	<u>421.00</u>
22	640.00	1020.00	993.00	2300.00	2323.00	2343.00	<u>364.00</u>
23	695.00	977.00	1137.00	2822.00	1752.00	2168.00	<u>377.00</u>
24	882.00	1169.00	901.00	2229.00	3099.00	3119.00	<u>301.00</u>
25	1140.00	1526.00	1016.00	2502.00	3343.00	3421.00	<u>310.00</u>
26	844.00	1122.00	952.00	2154.00	2825.00	2856.00	<u>291.00</u>
27	874.00	1182.00	1287.00	2693.00	3433.00	3615.00	<u>301.00</u>
28	942.00	1293.00	1021.00	2426.00	2752.00	2853.00	<u>416.00</u>
29	1469.00	1598.00	1121.00	2703.00	3521.00	3668.00	<u>457.00</u>
30	812.00	1116.00	889.00	2194.00	3527.00	3665.00	<u>284.00</u>
31	637.00	963.00	1003.00	2344.00	3132.00	3177.00	<u>308.00</u>
32	670.00	971.00	934.00	2339.00	3113.00	3218.00	<u>314.00</u>
33	827.00	1134.00	853.00	2133.00	3342.00	3334.00	<u>267.00</u>
34	674.00	1002.00	956.00	2376.00	3160.00	3316.00	<u>310.00</u>
35	667.00	938.00	955.00	2209.00	2735.00	2763.00	<u>312.00</u>
36	547.00	857.00	920.00	2283.00	3244.00	3383.00	<u>309.00</u>
37	560.00	810.00	1009.00	2164.00	3384.00	3524.00	<u>310.00</u>
38	782.00	1069.00	1113.00	2938.00	3981.00	3730.00	<u>311.00</u>
39	952.00	1213.00	896.00	2275.00	3528.00	3590.00	<u>307.00</u>
40	632.00	976.00	1245.00	2848.00	3447.00	3484.00	<u>314.00</u>
41	767.00	1094.00	1107.00	2292.00	3147.00	3263.00	<u>313.00</u>
42	751.00	1051.00	1045.00	2284.00	3816.00	3855.00	<u>313.00</u>

43	656.00	991.00	885.00	2132.00	2379.00	2478.00	<u>263.00</u>
44	825.00	1318.00	1239.00	2448.00	3680.00	3832.00	<u>754.00</u>
45	551.00	804.00	912.00	2086.00	1632.00	1687.00	<u>366.00</u>
46	464.00	652.00	980.00	2349.00	740.00	766.00	<u>394.00</u>
47	546.00	868.00	912.00	2028.00	2305.00	2381.00	<u>386.00</u>

Best Results:

hr\_sre\_dacc:  $47/47 = 100.00\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 144.86%

dace\_src: 236.63%

dace\_trc: 198.97%

ce\_trc: 611.06%

ce\_swc: 775.20%

ce\_cc: 795.02%

Table 17: Experiment Data

electrocardiography-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1075.00	2862.00	1509.00	7145.00	11970.00	11994.00	<u>382.00</u>
2	1139.00	3081.00	1542.00	7048.00	12493.00	12195.00	<u>379.00</u>
3	951.00	2585.00	1665.00	7111.00	11145.00	11353.00	<u>371.00</u>
4	938.00	2366.00	1512.00	7071.00	8451.00	8581.00	<u>377.00</u>
5	1084.00	3022.00	1488.00	7156.00	12294.00	12156.00	<u>393.00</u>
6	812.00	2120.00	1739.00	7253.00	6825.00	7010.00	<u>342.00</u>
7	985.00	2510.00	1595.00	7229.00	9857.00	9863.00	<u>351.00</u>
8	945.00	2527.00	1576.00	7140.00	10009.00	10409.00	<u>387.00</u>
9	937.00	2290.00	1583.00	7185.00	11885.00	11921.00	<u>346.00</u>
10	1174.00	3118.00	1579.00	7092.00	10296.00	10384.00	<u>299.00</u>
11	1181.00	2644.00	1549.00	7104.00	10127.00	10381.00	<u>302.00</u>
12	989.00	2563.00	1432.00	7142.00	6661.00	6995.00	<u>320.00</u>
13	1075.00	2783.00	1591.00	7077.00	11456.00	11545.00	<u>335.00</u>
14	939.00	2339.00	1576.00	7038.00	12323.00	12329.00	<u>345.00</u>
15	731.00	2100.00	1445.00	7101.00	5204.00	5504.00	<u>298.00</u>
16	926.00	2737.00	1521.00	7072.00	8084.00	8342.00	<u>299.00</u>

17	1139.00	3212.00	1594.00	7074.00	12034.00	11959.00	<u>388.00</u>
18	921.00	2390.00	1637.00	7019.00	7867.00	8070.00	<u>373.00</u>
19	865.00	2498.00	1515.00	7067.00	10054.00	10196.00	<u>373.00</u>
20	1201.00	2924.00	1501.00	7039.00	11972.00	11357.00	<u>379.00</u>
21	1180.00	3154.00	1526.00	7038.00	11692.00	11211.00	<u>380.00</u>
22	1029.00	2959.00	1759.00	6946.00	9993.00	9793.00	<u>391.00</u>
23	1106.00	3223.00	1739.00	6938.00	9887.00	9806.00	<u>389.00</u>
24	867.00	2519.00	1525.00	7030.00	7856.00	7835.00	<u>384.00</u>
25	871.00	2647.00	1605.00	7101.00	11136.00	10731.00	<u>367.00</u>
26	991.00	2920.00	1511.00	6963.00	8973.00	8935.00	<u>380.00</u>
27	978.00	2477.00	1563.00	6841.00	7769.00	7805.00	<u>375.00</u>
28	1073.00	2857.00	1614.00	6828.00	9338.00	9278.00	<u>387.00</u>
29	1015.00	2837.00	1545.00	6869.00	7779.00	7802.00	<u>379.00</u>
30	1092.00	2716.00	1634.00	6836.00	9432.00	9302.00	<u>375.00</u>
31	1032.00	2747.00	1553.00	6883.00	8770.00	8458.00	<u>383.00</u>
32	665.00	1751.00	1632.00	6987.00	9075.00	9013.00	<u>378.00</u>
33	993.00	2490.00	1535.00	6933.00	11025.00	10583.00	<u>379.00</u>
34	877.00	2419.00	1493.00	6901.00	10986.00	10579.00	<u>375.00</u>
35	994.00	2481.00	1579.00	7008.00	11456.00	11067.00	<u>377.00</u>
36	1106.00	3064.00	1514.00	6984.00	11268.00	10947.00	<u>384.00</u>
37	983.00	2727.00	1536.00	6935.00	8292.00	8477.00	<u>376.00</u>
38	865.00	2214.00	1549.00	7086.00	10847.00	10791.00	<u>372.00</u>
39	645.00	1700.00	1529.00	6899.00	3839.00	3945.00	<u>375.00</u>
40	1176.00	2892.00	1561.00	6965.00	12003.00	11502.00	<u>375.00</u>
41	1117.00	3090.00	1643.00	7035.00	11476.00	11032.00	<u>382.00</u>
42	888.00	2300.00	1496.00	7008.00	12291.00	11414.00	<u>372.00</u>
43	939.00	2751.00	1507.00	6961.00	12483.00	11660.00	<u>372.00</u>
44	1029.00	2888.00	1520.00	6931.00	11578.00	10849.00	<u>381.00</u>
45	1145.00	3064.00	1653.00	6964.00	11335.00	10528.00	<u>381.00</u>
46	1038.00	2886.00	1482.00	6964.00	9235.00	8803.00	<u>379.00</u>
47	1102.00	3223.00	1475.00	7026.00	10867.00	10374.00	<u>382.00</u>

Best Results:

hr\_sre\_dacc: 47/47 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 172.21%

dace\_src: 630.07%

dace\_trc: 327.26%

ce\_trc: 1822.39%

ce\_swc: 2633.81%

ce\_cc: 2598.44%

Table 18: Experiment Data

evidence-codes							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	656.00	1112.00	1017.00	2121.00	2351.00	2398.00	<u>283.00</u>
2	472.00	768.00	820.00	2222.00	1663.00	1772.00	<u>326.00</u>
3	526.00	783.00	774.00	2213.00	2126.00	2208.00	<u>328.00</u>
4	464.00	850.00	989.00	2008.00	2072.00	2298.00	<u>286.00</u>
5	528.00	795.00	762.00	2172.00	2087.00	2179.00	<u>332.00</u>
6	581.00	1061.00	985.00	2228.00	2089.00	2193.00	<u>286.00</u>
7	702.00	1216.00	1038.00	2227.00	2447.00	2520.00	<u>293.00</u>
8	393.00	576.00	820.00	2048.00	1321.00	1425.00	<u>330.00</u>
9	621.00	1125.00	1022.00	2014.00	2466.00	2505.00	<u>292.00</u>
10	391.00	552.00	811.00	2049.00	1346.00	1435.00	<u>320.00</u>
11	623.00	1047.00	954.00	2137.00	2597.00	2622.00	<u>293.00</u>
12	398.00	576.00	780.00	2051.00	1336.00	1446.00	<u>332.00</u>
13	660.00	1186.00	958.00	2194.00	2603.00	2613.00	<u>276.00</u>
14	463.00	915.00	1002.00	2218.00	1625.00	1682.00	<u>270.00</u>
15	618.00	1144.00	1051.00	2123.00	2610.00	2633.00	<u>279.00</u>
16	469.00	708.00	834.00	2163.00	1631.00	1716.00	<u>313.00</u>
17	526.00	940.00	1000.00	2211.00	2415.00	2456.00	<u>282.00</u>
18	394.00	551.00	825.00	2180.00	1731.00	1837.00	<u>312.00</u>
19	663.00	1156.00	931.00	2184.00	2467.00	2496.00	<u>357.00</u>
20	396.00	560.00	738.00	2236.00	1917.00	2009.00	<u>310.00</u>
21	528.00	973.00	970.00	2208.00	1789.00	1871.00	<u>279.00</u>
22	396.00	557.00	780.00	2200.00	1514.00	1593.00	<u>321.00</u>
23	720.00	1261.00	989.00	2121.00	2390.00	2464.00	<u>285.00</u>
24	527.00	858.00	777.00	2238.00	2330.00	2397.00	<u>311.00</u>
25	758.00	1345.00	1103.00	2131.00	2595.00	2649.00	<u>289.00</u>
26	399.00	556.00	790.00	2032.00	2243.00	2295.00	<u>311.00</u>
27	689.00	1254.00	993.00	2013.00	2402.00	2468.00	<u>274.00</u>
28	761.00	1273.00	964.00	2021.00	2512.00	2575.00	<u>271.00</u>
29	534.00	936.00	1024.00	2033.00	2272.00	2346.00	<u>286.00</u>
30	391.00	555.00	723.00	2226.00	1267.00	1386.00	<u>305.00</u>
31	577.00	961.00	934.00	1984.00	2389.00	2437.00	<u>288.00</u>
32	468.00	777.00	778.00	2224.00	2129.00	2203.00	<u>311.00</u>
33	532.00	964.00	1019.00	1972.00	1393.00	1523.00	<u>289.00</u>
34	472.00	713.00	744.00	2146.00	1421.00	1545.00	<u>316.00</u>
35	647.00	1183.00	952.00	2217.00	2457.00	2502.00	<u>290.00</u>
36	397.00	567.00	775.00	2244.00	1789.00	1909.00	<u>321.00</u>

37	633.00	1084.00	1012.00	2158.00	1815.00	1914.00	<u>289.00</u>
38	482.00	754.00	843.00	2232.00	1723.00	1814.00	<u>317.00</u>
39	543.00	958.00	999.00	2002.00	1504.00	1594.00	<u>286.00</u>
40	398.00	581.00	759.00	2304.00	620.00	733.00	<u>314.00</u>
41	581.00	957.00	980.00	2005.00	2350.00	2363.00	<u>286.00</u>
42	463.00	759.00	765.00	2206.00	941.00	1060.00	<u>322.00</u>
43	635.00	1120.00	1013.00	2013.00	2595.00	2657.00	<u>296.00</u>
44	480.00	779.00	757.00	2179.00	934.00	1043.00	<u>314.00</u>
45	637.00	1049.00	939.00	2143.00	2489.00	2581.00	<u>284.00</u>
46	403.00	579.00	786.00	2201.00	623.00	755.00	<u>311.00</u>
47	553.00	933.00	942.00	2191.00	1996.00	2099.00	<u>283.00</u>
48	531.00	863.00	766.00	2169.00	1838.00	1914.00	<u>314.00</u>
49	623.00	1041.00	1007.00	2189.00	2474.00	2537.00	<u>285.00</u>
50	403.00	577.00	834.00	2209.00	628.00	744.00	<u>314.00</u>
51	554.00	938.00	1015.00	2162.00	2265.00	2350.00	<u>293.00</u>
52	551.00	830.00	782.00	2174.00	1825.00	1925.00	<u>317.00</u>
53	587.00	1017.00	955.00	2172.00	2159.00	2247.00	<u>289.00</u>
54	540.00	779.00	840.00	2222.00	624.00	737.00	<u>308.00</u>
55	618.00	1066.00	918.00	2187.00	2331.00	2489.00	<u>279.00</u>
56	483.00	775.00	835.00	2183.00	623.00	721.00	<u>308.00</u>
57	850.00	1313.00	941.00	2208.00	2548.00	2613.00	<u>267.00</u>
58	622.00	1099.00	981.00	2113.00	2395.00	2468.00	<u>289.00</u>
59	477.00	719.00	785.00	2181.00	2310.00	2372.00	<u>301.00</u>
60	726.00	1185.00	990.00	2283.00	1837.00	1926.00	<u>288.00</u>
61	391.00	547.00	783.00	2152.00	613.00	564.00	<u>318.00</u>
62	520.00	936.00	980.00	2252.00	2515.00	2657.00	<u>293.00</u>
63	401.00	556.00	775.00	2193.00	621.00	536.00	<u>320.00</u>
64	545.00	971.00	1004.00	2079.00	2489.00	2554.00	<u>292.00</u>
65	401.00	554.00	736.00	2057.00	620.00	532.00	<u>321.00</u>
66	471.00	855.00	993.00	2188.00	2219.00	2264.00	<u>284.00</u>
67	419.00	576.00	743.00	2170.00	622.00	590.00	<u>321.00</u>
68	529.00	932.00	1014.00	2005.00	2206.00	2292.00	<u>294.00</u>
69	390.00	578.00	804.00	2044.00	622.00	550.00	<u>321.00</u>
70	549.00	932.00	1023.00	2150.00	2583.00	2771.00	<u>285.00</u>
71	403.00	558.00	765.00	2216.00	618.00	547.00	<u>316.00</u>
72	534.00	961.00	970.00	2188.00	1863.00	1912.00	<u>295.00</u>
73	402.00	566.00	815.00	2198.00	624.00	534.00	<u>315.00</u>
74	501.00	859.00	1038.00	1989.00	1615.00	1672.00	<u>293.00</u>
75	410.00	560.00	794.00	2202.00	620.00	536.00	<u>325.00</u>
76	508.00	846.00	938.00	2105.00	1469.00	1538.00	<u>304.00</u>
77	416.00	551.00	764.00	2227.00	621.00	591.00	<u>328.00</u>
78	482.00	854.00	1040.00	2228.00	2328.00	2384.00	<u>294.00</u>
79	400.00	577.00	842.00	2233.00	628.00	591.00	<u>330.00</u>

80	586.00	987.00	1028.00	2193.00	2457.00	2555.00	<u>299.00</u>
81	412.00	551.00	844.00	2198.00	1146.00	1237.00	<u>332.00</u>
82	480.00	853.00	949.00	2193.00	2106.00	2200.00	<u>299.00</u>
83	580.00	871.00	806.00	2210.00	2104.00	2185.00	<u>328.00</u>
84	579.00	922.00	990.00	2149.00	2318.00	2387.00	<u>287.00</u>
85	497.00	758.00	737.00	2254.00	1681.00	1751.00	<u>328.00</u>
86	684.00	1179.00	1035.00	2102.00	2346.00	2445.00	<u>295.00</u>
87	539.00	780.00	831.00	2253.00	2121.00	2057.00	<u>321.00</u>
88	476.00	840.00	992.00	2112.00	1880.00	1972.00	<u>307.00</u>
89	395.00	565.00	741.00	1984.00	985.00	1120.00	<u>332.00</u>
90	389.00	571.00	791.00	2245.00	989.00	1066.00	<u>331.00</u>
91	534.00	963.00	1017.00	2199.00	2285.00	2371.00	<u>294.00</u>
92	400.00	570.00	839.00	2136.00	1392.00	1483.00	<u>311.00</u>
93	615.00	979.00	999.00	2139.00	2539.00	2600.00	<u>292.00</u>
94	397.00	549.00	764.00	2222.00	1406.00	1501.00	<u>331.00</u>
95	495.00	849.00	931.00	2207.00	1838.00	1912.00	<u>290.00</u>
96	468.00	720.00	765.00	2225.00	1385.00	1453.00	<u>331.00</u>
97	476.00	841.00	990.00	2160.00	2380.00	2486.00	<u>292.00</u>
98	404.00	557.00	862.00	2039.00	1387.00	1476.00	<u>317.00</u>
99	542.00	938.00	978.00	2214.00	2318.00	2394.00	<u>290.00</u>
100	398.00	549.00	781.00	2181.00	1392.00	1511.00	<u>332.00</u>
101	697.00	1265.00	993.00	2107.00	2054.00	2178.00	<u>289.00</u>
102	399.00	567.00	820.00	2242.00	1221.00	1289.00	<u>329.00</u>
103	575.00	943.00	1006.00	1970.00	2356.00	2470.00	<u>267.00</u>
104	519.00	978.00	1032.00	2202.00	2450.00	2542.00	<u>286.00</u>
105	480.00	770.00	826.00	2128.00	2301.00	2320.00	<u>307.00</u>
106	482.00	851.00	943.00	2159.00	2448.00	2533.00	<u>287.00</u>
107	558.00	779.00	806.00	2007.00	2397.00	2461.00	<u>300.00</u>
108	628.00	1017.00	962.00	2143.00	2430.00	2529.00	<u>267.00</u>
109	542.00	932.00	908.00	2198.00	2464.00	2537.00	<u>284.00</u>
110	394.00	573.00	766.00	2193.00	619.00	472.00	<u>297.00</u>
111	542.00	935.00	939.00	2146.00	2006.00	2151.00	<u>281.00</u>
112	473.00	752.00	724.00	2184.00	1965.00	2079.00	<u>294.00</u>

Best Results:

hr\_sre\_dacc: 112/112 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 73.26%

dace\_src: 183.68%



dace\_trc: 198.21%

ce\_trc: 614.51%

ce\_swc: 512.31%

ce\_cc: 535.34%

Table 19: Experiment Data

family-health-history-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	708.00	1004.00	1402.00	5585.00	5337.00	5999.00	<u>277.00</u>
2	960.00	1638.00	1469.00	5615.00	5294.00	5985.00	<u>278.00</u>
3	968.00	1559.00	1432.00	5565.00	8859.00	9620.00	<u>280.00</u>
4	1134.00	1662.00	1603.00	5506.00	8964.00	9512.00	<u>278.00</u>
5	939.00	1549.00	1548.00	5506.00	7363.00	8177.00	<u>277.00</u>
6	1214.00	1738.00	1523.00	5451.00	7352.00	8120.00	<u>276.00</u>
7	966.00	1509.00	1571.00	5705.00	9752.00	10298.00	<u>276.00</u>
8	1193.00	1834.00	1640.00	5508.00	9745.00	10317.00	<u>280.00</u>
9	686.00	1005.00	1623.00	5517.00	4215.00	4763.00	<u>270.00</u>
10	838.00	1291.00	1653.00	5440.00	4212.00	4768.00	<u>278.00</u>
11	966.00	1481.00	1543.00	5545.00	7485.00	8135.00	<u>270.00</u>
12	960.00	1635.00	1377.00	5493.00	7479.00	8222.00	<u>279.00</u>
13	704.00	1008.00	1524.00	5511.00	1135.00	1296.00	<u>274.00</u>
14	673.00	1007.00	1460.00	5589.00	1142.00	1302.00	<u>277.00</u>
15	740.00	1008.00	1376.00	5477.00	2172.00	2584.00	<u>279.00</u>
16	696.00	1003.00	1527.00	5472.00	2147.00	2547.00	<u>278.00</u>
17	949.00	1560.00	1436.00	5540.00	3622.00	4091.00	<u>267.00</u>
18	850.00	1383.00	1462.00	5443.00	3642.00	4145.00	<u>268.00</u>
19	1022.00	1398.00	1501.00	5532.00	8812.00	9566.00	<u>278.00</u>
20	1062.00	1777.00	1529.00	5574.00	8810.00	9502.00	<u>279.00</u>
21	867.00	1382.00	1571.00	5484.00	5940.00	6684.00	<u>266.00</u>
22	1063.00	1699.00	1517.00	5241.00	5939.00	6699.00	<u>274.00</u>
23	903.00	1373.00	1509.00	5578.00	2643.00	3139.00	<u>269.00</u>
24	1045.00	1475.00	1455.00	5310.00	2628.00	3157.00	<u>269.00</u>
25	1429.00	2090.00	1415.00	5320.00	6138.00	6929.00	<u>270.00</u>
26	1601.00	2246.00	1502.00	5412.00	6138.00	6977.00	<u>270.00</u>
27	685.00	998.00	1386.00	5516.00	3426.00	3938.00	<u>275.00</u>
28	937.00	1481.00	1542.00	5507.00	3395.00	3898.00	<u>274.00</u>
29	1540.00	2097.00	1477.00	5721.00	8823.00	9483.00	<u>268.00</u>
30	975.00	1551.00	1568.00	5517.00	8701.00	9516.00	<u>268.00</u>
31	1754.00	2420.00	1479.00	5480.00	7907.00	8602.00	<u>268.00</u>
32	1475.00	2103.00	1539.00	5556.00	7868.00	8576.00	<u>268.00</u>

33	1029.00	1716.00	1439.00	5520.00	3702.00	4211.00	<u>268.00</u>
34	852.00	1387.00	1419.00	5564.00	3626.00	4177.00	<u>270.00</u>
35	966.00	1704.00	1428.00	5613.00	2644.00	3155.00	<u>268.00</u>
36	955.00	1482.00	1406.00	5593.00	2648.00	3035.00	<u>265.00</u>
37	1043.00	1707.00	1643.00	5643.00	9518.00	9752.00	<u>271.00</u>
38	960.00	1812.00	2227.00	5544.00	4689.00	5209.00	<u>324.00</u>
39	1146.00	1732.00	1332.00	5503.00	6570.00	7521.00	<u>274.00</u>
40	852.00	1380.00	1509.00	5561.00	6914.00	7525.00	<u>274.00</u>
41	848.00	1395.00	1305.00	5544.00	8128.00	8797.00	<u>276.00</u>
42	1110.00	1937.00	1965.00	5596.00	8814.00	9151.00	<u>324.00</u>
43	958.00	1470.00	1526.00	5472.00	6081.00	6575.00	<u>267.00</u>
44	696.00	1017.00	1546.00	5517.00	5881.00	6410.00	<u>266.00</u>
45	981.00	1466.00	1472.00	5620.00	8857.00	9465.00	<u>276.00</u>
46	1100.00	1810.00	1581.00	5557.00	9497.00	9615.00	<u>275.00</u>
47	960.00	1720.00	1954.00	5711.00	2343.00	2736.00	<u>319.00</u>
48	849.00	1286.00	1515.00	5651.00	2457.00	2751.00	<u>277.00</u>
49	962.00	1427.00	1525.00	5612.00	9236.00	9777.00	<u>278.00</u>
50	1187.00	1849.00	1490.00	5549.00	9308.00	9976.00	<u>278.00</u>
51	1202.00	2113.00	1735.00	5717.00	7287.00	7831.00	<u>319.00</u>
52	865.00	1294.00	1437.00	5534.00	7474.00	7609.00	<u>279.00</u>
53	1415.00	2087.00	1570.00	5526.00	9089.00	9158.00	<u>269.00</u>
54	1293.00	2027.00	1492.00	5615.00	9121.00	9207.00	<u>269.00</u>
55	1148.00	2077.00	1786.00	5586.00	6710.00	7274.00	<u>320.00</u>
56	851.00	1373.00	1417.00	5598.00	5320.00	5840.00	<u>274.00</u>
57	683.00	1012.00	1496.00	5513.00	3566.00	3952.00	<u>270.00</u>
58	686.00	990.00	1550.00	5523.00	3618.00	3968.00	<u>279.00</u>
59	669.00	1011.00	1421.00	5542.00	3600.00	3987.00	<u>276.00</u>
60	687.00	973.00	1425.00	5510.00	3575.00	3997.00	<u>284.00</u>
61	972.00	1443.00	1420.00	5563.00	7628.00	8164.00	<u>281.00</u>
62	881.00	1417.00	1393.00	5589.00	7656.00	8311.00	<u>278.00</u>
63	1602.00	2062.00	1632.00	5549.00	8108.00	9396.00	<u>274.00</u>
64	842.00	1265.00	1345.00	5576.00	8287.00	9207.00	<u>269.00</u>
65	672.00	990.00	1509.00	5564.00	7802.00	8381.00	<u>280.00</u>
66	1429.00	2036.00	1442.00	5557.00	7770.00	8448.00	<u>280.00</u>
67	1833.00	2316.00	1334.00	5569.00	9553.00	10223.00	<u>270.00</u>
68	987.00	1364.00	1550.00	5547.00	9673.00	10186.00	<u>271.00</u>
69	713.00	1072.00	1395.00	5610.00	5482.00	6064.00	<u>276.00</u>
70	1261.00	2005.00	1558.00	5604.00	5403.00	6104.00	<u>273.00</u>
71	1891.00	2465.00	1354.00	5532.00	8907.00	9931.00	<u>268.00</u>
72	1203.00	1876.00	1542.00	5586.00	8934.00	9818.00	<u>268.00</u>
73	856.00	1347.00	1466.00	5575.00	8863.00	9385.00	<u>279.00</u>
74	1641.00	2208.00	1500.00	5552.00	8843.00	9401.00	<u>278.00</u>
75	698.00	1079.00	1513.00	5464.00	2769.00	3145.00	<u>272.00</u>

76	962.00	1359.00	1445.00	5326.00	2800.00	3166.00	<u>277.00</u>
77	1543.00	2070.00	1546.00	5383.00	8576.00	9213.00	<u>270.00</u>
78	1054.00	1748.00	1449.00	5524.00	8650.00	9288.00	<u>271.00</u>
79	694.00	1000.00	1560.00	5566.00	7434.00	8104.00	<u>275.00</u>
80	868.00	1376.00	1507.00	5614.00	7393.00	8077.00	<u>275.00</u>
81	1057.00	1703.00	1312.00	5585.00	5863.00	10276.00	<u>284.00</u>
82	1060.00	1762.00	1436.00	5600.00	5802.00	10244.00	<u>283.00</u>
83	1788.00	2304.00	1409.00	5611.00	9417.00	9908.00	<u>271.00</u>
84	1825.00	2493.00	1556.00	5674.00	9481.00	9996.00	<u>266.00</u>
85	1889.00	2488.00	1416.00	5611.00	8698.00	9386.00	<u>270.00</u>
86	2061.00	2884.00	1676.00	5614.00	8620.00	9319.00	<u>271.00</u>
87	1144.00	1634.00	1549.00	5512.00	8301.00	8846.00	<u>275.00</u>
88	1556.00	2059.00	1471.00	5540.00	8259.00	8875.00	<u>279.00</u>
89	857.00	1384.00	1612.00	5490.00	4229.00	4814.00	<u>271.00</u>
90	847.00	1480.00	1416.00	5561.00	4263.00	4696.00	<u>272.00</u>
91	1204.00	1990.00	1449.00	5694.00	6996.00	7332.00	<u>268.00</u>
92	1421.00	2006.00	1480.00	5475.00	6989.00	7523.00	<u>268.00</u>
93	1603.00	2224.00	1302.00	5611.00	9437.00	10048.00	<u>270.00</u>
94	963.00	1483.00	1506.00	5568.00	9419.00	10122.00	<u>271.00</u>
95	1916.00	2534.00	1596.00	5521.00	9443.00	10125.00	<u>271.00</u>
96	1673.00	2277.00	1426.00	5557.00	9417.00	9997.00	<u>268.00</u>
97	1309.00	1839.00	1407.00	5870.00	5354.00	5959.00	<u>276.00</u>
98	968.00	1646.00	1514.00	5633.00	5329.00	5985.00	<u>271.00</u>
99	872.00	1365.00	1455.00	5538.00	3263.00	3700.00	<u>277.00</u>
100	683.00	1002.00	1434.00	5542.00	3215.00	3724.00	<u>277.00</u>
101	1779.00	2414.00	1495.00	5584.00	8952.00	10035.00	<u>269.00</u>
102	1049.00	1705.00	1570.00	5530.00	9040.00	9908.00	<u>272.00</u>
103	1770.00	2369.00	1505.00	5563.00	9398.00	9985.00	<u>272.00</u>
104	1065.00	1628.00	1601.00	5587.00	9051.00	10089.00	<u>269.00</u>
105	1778.00	2414.00	1386.00	5546.00	8964.00	10129.00	<u>273.00</u>
106	966.00	1551.00	1417.00	5558.00	9358.00	10113.00	<u>271.00</u>
107	1288.00	1865.00	1513.00	5537.00	7275.00	8662.00	<u>272.00</u>
108	694.00	1010.00	1496.00	5552.00	7376.00	8740.00	<u>275.00</u>
109	1057.00	1642.00	1582.00	5570.00	8368.00	9463.00	<u>272.00</u>
110	1141.00	1797.00	1494.00	5588.00	8412.00	9300.00	<u>272.00</u>
111	1054.00	1705.00	1355.00	5519.00	3740.00	4579.00	<u>276.00</u>
112	682.00	1096.00	1510.00	5586.00	3733.00	4560.00	<u>276.00</u>
113	1360.00	1996.00	1437.00	5583.00	6181.00	6874.00	<u>273.00</u>
114	853.00	1286.00	1525.00	5557.00	5818.00	6928.00	<u>272.00</u>
115	687.00	1005.00	1397.00	5576.00	1412.00	1785.00	<u>269.00</u>
116	691.00	1005.00	1355.00	5503.00	1463.00	1788.00	<u>272.00</u>
117	1353.00	2047.00	1351.00	5574.00	7666.00	8738.00	<u>275.00</u>
118	854.00	1482.00	1521.00	5586.00	7627.00	8739.00	<u>268.00</u>

119	857.00	1298.00	1434.00	5570.00	3539.00	4253.00	<u>272.00</u>
120	853.00	1302.00	1468.00	5554.00	3661.00	4208.00	<u>276.00</u>
121	1208.00	1878.00	1615.00	5568.00	7761.00	8891.00	<u>275.00</u>
122	864.00	1315.00	1569.00	5582.00	7920.00	8954.00	<u>276.00</u>
123	685.00	1006.00	1427.00	5580.00	3410.00	3945.00	<u>273.00</u>
124	690.00	1013.00	1388.00	5602.00	3692.00	3890.00	<u>272.00</u>
125	874.00	1559.00	1803.00	5520.00	2097.00	2621.00	<u>315.00</u>
126	970.00	1522.00	1451.00	5665.00	4919.00	5838.00	<u>273.00</u>
127	1050.00	2049.00	1632.00	5521.00	7724.00	8730.00	<u>321.00</u>
128	849.00	1297.00	1505.00	5312.00	5904.00	6371.00	<u>272.00</u>
129	1053.00	2045.00	1748.00	5263.00	4275.00	4642.00	<u>318.00</u>
130	862.00	1388.00	1524.00	5439.00	5395.00	6167.00	<u>279.00</u>
131	1291.00	2426.00	1689.00	5510.00	9244.00	9978.00	<u>318.00</u>
132	965.00	1572.00	1512.00	5518.00	5876.00	6359.00	<u>276.00</u>
133	1158.00	1665.00	1374.00	5566.00	7865.00	8834.00	<u>272.00</u>
134	856.00	1387.00	1416.00	5561.00	7654.00	8778.00	<u>273.00</u>
135	1138.00	1737.00	1465.00	5562.00	8207.00	9370.00	<u>270.00</u>
136	1477.00	2171.00	1418.00	5549.00	8639.00	9400.00	<u>268.00</u>
137	963.00	1431.00	1474.00	5776.00	3216.00	3806.00	<u>273.00</u>
138	684.00	1002.00	1461.00	5566.00	3406.00	3804.00	<u>276.00</u>
139	1054.00	1722.00	1543.00	5582.00	8879.00	9526.00	<u>271.00</u>
140	969.00	1597.00	1561.00	5548.00	8577.00	9467.00	<u>272.00</u>
141	962.00	1509.00	1506.00	5551.00	7984.00	8834.00	<u>277.00</u>
142	1137.00	1798.00	1459.00	5516.00	7972.00	8778.00	<u>274.00</u>
143	858.00	1386.00	1486.00	5535.00	7129.00	7861.00	<u>272.00</u>
144	859.00	1374.00	1295.00	5574.00	7043.00	7801.00	<u>272.00</u>

Best Results:

hr\_sre\_dacc: 144/144 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 288.48%

dace\_src: 488.15%

dace\_trc: 443.83%

ce\_trc: 1912.38%

ce\_swc: 2258.61%

ce\_cc: 2510.59%

Table 20: Experiment Data

general-formal-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	584.00	815.00	782.00	1889.00	1674.00	1687.00	<u>290.00</u>
2	924.00	1360.00	1052.00	1935.00	1997.00	1969.00	<u>341.00</u>
3	<u>734.00</u>	1131.00	1270.00	1651.00	1830.00	1805.00	762.00
4	630.00	1070.00	1020.00	1961.00	1817.00	1823.00	<u>598.00</u>
5	628.00	938.00	1086.00	2001.00	1718.00	1723.00	<u>522.00</u>
6	<u>659.00</u>	1091.00	857.00	1679.00	1702.00	1708.00	896.00
7	629.00	1008.00	1158.00	1778.00	1390.00	1405.00	<u>426.00</u>
8	821.00	1370.00	1064.00	1912.00	1882.00	1876.00	<u>522.00</u>
9	845.00	1293.00	1020.00	1852.00	1914.00	1907.00	<u>358.00</u>
10	758.00	1277.00	857.00	1701.00	1872.00	1850.00	<u>592.00</u>

Best Results:

hr\_sre\_dacc:  $8/10 = 80.00\%$ ;

ce\_src:  $2/10 = 20.00\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 53.69%

dace\_src: 138.46%

dace\_trc: 112.44%

ce\_trc: 292.24%

ce\_swc: 276.36%

ce\_cc: 275.60%

Table 21: Experiment Data

gene-regulation-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	875.00	1343.00	1403.00	8359.00	1685.00	1486.00	<u>316.00</u>
2	627.00	1020.00	1594.00	7984.00	3941.00	3999.00	<u>401.00</u>
3	1008.00	2258.00	1594.00	8209.00	9925.00	9863.00	<u>294.00</u>
4	619.00	1034.00	1597.00	8320.00	1591.00	1740.00	<u>350.00</u>
5	835.00	1881.00	1523.00	8030.00	8456.00	8522.00	<u>311.00</u>

6	<u>634.00</u>	1022.00	1368.00	8179.00	8506.00	8501.00	820.00
7	<u>630.00</u>	1017.00	1360.00	9410.00	4546.00	4596.00	<u>385.00</u>
8	<u>629.00</u>	1021.00	1322.00	8336.00	7878.00	7819.00	<u>366.00</u>
9	<u>638.00</u>	1027.00	1485.00	8639.00	1110.00	1391.00	<u>736.00</u>
10	<u>635.00</u>	1036.00	1355.00	8860.00	1107.00	1394.00	<u>731.00</u>
11	<u>639.00</u>	1033.00	1712.00	8654.00	1120.00	1461.00	<u>901.00</u>
12	<u>743.00</u>	1404.00	1430.00	8075.00	7592.00	7624.00	<u>301.00</u>
13	<u>783.00</u>	1460.00	1437.00	8681.00	6181.00	5250.00	<u>417.00</u>
14	<u>676.00</u>	1063.00	1455.00	8502.00	7729.00	7617.00	<u>449.00</u>
15	<u>630.00</u>	1030.00	1410.00	8160.00	3028.00	3103.00	<u>356.00</u>
16	<u>639.00</u>	1029.00	1623.00	8498.00	3214.00	3304.00	<u>569.00</u>
17	<u>627.00</u>	1020.00	1533.00	8619.00	3096.00	3199.00	<u>446.00</u>
18	<u>844.00</u>	1297.00	1426.00	8528.00	3997.00	3717.00	<u>538.00</u>
19	<u>742.00</u>	1404.00	1391.00	7918.00	9867.00	9882.00	<u>347.00</u>
20	<u>670.00</u>	1088.00	1635.00	8111.00	9147.00	8927.00	<u>436.00</u>
21	<u>655.00</u>	1066.00	1827.00	8446.00	8806.00	8786.00	<u>814.00</u>
22	<u>636.00</u>	1031.00	1563.00	8560.00	3031.00	3076.00	<u>1066.00</u>
23	<u>638.00</u>	1033.00	2056.00	8233.00	2967.00	3070.00	<u>1174.00</u>
24	<u>916.00</u>	1856.00	1378.00	8104.00	12380.00	11740.00	<u>885.00</u>
25	<u>907.00</u>	1875.00	1617.00	7895.00	5325.00	4179.00	<u>1348.00</u>
26	<u>677.00</u>	1106.00	1495.00	7638.00	3488.00	3491.00	<u>909.00</u>
27	<u>663.00</u>	1082.00	1556.00	8153.00	3323.00	3283.00	<u>498.00</u>
28	<u>635.00</u>	1033.00	1435.00	8743.00	3392.00	3458.00	<u>1347.00</u>
29	<u>653.00</u>	1077.00	1515.00	8152.00	7529.00	7412.00	<u>570.00</u>
30	<u>645.00</u>	1064.00	1586.00	7878.00	8749.00	8575.00	<u>364.00</u>
31	<u>638.00</u>	1047.00	1709.00	8411.00	10020.00	10331.00	<u>827.00</u>
32	<u>758.00</u>	1442.00	1603.00	8039.00	8558.00	8495.00	<u>581.00</u>
33	<u>633.00</u>	1015.00	1413.00	8039.00	7686.00	7681.00	<u>298.00</u>
34	<u>628.00</u>	1028.00	1519.00	8640.00	4779.00	4869.00	<u>446.00</u>
35	<u>753.00</u>	1444.00	1701.00	8549.00	8483.00	8409.00	<u>567.00</u>
36	<u>1448.00</u>	3012.00	2019.00	8362.00	14015.00	13246.00	<u>476.00</u>
37	<u>1099.00</u>	3010.00	1956.00	8346.00	7747.00	7875.00	<u>455.00</u>
38	<u>841.00</u>	1748.00	1491.00	8359.00	4988.00	5231.00	<u>378.00</u>
39	<u>745.00</u>	1612.00	1548.00	8091.00	4847.00	5191.00	<u>313.00</u>
40	<u>1349.00</u>	2585.00	1559.00	8266.00	10987.00	11616.00	<u>297.00</u>
41	<u>1197.00</u>	2495.00	1450.00	8143.00	8318.00	8792.00	<u>296.00</u>
42	<u>650.00</u>	1041.00	1448.00	8719.00	9041.00	9424.00	<u>687.00</u>
43	<u>2551.00</u>	3610.00	1381.00	8243.00	13357.00	13515.00	<u>301.00</u>
44	<u>633.00</u>	1023.00	1524.00	8354.00	2463.00	2589.00	<u>467.00</u>
45	<u>1678.00</u>	3779.00	2036.00	8148.00	8141.00	8044.00	<u>458.00</u>
46	<u>626.00</u>	1011.00	2153.00	8175.00	4117.00	4184.00	<u>314.00</u>
47	<u>1596.00</u>	2772.00	1342.00	8274.00	13093.00	13314.00	<u>316.00</u>
48	<u>831.00</u>	2217.00	1887.00	8526.00	4827.00	4865.00	<u>825.00</u>

49	1304.00	2618.00	1558.00	8266.00	12800.00	13441.00	338.00
50	608.00	1018.00	1610.00	8198.00	7940.00	8237.00	330.00
51	1193.00	3074.00	1573.00	8120.00	11613.00	12272.00	400.00
52	1243.00	2539.00	1432.00	8287.00	6501.00	6734.00	372.00
53	728.00	1565.00	1283.00	8467.00	4633.00	4745.00	370.00
54	1129.00	2373.00	1600.00	8236.00	10259.00	10264.00	305.00
55	997.00	2047.00	1422.00	8134.00	4655.00	4654.00	286.00
56	734.00	1393.00	1411.00	8002.00	4146.00	4207.00	282.00
57	616.00	1019.00	1419.00	8271.00	4108.00	4247.00	679.00
58	1004.00	2038.00	1540.00	8277.00	11610.00	11798.00	434.00
59	618.00	1015.00	1402.00	8120.00	4165.00	4188.00	690.00
60	1390.00	2586.00	1490.00	8211.00	14053.00	13818.00	433.00
61	731.00	1581.00	2366.00	9580.00	13610.00	13075.00	957.00
62	623.00	1018.00	1429.00	8035.00	4215.00	4278.00	683.00
63	925.00	2111.00	1549.00	7935.00	12593.00	12012.00	431.00
64	624.00	1019.00	1404.00	8096.00	1927.00	2070.00	352.00
65	1208.00	2516.00	1561.00	8053.00	9880.00	9785.00	290.00
66	621.00	1014.00	1464.00	8126.00	4214.00	4216.00	676.00
67	617.00	1026.00	1532.00	7972.00	4314.00	4228.00	427.00
68	739.00	1468.00	1402.00	8009.00	9917.00	9770.00	690.00
69	1003.00	2256.00	1394.00	7645.00	13112.00	12785.00	431.00
70	743.00	1578.00	2676.00	9130.00	10930.00	10714.00	848.00
71	619.00	1019.00	1392.00	7674.00	4594.00	4639.00	692.00
72	1072.00	2365.00	1367.00	7841.00	12978.00	12558.00	423.00
73	729.00	1411.00	1407.00	8038.00	8109.00	8368.00	315.00
74	1834.00	3126.00	1452.00	7646.00	14004.00	13629.00	306.00
75	639.00	1051.00	1488.00	7623.00	11268.00	11012.00	389.00
76	629.00	1044.00	1371.00	7875.00	7299.00	7197.00	407.00
77	1002.00	2052.00	1527.00	7682.00	13373.00	13164.00	311.00
78	926.00	2173.00	1526.00	8012.00	12660.00	12453.00	303.00
79	630.00	1032.00	1472.00	7989.00	9750.00	9690.00	468.00
80	1007.00	2158.00	1436.00	8151.00	9508.00	9340.00	494.00
81	936.00	2026.00	1571.00	7861.00	10896.00	10300.00	302.00
82	1437.00	2748.00	1397.00	7851.00	10434.00	9821.00	310.00
83	625.00	1022.00	1439.00	7515.00	10510.00	10056.00	385.00
84	1080.00	2352.00	1551.00	7795.00	13708.00	12508.00	305.00
85	1212.00	2355.00	1572.00	7699.00	12769.00	11739.00	303.00
86	642.00	1034.00	1415.00	7971.00	8501.00	8085.00	658.00
87	1385.00	2551.00	1454.00	7834.00	12773.00	11756.00	291.00
88	629.00	1038.00	1364.00	8917.00	1620.00	1828.00	1201.00
89	644.00	1039.00	2755.00	7702.00	1631.00	1878.00	544.00
90	627.00	1036.00	1412.00	7578.00	1652.00	1760.00	395.00
91	625.00	1022.00	1373.00	7877.00	1620.00	1785.00	368.00

92	615.00	1024.00	1597.00	7601.00	1565.00	1727.00	<u>286.00</u>
93	<u>741.00</u>	1547.00	1980.00	8090.00	4711.00	4733.00	<u>1489.00</u>
94	<u>736.00</u>	1404.00	2223.00	9286.00	4727.00	4588.00	<u>1355.00</u>
95	849.00	1639.00	1434.00	7979.00	5353.00	5406.00	<u>372.00</u>
96	937.00	2166.00	1558.00	8164.00	7898.00	7976.00	<u>314.00</u>
97	1616.00	2824.00	1807.00	8398.00	14755.00	14314.00	<u>356.00</u>
98	731.00	1576.00	1515.00	8320.00	2808.00	2906.00	<u>342.00</u>
99	622.00	1015.00	1464.00	8152.00	2815.00	2904.00	<u>342.00</u>
100	1388.00	2642.00	1394.00	8342.00	13105.00	12575.00	<u>308.00</u>

Best Results:

hr\_sre\_dacc:  $77/100 = 77.00\%$ ;

ce\_src:  $23/100 = 23.00\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 112.56%

dace\_src: 303.15%

dace\_trc: 258.87%

ce\_trc: 1800.47%

ce\_swc: 1714.37%

ce\_cc: 1698.76%

Table 22: Experiment Data

host-pathogen-interactions-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	977.00	1652.00	1245.00	2951.00	4077.00	4080.00	<u>397.00</u>
2	951.00	1589.00	1219.00	2822.00	4015.00	4006.00	<u>389.00</u>
3	500.00	965.00	1291.00	2909.00	1980.00	2037.00	<u>379.00</u>
4	1010.00	1594.00	1192.00	2842.00	4024.00	4151.00	<u>386.00</u>
5	1265.00	2259.00	1211.00	2922.00	3574.00	3757.00	<u>394.00</u>
6	1214.00	2260.00	1272.00	2847.00	3913.00	4060.00	<u>381.00</u>
7	625.00	1239.00	1226.00	2934.00	3597.00	3761.00	<u>383.00</u>
8	1045.00	2010.00	1239.00	2960.00	4034.00	4088.00	<u>388.00</u>
9	1174.00	2202.00	1180.00	2908.00	3346.00	3498.00	<u>391.00</u>
10	1543.00	2357.00	1223.00	2934.00	4102.00	4200.00	<u>398.00</u>



11	1446.00	2441.00	1253.00	2811.00	3931.00	4009.00	<u>400.00</u>
12	863.00	1616.00	1177.00	2921.00	3691.00	3878.00	<u>395.00</u>
13	639.00	1107.00	1234.00	2882.00	2001.00	2108.00	<u>372.00</u>
14	699.00	1292.00	1269.00	2929.00	2050.00	2142.00	<u>388.00</u>
15	1170.00	2221.00	1280.00	2797.00	3747.00	3817.00	<u>380.00</u>
16	1132.00	2067.00	1312.00	2834.00	3731.00	3830.00	<u>402.00</u>
17	1168.00	2242.00	1288.00	2790.00	3781.00	3911.00	<u>393.00</u>
18	1162.00	2237.00	1181.00	2799.00	3758.00	3849.00	<u>390.00</u>
19	1322.00	2195.00	1251.00	2947.00	4074.00	4104.00	<u>393.00</u>
20	794.00	1578.00	1254.00	2943.00	2378.00	2581.00	<u>382.00</u>
21	489.00	975.00	1274.00	2986.00	1780.00	1841.00	<u>382.00</u>
22	852.00	1407.00	1269.00	3016.00	3940.00	4139.00	<u>388.00</u>
23	621.00	1126.00	1172.00	2914.00	2736.00	2801.00	<u>389.00</u>
24	833.00	1417.00	1213.00	2930.00	3394.00	3462.00	<u>398.00</u>
25	1049.00	1975.00	1248.00	3002.00	3860.00	4087.00	<u>387.00</u>
26	563.00	1186.00	1259.00	2828.00	3530.00	3749.00	<u>372.00</u>
27	698.00	1333.00	1312.00	2985.00	3711.00	3879.00	<u>382.00</u>
28	975.00	1701.00	1260.00	2939.00	4047.00	4165.00	<u>386.00</u>
29	797.00	1485.00	1244.00	2976.00	3462.00	3824.00	<u>390.00</u>
30	641.00	1180.00	1087.00	2793.00	3667.00	3841.00	<u>390.00</u>
31	697.00	1312.00	1191.00	2788.00	4079.00	4001.00	<u>386.00</u>
32	1010.00	1704.00	1223.00	2855.00	4049.00	4178.00	<u>391.00</u>
33	570.00	1171.00	1332.00	2781.00	1305.00	1465.00	<u>390.00</u>
34	572.00	1138.00	1228.00	2776.00	1338.00	1474.00	<u>395.00</u>
35	1020.00	1855.00	1222.00	2937.00	3858.00	4141.00	<u>391.00</u>

Best Results:

hr\_sre\_dacc: 35/35 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 135.39%

dace\_src: 326.40%

dace\_trc: 218.80%

ce\_trc: 644.40%

ce\_swc: 771.14%

ce\_cc: 803.21%

Table 23: Experiment Data

imgt-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	<u>7406.00</u>	9661.00	-1	-1	-1	-1	-1
2	4693.00	-1	<u>3271.00</u>	19530.00	25023.00	25162.00	-1
3	<u>3480.00</u>	8739.00	3505.00	20413.00	19895.00	19520.00	5143.00
4	7107.00	9237.00	<u>3304.00</u>	-1	-1	-1	-1
5	-1	-1	-1	<u>24495.00</u>	-1	-1	-1
6	-1	-1	<u>3100.00</u>	19132.00	-1	-1	-1
7	-1	-1	-1	-1	<u>30308.00</u>	-1	-1
8	5153.00	8051.00	<u>4252.00</u>	19577.00	29094.00	29229.00	4978.00
9	145367.00	31747.00	<u>3189.00</u>	-1	-1	-1	-1
10	3278.00	6129.00	<u>3003.00</u>	-1	14163.00	14366.00	-1
11	-1	-1	<u>3121.00</u>	-1	-1	-1	-1
12	-1	-1	-1	-1	-1	-1	-1
13	-1	-1	<u>3087.00</u>	19360.00	-1	-1	-1
14	6508.00	9278.00	<u>4017.00</u>	19261.00	-1	-1	-1
15	5532.00	8625.00	<u>3340.00</u>	-1	31463.00	30831.00	4729.00
16	5428.00	9002.00	<u>3067.00</u>	-1	31851.00	32310.00	-1
17	<u>3421.00</u>	10120.00	-1	19008.00	22252.00	22139.00	-1
18	-1	-1	<u>3240.00</u>	-1	-1	-1	-1
19	-1	<u>9220.00</u>	-1	-1	-1	-1	-1
20	-1	-1	-1	<u>18625.00</u>	-1	-1	-1
21	<u>1920.00</u>	4535.00	3140.00	-1	11499.00	11649.00	-1
22	<u>5425.00</u>	8987.00	-1	18561.00	33520.00	32396.00	-1
23	6851.00	9677.00	<u>3248.00</u>	-1	-1	33136.00	-1
24	6848.00	9850.00	<u>3243.00</u>	-1	-1	-1	-1
25	-1	9379.00	<u>2528.00</u>	-1	-1	-1	-1
26	4172.00	7260.00	<u>3006.00</u>	21031.00	22126.00	21990.00	-1
27	5100.00	8715.00	<u>4124.00</u>	-1	27695.00	27120.00	8613.00
28	5861.00	7912.00	<u>4673.00</u>	19655.00	30497.00	30535.00	12383.00
29	<u>1897.00</u>	5516.00	3572.00	-1	10843.00	10297.00	-1
30	-1	-1	<u>3044.00</u>	18640.00	-1	-1	-1
31	-1	-1	-1	-1	-1	-1	-1
32	6973.00	-1	<u>4260.00</u>	-1	-1	-1	-1
33	<u>7617.00</u>	9551.00	-1	-1	-1	-1	-1
34	-1	-1	<u>3234.00</u>	-1	-1	-1	-1
35	-1	-1	<u>4512.00</u>	-1	-1	-1	-1
36	4177.00	7100.00	<u>3314.00</u>	-1	-1	-1	5625.00
37	<u>3505.00</u>	6961.00	3942.00	19171.00	20172.00	18347.00	-1
38	-1	-1	-1	-1	-1	-1	-1
39	3192.00	5098.00	2620.00	19195.00	32729.00	31544.00	<u>369.00</u>

Best Results:

ce\_src:  $8/39 = 20.51\%$ ;  
dace\_trc:  $23/39 = 58.97\%$ ;  
ce\_trc:  $2/39 = 5.13\%$ ;  
ce\_swc:  $1/39 = 2.56\%$ ;  
dace\_src:  $1/39 = 2.56\%$ ;  
hr\_sre\_dacc:  $1/39 = 2.56\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: -585670.92%  
dace\_src: -425890.08%  
dace\_trc: -179831.31%  
ce\_trc: -555752.54%  
ce\_swc: -568305.79%  
ce\_cc: -568404.39%

Table 24: Experiment Data

infectious-disease							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	969.00	1915.00	1261.00	3340.00	5380.00	4867.00	<u>425.00</u>
2	1036.00	1971.00	1182.00	3393.00	5504.00	5117.00	<u>425.00</u>
3	705.00	1586.00	1247.00	3401.00	4229.00	4079.00	<u>415.00</u>
4	994.00	1983.00	1270.00	3348.00	5167.00	5004.00	<u>421.00</u>
5	1333.00	2419.00	1175.00	3331.00	4955.00	4792.00	<u>433.00</u>
6	1588.00	2525.00	1296.00	3284.00	5039.00	4861.00	<u>419.00</u>
7	775.00	1626.00	1228.00	3314.00	4191.00	4071.00	<u>423.00</u>
8	743.00	1597.00	1233.00	3316.00	4974.00	4823.00	<u>426.00</u>
9	694.00	1396.00	1255.00	3326.00	4051.00	4027.00	<u>420.00</u>
10	996.00	2109.00	1198.00	3450.00	5168.00	5091.00	<u>422.00</u>
11	1254.00	2406.00	1233.00	3398.00	4846.00	4692.00	<u>422.00</u>
12	1084.00	2098.00	1251.00	3309.00	3908.00	3773.00	<u>436.00</u>
13	978.00	1684.00	1251.00	3318.00	3433.00	3417.00	<u>439.00</u>
14	897.00	1660.00	1176.00	3402.00	5016.00	4828.00	<u>430.00</u>
15	683.00	1583.00	1213.00	3424.00	4311.00	4227.00	<u>411.00</u>

16	630.00	1397.00	975.00	3283.00	1441.00	1491.00	<u>422.00</u>
17	1562.00	2635.00	1215.00	3329.00	4931.00	4848.00	<u>424.00</u>
18	1550.00	2602.00	1242.00	3330.00	5025.00	4836.00	<u>430.00</u>
19	1528.00	2659.00	1027.00	3339.00	4931.00	4838.00	<u>422.00</u>
20	1522.00	2690.00	1238.00	3334.00	4947.00	4858.00	<u>418.00</u>
21	1606.00	2745.00	1215.00	3557.00	5287.00	5097.00	<u>429.00</u>
22	729.00	1454.00	1184.00	3548.00	1985.00	2022.00	<u>418.00</u>
23	778.00	1671.00	1117.00	3623.00	4049.00	3977.00	<u>421.00</u>
24	705.00	1531.00	1293.00	3510.00	3907.00	3837.00	<u>425.00</u>
25	744.00	1422.00	1285.00	3614.00	4569.00	4443.00	<u>423.00</u>
26	792.00	1788.00	1255.00	3724.00	4809.00	4768.00	<u>432.00</u>
27	1023.00	2041.00	1226.00	3477.00	5118.00	4962.00	<u>421.00</u>
28	691.00	1483.00	1231.00	4202.00	4252.00	4232.00	<u>418.00</u>
29	551.00	1215.00	1237.00	3411.00	3220.00	3389.00	<u>419.00</u>
30	964.00	1799.00	1326.00	3658.00	5265.00	5463.00	<u>425.00</u>
31	853.00	1792.00	1200.00	3512.00	4625.00	4856.00	<u>425.00</u>
32	750.00	1580.00	1290.00	3682.00	4976.00	5723.00	<u>423.00</u>
33	858.00	1808.00	1281.00	3616.00	5123.00	5291.00	<u>422.00</u>
34	971.00	1735.00	1236.00	3716.00	5310.00	5282.00	<u>426.00</u>
35	833.00	1561.00	1258.00	3551.00	4090.00	4298.00	<u>421.00</u>
36	557.00	1195.00	1189.00	3467.00	1070.00	1213.00	<u>424.00</u>
37	794.00	1850.00	1283.00	3549.00	3755.00	3836.00	<u>425.00</u>
38	-1	-1	-1	-1	-1	-1	-1
39	-1	-1	-1	-1	-1	-1	-1
40	-1	-1	-1	-1	-1	-1	-1
41	-1	-1	-1	-1	-1	-1	-1
42	-1	-1	-1	-1	-1	-1	-1
43	-1	-1	-1	-1	-1	-1	-1
44	-1	-1	-1	-1	-1	-1	-1
45	-1	-1	-1	-1	-1	-1	-1
46	-1	-1	-1	-1	-1	-1	-1
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1
52	-1	-1	-1	-1	-1	-1	-1
53	-1	-1	-1	-1	-1	-1	-1
54	-1	-1	-1	-1	-1	-1	-1
55	-1	-1	-1	-1	-1	-1	-1
56	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $37/56 = 66.07\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 118.25%

dace\_src: 259.36%

dace\_trc: 158.65%

ce\_trc: 508.98%

ce\_swc: 653.99%

ce\_cc: 647.17%

Table 25: Experiment Data

information-artifact-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1145.00	1860.00	1308.00	3125.00	4269.00	4456.00	<u>514.00</u>
2	1339.00	1712.00	1294.00	3262.00	4324.00	4597.00	<u>514.00</u>
3	746.00	1006.00	1287.00	2564.00	1929.00	2017.00	<u>490.00</u>
4	1149.00	1723.00	1356.00	3107.00	4459.00	4588.00	<u>486.00</u>
5	874.00	1548.00	1263.00	2709.00	3724.00	3801.00	<u>519.00</u>
6	1186.00	1782.00	1279.00	2590.00	4213.00	4571.00	<u>506.00</u>
7	925.00	1356.00	1249.00	2526.00	3606.00	3630.00	<u>510.00</u>
8	921.00	1488.00	1405.00	2672.00	2778.00	3096.00	<u>573.00</u>
9	892.00	1303.00	1056.00	2653.00	3513.00	3777.00	<u>428.00</u>
10	1161.00	1809.00	1390.00	2671.00	4222.00	4446.00	<u>492.00</u>
11	729.00	1348.00	1323.00	2607.00	3164.00	3409.00	<u>510.00</u>
12	1553.00	1789.00	1259.00	2601.00	4100.00	4520.00	<u>524.00</u>
13	1172.00	1746.00	1388.00	2656.00	3806.00	4181.00	<u>527.00</u>
14	1011.00	1505.00	1366.00	2585.00	3614.00	3815.00	<u>511.00</u>
15	771.00	1259.00	1223.00	2545.00	1861.00	2027.00	<u>485.00</u>
16	826.00	1407.00	1196.00	2587.00	1885.00	2197.00	<u>510.00</u>
17	1247.00	1736.00	1587.00	2648.00	3604.00	3921.00	<u>505.00</u>
18	1142.00	1721.00	1572.00	2652.00	3693.00	4190.00	<u>523.00</u>
19	1150.00	1829.00	1247.00	2724.00	3698.00	4507.00	<u>508.00</u>
20	1172.00	1650.00	1216.00	2680.00	3696.00	4045.00	<u>502.00</u>
21	1292.00	1808.00	1260.00	2572.00	4072.00	5598.00	<u>513.00</u>
22	901.00	1509.00	1189.00	2569.00	2428.00	2737.00	<u>503.00</u>
23	785.00	1233.00	1239.00	2731.00	1643.00	1939.00	<u>506.00</u>
24	1017.00	1533.00	1397.00	2668.00	4161.00	4604.00	<u>509.00</u>

25	649.00	1207.00	1278.00	2810.00	2575.00	2834.00	<u>508.00</u>
26	895.00	1543.00	1286.00	2726.00	3144.00	3377.00	<u>512.00</u>
27	1152.00	1680.00	1260.00	2703.00	4067.00	4654.00	<u>494.00</u>
28	667.00	1188.00	1263.00	2642.00	3401.00	3715.00	<u>504.00</u>
29	851.00	1410.00	1284.00	2569.00	3577.00	4117.00	<u>505.00</u>
30	1145.00	1559.00	1322.00	2716.00	4034.00	4912.00	<u>506.00</u>
31	1046.00	1600.00	1283.00	2566.00	3469.00	3786.00	<u>524.00</u>
32	741.00	1436.00	1193.00	2528.00	3681.00	4480.00	<u>505.00</u>
33	826.00	1547.00	1240.00	2541.00	4136.00	4561.00	<u>505.00</u>
34	1168.00	1679.00	1324.00	2572.00	4020.00	5569.00	<u>512.00</u>
35	648.00	1197.00	1266.00	2755.00	1398.00	1599.00	<u>511.00</u>
36	662.00	1175.00	1285.00	2680.00	1393.00	1550.00	<u>512.00</u>
37	1193.00	1783.00	1398.00	2661.00	4048.00	4556.00	<u>505.00</u>
38	-1	-1	-1	-1	-1	-1	-1
39	-1	-1	-1	-1	-1	-1	-1
40	-1	-1	-1	-1	-1	-1	-1
41	-1	-1	-1	-1	-1	-1	-1
42	-1	-1	-1	-1	-1	-1	-1
43	-1	-1	-1	-1	-1	-1	-1
44	-1	-1	-1	-1	-1	-1	-1
45	-1	-1	-1	-1	-1	-1	-1
46	-1	-1	-1	-1	-1	-1	-1
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1
52	-1	-1	-1	-1	-1	-1	-1
53	-1	-1	-1	-1	-1	-1	-1
54	-1	-1	-1	-1	-1	-1	-1
55	-1	-1	-1	-1	-1	-1	-1
56	-1	-1	-1	-1	-1	-1	-1
57	-1	-1	-1	-1	-1	-1	-1
58	-1	-1	-1	-1	-1	-1	-1
59	-1	-1	-1	-1	-1	-1	-1
60	-1	-1	-1	-1	-1	-1	-1
61	-1	-1	-1	-1	-1	-1	-1
62	-1	-1	-1	-1	-1	-1	-1
63	-1	-1	-1	-1	-1	-1	-1
64	-1	-1	-1	-1	-1	-1	-1
65	-1	-1	-1	-1	-1	-1	-1
66	-1	-1	-1	-1	-1	-1	-1
67	-1	-1	-1	-1	-1	-1	-1

68	-1	-1	-1	-1	-1	-1	-1
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Best Results:

hr\_sre\_dacc:  $37/68 = 54.41\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 97.74%

dace\_src: 155.46%

dace\_trc: 130.43%

ce\_trc: 279.09%

ce\_swc: 355.28%

ce\_cc: 398.61%

Table 26: Experiment Data

interaction-network-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	872.00	3250.00	1508.00	5742.00	9761.00	10116.00	382.00
2	1042.00	2898.00	1414.00	5782.00	11115.00	9665.00	379.00
3	790.00	2497.00	1221.00	6591.00	8984.00	9477.00	369.00
4	786.00	2022.00	1248.00	5755.00	7861.00	6927.00	377.00
5	1027.00	2914.00	1330.00	5739.00	9732.00	10039.00	385.00
6	946.00	2096.00	1256.00	6187.00	6897.00	6325.00	374.00
7	1014.00	2693.00	1372.00	5643.00	8075.00	8076.00	374.00
8	955.00	2828.00	1284.00	5737.00	9475.00	10111.00	377.00
9	1019.00	2973.00	1196.00	5947.00	10400.00	9357.00	379.00
10	873.00	2490.00	1184.00	6661.00	8056.00	8500.00	389.00
11	890.00	2713.00	1686.00	5819.00	8734.00	8287.00	388.00
12	762.00	2243.00	1654.00	5797.00	6476.00	6413.00	384.00
13	762.00	2017.00	1275.00	6424.00	9348.00	9663.00	368.00
14	851.00	3178.00	1254.00	5709.00	7436.00	7369.00	379.00
15	834.00	2111.00	1221.00	5795.00	6655.00	6659.00	388.00
16	998.00	2288.00	1358.00	5606.00	8327.00	8026.00	388.00
17	863.00	2373.00	1259.00	6343.00	6289.00	6458.00	377.00
18	899.00	2763.00	1208.00	5960.00	7735.00	8667.00	376.00
19	1073.00	2536.00	1287.00	5868.00	7600.00	7093.00	388.00
20	685.00	1632.00	1262.00	6626.00	7471.00	7432.00	376.00

21	1142.00	2757.00	1339.00	5563.00	9262.00	9538.00	<u>379.00</u>
22	943.00	2601.00	1483.00	5621.00	8968.00	8613.00	<u>378.00</u>
23	820.00	2476.00	1239.00	5919.00	9154.00	9765.00	<u>377.00</u>
24	884.00	2752.00	1211.00	5887.00	10420.00	9136.00	<u>386.00</u>
25	828.00	2542.00	1290.00	5630.00	7115.00	7208.00	<u>376.00</u>
26	795.00	2165.00	1290.00	5595.00	9983.00	8970.00	<u>368.00</u>
27	641.00	1590.00	1227.00	6337.00	3488.00	3359.00	<u>377.00</u>
28	936.00	3305.00	1316.00	5768.00	9771.00	10250.00	<u>376.00</u>
29	991.00	3047.00	1388.00	5768.00	10213.00	9223.00	<u>384.00</u>
30	764.00	2086.00	1263.00	6067.00	10064.00	9379.00	<u>380.00</u>
31	787.00	2181.00	1205.00	5972.00	10556.00	9966.00	<u>370.00</u>
32	835.00	2614.00	1659.00	5862.00	9445.00	9135.00	<u>376.00</u>
33	923.00	2440.00	1582.00	5554.00	9482.00	9393.00	<u>376.00</u>
34	1129.00	2680.00	1316.00	6289.00	7254.00	7233.00	<u>381.00</u>
35	1077.00	3053.00	1206.00	5651.00	8804.00	9144.00	<u>373.00</u>

Best Results:

hr\_sre\_dacc: 35/35 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 137.10%

dace\_src: 569.84%

dace\_trc: 250.73%

ce\_trc: 1463.93%

ce\_swc: 2167.75%

ce\_cc: 2127.04%

Table 27: Experiment Data

linkingkin2pep							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	-1	-1	-1	-1	-1	-1	-1
2	-1	-1	-1	-1	-1	-1	-1

Best Results:



- None

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 100.00%  
dace\_src: 100.00%  
dace\_trc: 100.00%  
ce\_trc: 100.00%  
ce\_swc: 100.00%  
ce\_cc: 100.00%

Table 28: Experiment Data

mged-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	17852.00	22008.00	19373.00	266616.00	-1	-1	<u>3039.00</u>
2	4058.00	6447.00	16019.00	250494.00	306335.00	290415.00	<u>3086.00</u>

Best Results:

hr\_sre\_dacc:  $2/2 = 100.00\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 259.46%  
dace\_src: 366.55%  
dace\_trc: 478.28%  
ce\_trc: 8345.13%  
ce\_swc: 4963.30%  
ce\_cc: 4705.36%

Table 29: Experiment Data

neomark-oral-cancer-centred-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	986.00	1893.00	3139.00	22115.00	19624.00	19439.00	<u>271.00</u>

Best Results:

hr\_sre\_dacc: 1/1 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 263.84%

dace\_src: 598.52%

dace\_trc: 1058.30%

ce\_trc: 8060.52%

ce\_swc: 7141.33%

ce\_cc: 7073.06%

Table 30: Experiment Data

neural-electromagnetic-ontologies							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	59368.00	71368.00	53273.00	-1	-1	-1	<u>8610.00</u>
2	44418.00	67957.00	56835.00	-1	-1	-1	<u>8684.00</u>
3	34355.00	50644.00	55581.00	-1	-1	-1	<u>8791.00</u>
4	25487.00	49318.00	83714.00	-1	-1	-1	<u>8732.00</u>
5	49136.00	69496.00	61582.00	-1	-1	-1	<u>9475.00</u>
6	59800.00	79311.00	51919.00	-1	-1	-1	<u>8844.00</u>
7	44109.00	72022.00	58526.00	-1	-1	-1	<u>9347.00</u>
8	45112.00	76375.00	57704.00	-1	-1	-1	<u>9224.00</u>
9	72816.00	80380.00	77550.00	-1	-1	-1	<u>8873.00</u>
10	97069.00	106104.00	58339.00	-1	-1	-1	<u>8314.00</u>
11	125562.00	129749.00	74700.00	-1	-1	-1	<u>7928.00</u>
12	143972.00	140721.00	52473.00	-1	-1	-1	<u>8224.00</u>
13	79780.00	107706.00	54688.00	-1	-1	-1	<u>8001.00</u>
14	168070.00	154869.00	56761.00	-1	-1	-1	<u>8526.00</u>
15	80881.00	94488.00	57752.00	-1	-1	-1	<u>8481.00</u>
16	85757.00	102214.00	49045.00	-1	-1	-1	<u>8753.00</u>
17	128239.00	136784.00	69086.00	-1	-1	-1	<u>9019.00</u>
18	256761.00	205128.00	79485.00	-1	-1	-1	<u>8523.00</u>
19	157035.00	160567.00	44529.00	-1	-1	-1	<u>8582.00</u>
20	219700.00	174562.00	56040.00	-1	-1	-1	<u>8474.00</u>
21	96910.00	111941.00	48271.00	-1	-1	-1	<u>8659.00</u>
22	98539.00	98097.00	44216.00	-1	-1	-1	<u>8302.00</u>
23	144367.00	149907.00	48805.00	-1	-1	-1	<u>8650.00</u>

24	106060.00	104907.00	85451.00	-1	-1	-1	<u>8779.00</u>
25	105393.00	115298.00	47493.00	-1	-1	-1	<u>8722.00</u>
26	164632.00	150316.00	56335.00	-1	-1	-1	<u>9070.00</u>
27	176650.00	152077.00	60544.00	-1	-1	-1	<u>8673.00</u>
28	191229.00	169711.00	44943.00	-1	-1	-1	<u>9479.00</u>
29	93837.00	127798.00	65331.00	-1	-1	-1	<u>8587.00</u>
30	113483.00	116348.00	57504.00	-1	-1	-1	<u>8537.00</u>
31	129220.00	78339.00	57782.00	-1	-1	-1	<u>6730.00</u>
32	145749.00	121734.00	39923.00	-1	-1	-1	<u>6135.00</u>
33	123257.00	97751.00	52171.00	-1	-1	-1	<u>6188.00</u>
34	22220.00	30963.00	59950.00	-1	-1	-1	<u>6715.00</u>
35	116574.00	93002.00	54684.00	-1	-1	-1	<u>6788.00</u>
36	79882.00	114452.00	51652.00	-1	-1	-1	<u>6246.00</u>
37	87400.00	23214.00	49128.00	-1	-1	-1	<u>6196.00</u>
38	107249.00	116417.00	58836.00	-1	-1	-1	<u>8366.00</u>
39	71532.00	48414.00	58432.00	-1	-1	-1	<u>6725.00</u>
40	112108.00	87109.00	39007.00	-1	-1	-1	<u>6561.00</u>
41	8945.00	12147.00	63142.00	-1	-1	-1	<u>9112.00</u>
42	118809.00	128164.00	55582.00	-1	-1	-1	<u>9755.00</u>
43	156396.00	77112.00	56989.00	-1	-1	-1	<u>6253.00</u>
44	103098.00	69333.00	42064.00	-1	-1	-1	<u>6364.00</u>
45	155249.00	179188.00	<u>75532.00</u>	-1	-1	-1	<u>78365.00</u>
46	42971.00	68992.00	59213.00	-1	-1	-1	<u>8873.00</u>
47	126152.00	98013.00	41537.00	-1	-1	-1	<u>6711.00</u>
48	153349.00	124733.00	48001.00	-1	-1	-1	<u>6893.00</u>
49	9243.00	12242.00	53919.00	-1	-1	-1	<u>8300.00</u>
50	19005.00	28642.00	47700.00	-1	-1	-1	<u>6713.00</u>
51	133831.00	124896.00	53934.00	-1	-1	-1	<u>10249.00</u>
52	140106.00	147736.00	74138.00	-1	-1	-1	<u>11025.00</u>
53	9148.00	12249.00	45493.00	-1	-1	-1	<u>6664.00</u>
54	37851.00	45400.00	57891.00	-1	-1	-1	<u>6821.00</u>
55	14197.00	20622.00	55374.00	-1	-1	-1	<u>6303.00</u>
56	81674.00	73012.00	43811.00	-1	-1	-1	<u>6215.00</u>
57	83621.00	93623.00	94776.00	-1	-1	-1	<u>10375.00</u>
58	9101.00	12168.00	46031.00	-1	-1	-1	<u>6187.00</u>
59	28911.00	36049.00	49577.00	-1	-1	-1	<u>6269.00</u>
60	19106.00	28751.00	57244.00	-1	-1	-1	<u>6114.00</u>
61	79002.00	76353.00	43601.00	-1	-1	-1	<u>6648.00</u>
62	9211.00	12197.00	47142.00	-1	-1	-1	<u>9147.00</u>
63	9008.00	12117.00	48856.00	-1	-1	-1	<u>8128.00</u>
64	95768.00	80638.00	53573.00	-1	-1	-1	<u>6169.00</u>
65	158360.00	109330.00	47421.00	-1	-1	-1	<u>6718.00</u>
66	79058.00	36054.00	53386.00	-1	-1	-1	<u>6186.00</u>

67	65660.00	60857.00	40986.00	-1	-1	-1	<u>6286.00</u>
68	46141.00	51351.00	53265.00	-1	-1	-1	<u>6012.00</u>
69	9213.00	12226.00	49739.00	-1	-1	-1	<u>8166.00</u>
70	135745.00	154039.00	45932.00	-1	-1	-1	<u>8663.00</u>
71	104582.00	55043.00	52292.00	-1	-1	-1	<u>6289.00</u>
72	<u>47885.00</u>	58503.00	68186.00	-1	-1	-1	113405.00
73	132381.00	99963.00	47089.00	-1	-1	-1	<u>5990.00</u>
74	82755.00	86931.00	46473.00	-1	-1	-1	<u>8916.00</u>
75	9001.00	12046.00	62013.00	-1	-1	-1	<u>8324.00</u>
76	133460.00	133448.00	73474.00	-1	-1	-1	<u>9069.00</u>
77	87996.00	104195.00	<u>65667.00</u>	-1	-1	-1	114005.00
78	132824.00	107316.00	48445.00	-1	-1	-1	<u>6358.00</u>
79	131369.00	115001.00	52509.00	-1	-1	-1	<u>10092.00</u>
80	151217.00	114491.00	60698.00	-1	-1	-1	<u>6249.00</u>
81	33825.00	54391.00	40781.00	-1	-1	-1	<u>9402.00</u>
82	136415.00	140060.00	70260.00	-1	-1	-1	<u>8508.00</u>
83	147490.00	115920.00	55614.00	-1	-1	-1	<u>6230.00</u>
84	39479.00	62349.00	55409.00	-1	-1	-1	<u>6757.00</u>
85	131551.00	52115.00	51260.00	-1	-1	-1	<u>6308.00</u>
86	98662.00	108576.00	58023.00	-1	-1	-1	<u>6193.00</u>
87	81322.00	70259.00	48517.00	-1	-1	-1	<u>6278.00</u>
88	41894.00	51890.00	37537.00	-1	-1	-1	<u>6021.00</u>
89	89423.00	91481.00	56011.00	-1	-1	-1	<u>10379.00</u>
90	9310.00	12169.00	56700.00	-1	-1	-1	<u>6711.00</u>
91	39079.00	43145.00	50035.00	-1	-1	-1	<u>6341.00</u>
92	14423.00	23649.00	46690.00	-1	-1	-1	<u>6225.00</u>
93	88521.00	85738.00	50059.00	-1	-1	-1	<u>6231.00</u>
94	141976.00	104094.00	49933.00	-1	-1	-1	<u>6564.00</u>
95	62063.00	112851.00	48575.00	-1	-1	-1	<u>6096.00</u>
96	9265.00	12722.00	56774.00	-1	74508.00	95328.00	<u>6179.00</u>
97	131540.00	115725.00	45181.00	-1	-1	-1	<u>6688.00</u>
98	76091.00	122330.00	44263.00	-1	-1	-1	<u>6155.00</u>
99	142076.00	141693.00	88155.00	-1	-1	-1	<u>10937.00</u>
100	78899.00	88335.00	62124.00	-1	-1	-1	122270.00
101	123536.00	88436.00	52890.00	-1	-1	-1	<u>6346.00</u>
102	146024.00	108355.00	52824.00	-1	-1	-1	<u>6141.00</u>
103	69243.00	78009.00	57075.00	-1	-1	-1	<u>9846.00</u>
104	85375.00	99252.00	<u>43010.00</u>	-1	-1	-1	116773.00
105	8932.00	12182.00	51421.00	-1	-1	-1	<u>8299.00</u>
106	117900.00	113742.00	53913.00	-1	-1	-1	<u>10225.00</u>
107	112010.00	110626.00	58454.00	-1	-1	-1	<u>10038.00</u>
108	106864.00	123839.00	49798.00	-1	-1	-1	<u>9446.00</u>
109	110577.00	55686.00	44747.00	-1	-1	-1	<u>6305.00</u>

110	73752.00	80868.00	52228.00	-1	-1	-1	<u>9280.00</u>
111	144729.00	146629.00	47582.00	-1	-1	-1	<u>10401.00</u>
112	55094.00	69621.00	44502.00	-1	-1	-1	<u>8588.00</u>
113	156122.00	164425.00	72441.00	-1	-1	-1	<u>9676.00</u>
114	80646.00	104508.00	47703.00	-1	-1	-1	<u>8836.00</u>
115	62412.00	80051.00	65023.00	-1	-1	-1	<u>8780.00</u>
116	43898.00	66590.00	48194.00	-1	-1	-1	<u>8800.00</u>
117	18812.00	38503.00	77280.00	-1	-1	-1	<u>9688.00</u>
118	72478.00	87334.00	58549.00	-1	-1	-1	<u>8774.00</u>
119	120554.00	124691.00	66508.00	-1	-1	-1	<u>8889.00</u>
120	62632.00	97855.00	49762.00	-1	-1	-1	<u>9310.00</u>
121	68165.00	92245.00	55190.00	-1	-1	-1	<u>8921.00</u>
122	58981.00	73927.00	42871.00	-1	-1	-1	<u>8800.00</u>
123	72677.00	97993.00	61134.00	-1	-1	-1	<u>9459.00</u>
124	24111.00	42748.00	112175.00	-1	-1	-1	<u>8800.00</u>
125	48464.00	64056.00	56539.00	-1	-1	-1	<u>8378.00</u>
126	19436.00	39694.00	61215.00	-1	-1	-1	<u>9368.00</u>
127	28903.00	56355.00	55842.00	-1	-1	-1	<u>8647.00</u>
128	43243.00	68101.00	49957.00	-1	-1	-1	<u>8604.00</u>
129	35199.00	57949.00	62963.00	-1	-1	-1	<u>8558.00</u>
130	33821.00	55735.00	49095.00	-1	-1	-1	<u>8858.00</u>
131	23982.00	48285.00	87271.00	-1	-1	-1	<u>8730.00</u>
132	47929.00	73440.00	70408.00	-1	-1	-1	<u>8752.00</u>
133	54849.00	86124.00	45802.00	-1	-1	-1	<u>8759.00</u>
134	43224.00	67229.00	68205.00	-1	-1	-1	<u>8748.00</u>
135	33945.00	54553.00	67346.00	-1	-1	-1	<u>8839.00</u>
136	76342.00	89965.00	80347.00	-1	-1	-1	<u>8578.00</u>
137	75294.00	93248.00	53486.00	-1	-1	-1	<u>8846.00</u>
138	78102.00	90485.00	65159.00	-1	-1	-1	<u>9222.00</u>
139	82506.00	97968.00	65443.00	-1	-1	-1	<u>9471.00</u>
140	-1	-1	-1	-1	-1	-1	-1
141	-1	-1	-1	-1	-1	-1	-1
142	-1	-1	-1	-1	-1	-1	-1
143	-1	-1	-1	-1	-1	-1	-1
144	-1	-1	-1	-1	-1	-1	-1
145	-1	-1	-1	-1	-1	-1	-1
146	-1	-1	-1	-1	-1	-1	-1
147	-1	-1	-1	-1	-1	-1	-1
148	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc: 133/148 = 89.86%;

ce\_src:  $2/148 = 1.35\%$ ;  
dace\_trc:  $4/148 = 2.70\%$ ;  
Comparing with Full Kernel Set (Average Difference in %):  
ce\_src: 890.76%  
dace\_src: 879.67%  
dace\_trc: 557.64%  
ce\_trc: 100.00%  
ce\_swc: 106.80%  
ce\_cc: 109.07%

Table 31: Experiment Data

nmr-instrument-specific-component-of-metabolomics-investigations							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	852.00	1591.00	1217.00	4630.00	4818.00	4880.00	<u>386.00</u>
2	794.00	1688.00	1317.00	4170.00	4199.00	4143.00	<u>389.00</u>
3	852.00	1484.00	1103.00	4605.00	4805.00	4791.00	<u>377.00</u>
4	948.00	1906.00	1142.00	4759.00	4348.00	4331.00	<u>374.00</u>
5	984.00	1978.00	1223.00	5010.00	5058.00	5081.00	<u>375.00</u>
6	928.00	1707.00	1070.00	4652.00	4002.00	3994.00	<u>389.00</u>
7	791.00	1906.00	1137.00	4558.00	3908.00	3790.00	<u>400.00</u>
8	971.00	2006.00	1132.00	4845.00	5095.00	4844.00	<u>370.00</u>
9	955.00	1868.00	1144.00	4621.00	4593.00	4502.00	<u>393.00</u>
10	636.00	1299.00	1155.00	4817.00	1229.00	1360.00	<u>439.00</u>
11	964.00	2075.00	1263.00	4725.00	3986.00	4004.00	<u>388.00</u>
12	981.00	1774.00	1133.00	4728.00	4563.00	4383.00	<u>390.00</u>
13	999.00	2020.00	1163.00	4694.00	4821.00	4777.00	<u>385.00</u>
14	771.00	1619.00	1221.00	4674.00	4800.00	4821.00	<u>374.00</u>
15	908.00	1714.00	1228.00	4663.00	4699.00	4790.00	<u>384.00</u>
16	928.00	2127.00	1197.00	4607.00	4713.00	4638.00	<u>398.00</u>
17	1023.00	1761.00	1122.00	4665.00	4947.00	4986.00	<u>398.00</u>
18	850.00	1714.00	1244.00	4634.00	3777.00	3710.00	<u>394.00</u>
19	940.00	1924.00	1186.00	4545.00	4989.00	4905.00	<u>402.00</u>
20	1050.00	2007.00	1261.00	4801.00	5186.00	4933.00	<u>382.00</u>
21	987.00	1931.00	1048.00	4750.00	4972.00	4854.00	<u>388.00</u>
22	939.00	1917.00	1187.00	4571.00	4040.00	4025.00	<u>392.00</u>
23	1376.00	2554.00	1291.00	4597.00	5000.00	4970.00	<u>369.00</u>
24	743.00	1634.00	1223.00	4647.00	3906.00	3832.00	<u>378.00</u>

25	756.00	1652.00	1204.00	4160.00	4921.00	4700.00	<u>378.00</u>
26	878.00	1642.00	1200.00	4896.00	3992.00	3954.00	<u>391.00</u>
27	619.00	1339.00	1195.00	4767.00	3199.00	3242.00	<u>384.00</u>
28	795.00	1466.00	1228.00	4665.00	5030.00	4993.00	<u>383.00</u>
29	674.00	1530.00	1215.00	5098.00	3792.00	3969.00	<u>376.00</u>
30	923.00	1896.00	1203.00	4670.00	5057.00	5019.00	<u>387.00</u>
31	706.00	1490.00	1177.00	4549.00	2890.00	2936.00	<u>367.00</u>
32	664.00	1412.00	1276.00	4657.00	2082.00	2152.00	<u>366.00</u>
33	936.00	1665.00	1177.00	4478.00	5171.00	4954.00	<u>387.00</u>
34	868.00	1711.00	1182.00	4631.00	4380.00	4204.00	<u>388.00</u>
35	949.00	2003.00	1208.00	4678.00	4994.00	4878.00	<u>392.00</u>
36	886.00	1901.00	1245.00	4709.00	4356.00	4225.00	<u>387.00</u>

Best Results:

hr\_sre\_dacc: 36/36 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 129.30%

dace\_src: 360.46%

dace\_trc: 209.19%

ce\_trc: 1109.41%

ce\_swc: 1027.55%

ce\_cc: 1014.92%

Table 32: Experiment Data

oboe							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	909.00	1343.00	1055.00	1888.00	2547.00	2774.00	<u>281.00</u>
2	969.00	1403.00	1041.00	1967.00	2809.00	2926.00	<u>403.00</u>
3	848.00	1352.00	1020.00	1963.00	2270.00	2445.00	<u>290.00</u>
4	726.00	1319.00	1098.00	2086.00	2588.00	2818.00	<u>416.00</u>
5	1050.00	1386.00	1034.00	2171.00	2810.00	2995.00	<u>422.00</u>
6	1037.00	1234.00	1053.00	1899.00	2443.00	2458.00	<u>331.00</u>
7	938.00	1428.00	1101.00	1814.00	2336.00	2473.00	<u>318.00</u>
8	855.00	1187.00	1045.00	1912.00	2288.00	2458.00	<u>324.00</u>
9	984.00	1394.00	934.00	1850.00	2453.00	2623.00	<u>308.00</u>

10	-1	-1	-1	-1	-1	-1	-1
11	-1	-1	-1	-1	-1	-1	-1
12	-1	-1	-1	-1	-1	-1	-1
13	-1	-1	-1	-1	-1	-1	-1
14	-1	-1	-1	-1	-1	-1	-1
15	-1	-1	-1	-1	-1	-1	-1
16	-1	-1	-1	-1	-1	-1	-1
17	-1	-1	-1	-1	-1	-1	-1
18	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc: 9/18 = 50.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 137.30%

dace\_src: 198.81%

dace\_trc: 154.70%

ce\_trc: 288.21%

ce\_swc: 369.41%

ce\_cc: 393.00%

Table 33: Experiment Data

oboe-sbc							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	2869.00	4845.00	2206.00	9974.00	16804.00	17292.00	<u>599.00</u>
2	3320.00	6851.00	2665.00	10452.00	16597.00	16303.00	<u>714.00</u>
3	2779.00	6294.00	2411.00	9974.00	13814.00	13840.00	<u>665.00</u>
4	3490.00	6140.00	2521.00	9838.00	16610.00	16868.00	<u>707.00</u>
5	2526.00	3906.00	2174.00	9792.00	15523.00	15520.00	<u>571.00</u>
6	2731.00	6434.00	2723.00	10207.00	13945.00	13825.00	<u>687.00</u>
7	1753.00	4126.00	2257.00	9914.00	17593.00	17473.00	<u>280.00</u>
8	3281.00	6128.00	2185.00	9984.00	16030.00	15756.00	<u>434.00</u>
9	2909.00	4840.00	2236.00	10241.00	17831.00	17831.00	<u>571.00</u>
10	2130.00	4483.00	2048.00	9932.00	12477.00	12389.00	<u>540.00</u>
11	3653.00	6231.00	2350.00	10616.00	17483.00	17441.00	<u>666.00</u>
12	3115.00	6541.00	2638.00	10180.00	15138.00	15099.00	<u>669.00</u>



13	3656.00	6875.00	2665.00	9773.00	17437.00	17355.00	<u>679.00</u>
14	1909.00	5086.00	2641.00	10280.00	10634.00	10622.00	<u>854.00</u>
15	2869.00	4882.00	2211.00	10099.00	18169.00	18066.00	<u>545.00</u>
16	2595.00	5185.00	2572.00	10105.00	11690.00	11876.00	<u>661.00</u>
17	3772.00	7099.00	2589.00	10315.00	18082.00	17765.00	<u>703.00</u>
18	1842.00	4417.00	2050.00	10031.00	17726.00	17398.00	<u>291.00</u>
19	3184.00	5420.00	2304.00	10618.00	18040.00	17810.00	<u>446.00</u>
20	3295.00	6207.00	2594.00	10148.00	16405.00	16512.00	<u>678.00</u>
21	3146.00	5938.00	2797.00	10270.00	16058.00	16295.00	<u>691.00</u>
22	3754.00	6334.00	2822.00	10193.00	18170.00	17859.00	<u>683.00</u>
23	2513.00	5969.00	2660.00	10088.00	11969.00	11918.00	<u>650.00</u>
24	3218.00	6217.00	2650.00	10153.00	16490.00	16199.00	<u>661.00</u>
25	3008.00	6102.00	2464.00	10085.00	15733.00	15721.00	<u>691.00</u>
26	3525.00	6346.00	2697.00	9925.00	17250.00	17401.00	<u>706.00</u>
27	3367.00	7733.00	2484.00	10021.00	16586.00	16760.00	<u>693.00</u>
28	2442.00	5081.00	2199.00	10535.00	13527.00	13555.00	<u>452.00</u>
29	1030.00	2262.00	1594.00	10446.00	14069.00	13976.00	<u>746.00</u>
30	3271.00	5807.00	2136.00	9986.00	10347.00	9919.00	<u>429.00</u>
31	2990.00	6204.00	2630.00	10230.00	14677.00	14769.00	<u>691.00</u>
32	3948.00	7366.00	2530.00	10002.00	18313.00	18031.00	<u>679.00</u>
33	6511.00	7155.00	2143.00	9790.00	18244.00	17765.00	<u>431.00</u>
34	3858.00	7658.00	2569.00	9969.00	18089.00	18089.00	<u>651.00</u>
35	2927.00	4792.00	2168.00	10020.00	17828.00	17676.00	<u>585.00</u>
36	3428.00	6759.00	2629.00	9761.00	16878.00	16314.00	<u>714.00</u>
37	1837.00	4087.00	2204.00	10092.00	9603.00	9627.00	<u>575.00</u>
38	3829.00	7125.00	2682.00	10190.00	18087.00	18291.00	<u>700.00</u>
39	3337.00	6031.00	2628.00	10016.00	16487.00	16226.00	<u>660.00</u>
40	2209.00	5873.00	2597.00	10462.00	10153.00	10019.00	<u>690.00</u>
41	1757.00	4178.00	2264.00	10217.00	9559.00	9496.00	<u>541.00</u>
42	2804.00	5633.00	2250.00	10065.00	13797.00	13824.00	<u>654.00</u>
43	3062.00	6751.00	2494.00	10086.00	15394.00	15433.00	<u>649.00</u>
44	2544.00	5898.00	2366.00	10427.00	12843.00	12470.00	<u>670.00</u>
45	2934.00	5452.00	2220.00	10211.00	18061.00	17997.00	<u>556.00</u>
46	2893.00	6189.00	2601.00	10031.00	13856.00	13837.00	<u>693.00</u>
47	1760.00	3930.00	2175.00	10248.00	9495.00	9745.00	<u>526.00</u>
48	3964.00	6947.00	2547.00	9975.00	18208.00	17726.00	<u>662.00</u>
49	1364.00	3814.00	2240.00	10350.00	5834.00	5939.00	<u>551.00</u>
50	2576.00	5860.00	2977.00	10108.00	16099.00	16403.00	<u>893.00</u>
51	2978.00	5388.00	2140.00	9924.00	18471.00	17922.00	<u>591.00</u>
52	3418.00	7467.00	2522.00	10560.00	17019.00	16953.00	<u>688.00</u>
53	2859.00	5829.00	2386.00	10475.00	13765.00	13783.00	<u>652.00</u>
54	3050.00	6369.00	2622.00	10408.00	14858.00	14824.00	<u>683.00</u>
55	1932.00	3539.00	2086.00	10307.00	9520.00	9605.00	<u>606.00</u>

56	2977.00	6934.00	2762.00	10090.00	14794.00	15003.00	<u>714.00</u>
57	1028.00	2167.00	1780.00	9758.00	11362.00	11264.00	<u>274.00</u>
58	3276.00	6020.00	2509.00	10357.00	16433.00	16962.00	<u>648.00</u>
59	2828.00	5286.00	2192.00	9936.00	17506.00	17296.00	<u>576.00</u>
60	2772.00	5876.00	2257.00	9900.00	13642.00	13923.00	<u>684.00</u>
61	3090.00	7011.00	2548.00	10052.00	15329.00	15197.00	<u>685.00</u>
62	2607.00	5985.00	2398.00	10224.00	16155.00	15849.00	<u>887.00</u>
63	2979.00	4832.00	2386.00	10176.00	18414.00	17817.00	<u>505.00</u>
64	2782.00	6386.00	2597.00	10046.00	13815.00	13845.00	<u>647.00</u>
65	1778.00	3457.00	2152.00	10201.00	9456.00	9790.00	<u>520.00</u>
66	2003.00	4204.00	2160.00	10202.00	10952.00	10809.00	<u>548.00</u>
67	3739.00	6969.00	2549.00	10264.00	17878.00	17702.00	<u>648.00</u>
68	2992.00	5965.00	2212.00	10020.00	14172.00	14247.00	<u>663.00</u>
69	2298.00	4827.00	2633.00	10663.00	10151.00	10070.00	<u>675.00</u>
70	1812.00	4063.00	2266.00	9815.00	9470.00	9624.00	<u>554.00</u>
71	2887.00	6466.00	2564.00	10423.00	13870.00	13923.00	<u>710.00</u>
72	3160.00	6654.00	2386.00	10031.00	16105.00	16068.00	<u>666.00</u>
73	2776.00	5591.00	2715.00	10190.00	13460.00	13197.00	<u>637.00</u>
74	2218.00	3960.00	2241.00	10200.00	12600.00	12740.00	<u>570.00</u>
75	1861.00	4646.00	2598.00	10316.00	10758.00	10447.00	<u>860.00</u>
76	2010.00	4571.00	2351.00	10184.00	11846.00	11745.00	<u>579.00</u>
77	2886.00	6239.00	2361.00	10184.00	14683.00	14861.00	<u>649.00</u>
78	3281.00	7200.00	2632.00	9762.00	16697.00	16306.00	<u>665.00</u>
79	2765.00	6803.00	2620.00	10549.00	13768.00	13417.00	<u>663.00</u>
80	1750.00	3863.00	2179.00	9803.00	15422.00	14891.00	<u>295.00</u>
81	3416.00	6604.00	2491.00	10550.00	16676.00	16563.00	<u>654.00</u>
82	3809.00	6732.00	2695.00	9861.00	17267.00	17047.00	<u>649.00</u>
83	3388.00	6072.00	2408.00	10169.00	16803.00	16543.00	<u>672.00</u>
84	2802.00	6245.00	2767.00	10026.00	13971.00	13998.00	<u>638.00</u>
85	2764.00	5339.00	2643.00	10155.00	13511.00	13518.00	<u>643.00</u>
86	3329.00	6106.00	2399.00	10225.00	16718.00	16756.00	<u>669.00</u>
87	2914.00	6849.00	2414.00	10573.00	14022.00	14497.00	<u>658.00</u>
88	2745.00	6383.00	2441.00	10442.00	12522.00	12462.00	<u>654.00</u>
89	3148.00	6240.00	2630.00	10140.00	15776.00	15649.00	<u>650.00</u>
90	2966.00	4720.00	2718.00	10046.00	13604.00	14265.00	<u>701.00</u>
91	2103.00	4342.00	2232.00	10984.00	12362.00	12345.00	<u>756.00</u>
92	3433.00	5777.00	2104.00	9747.00	10664.00	10920.00	<u>423.00</u>
93	3701.00	6304.00	2097.00	10288.00	16578.00	16414.00	<u>303.00</u>
94	1876.00	4491.00	2153.00	9841.00	9593.00	9652.00	<u>529.00</u>
95	3112.00	6924.00	2635.00	10021.00	15614.00	15816.00	<u>720.00</u>
96	3556.00	5903.00	2451.00	10449.00	17323.00	17272.00	<u>695.00</u>
97	1899.00	4335.00	2262.00	9983.00	9681.00	9517.00	<u>552.00</u>
98	3396.00	7071.00	2481.00	10129.00	16787.00	16888.00	<u>679.00</u>

99	2458.00	4169.00	2220.00	9979.00	15179.00	14957.00	<u>566.00</u>
100	1570.00	3297.00	2367.00	9787.00	11810.00	11727.00	<u>299.00</u>
101	1026.00	2500.00	2134.00	9741.00	14677.00	14663.00	<u>452.00</u>
102	768.00	2063.00	2287.00	10212.00	4554.00	4721.00	<u>459.00</u>
103	2646.00	6427.00	2577.00	10444.00	13042.00	13042.00	<u>677.00</u>
104	3379.00	6540.00	2718.00	9910.00	17061.00	16858.00	<u>684.00</u>
105	1573.00	4064.00	2024.00	10298.00	11810.00	11773.00	<u>300.00</u>
106	3357.00	7275.00	2762.00	10160.00	16891.00	16499.00	<u>691.00</u>
107	2685.00	5070.00	2110.00	9970.00	16887.00	16839.00	<u>585.00</u>
108	2757.00	6447.00	2572.00	9838.00	13661.00	13853.00	<u>658.00</u>

Best Results:

hr\_sre\_dacc: 108/108 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 369.54%

dace\_src: 835.17%

dace\_trc: 309.04%

ce\_trc: 1642.53%

ce\_swc: 2396.56%

ce\_cc: 2385.34%

Table 34: Experiment Data

ontology-for-drug-discovery-investigations							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1524.00	3890.00	1962.00	7373.00	13928.00	12981.00	<u>477.00</u>
2	1636.00	3882.00	1893.00	7327.00	14348.00	13571.00	<u>472.00</u>
3	1301.00	3301.00	1936.00	7326.00	13196.00	12382.00	<u>446.00</u>
4	1302.00	3133.00	1926.00	7087.00	10750.00	10195.00	<u>448.00</u>
5	1999.00	4482.00	1949.00	7564.00	13419.00	12805.00	<u>480.00</u>
6	1242.00	3270.00	1941.00	7249.00	10373.00	9933.00	<u>467.00</u>
7	1371.00	3442.00	2062.00	7412.00	12636.00	11666.00	<u>472.00</u>
8	1139.00	2581.00	1415.00	7281.00	5821.00	5556.00	<u>398.00</u>
9	1951.00	4240.00	1884.00	7348.00	11429.00	11134.00	<u>531.00</u>
10	1605.00	3262.00	1621.00	7351.00	12206.00	11617.00	<u>405.00</u>
11	<u>622.00</u>	1128.00	1728.00	7382.00	1949.00	2176.00	<u>846.00</u>

12	1304.00	3203.00	1955.00	7349.00	10013.00	9519.00	<u>569.00</u>
13	1606.00	4832.00	2338.00	7617.00	12348.00	11738.00	<u>749.00</u>
14	1760.00	4927.00	2605.00	7340.00	13036.00	12734.00	<u>957.00</u>
15	1841.00	4035.00	1706.00	7356.00	9850.00	9100.00	<u>657.00</u>
16	1760.00	3826.00	1896.00	7276.00	14503.00	12773.00	<u>456.00</u>
17	2081.00	4536.00	1929.00	7229.00	13286.00	12388.00	<u>464.00</u>
18	1778.00	4244.00	2023.00	7434.00	12881.00	11810.00	<u>484.00</u>
19	1906.00	4141.00	1814.00	7326.00	12629.00	11760.00	<u>475.00</u>
20	1227.00	3177.00	1887.00	7361.00	10364.00	9920.00	<u>474.00</u>
21	1174.00	3401.00	1636.00	7301.00	13131.00	12348.00	<u>448.00</u>
22	1491.00	3489.00	1824.00	7259.00	11383.00	10885.00	<u>472.00</u>
23	1543.00	3793.00	1593.00	7265.00	10494.00	9884.00	<u>465.00</u>
24	1489.00	4067.00	1912.00	7342.00	11775.00	11569.00	<u>482.00</u>
25	1474.00	3722.00	1871.00	7315.00	10440.00	9969.00	<u>468.00</u>
26	1545.00	3957.00	1900.00	7221.00	12405.00	11448.00	<u>469.00</u>
27	1435.00	3714.00	1942.00	7269.00	11626.00	10922.00	<u>477.00</u>
28	2572.00	4147.00	1919.00	7278.00	11459.00	10907.00	<u>471.00</u>
29	1632.00	3928.00	1938.00	7355.00	12977.00	12460.00	<u>474.00</u>
30	1218.00	3150.00	1892.00	7258.00	12784.00	12220.00	<u>470.00</u>
31	1394.00	3263.00	1822.00	7423.00	13559.00	12867.00	<u>467.00</u>
32	1787.00	4372.00	1904.00	7259.00	13300.00	12652.00	<u>470.00</u>
33	1298.00	3308.00	1855.00	7320.00	10770.00	10656.00	<u>447.00</u>
34	1128.00	3053.00	2059.00	7340.00	13167.00	12556.00	<u>467.00</u>
35	762.00	2058.00	1894.00	7377.00	6381.00	5742.00	<u>468.00</u>
36	1622.00	4152.00	2046.00	7337.00	13527.00	12862.00	<u>471.00</u>
37	1728.00	3970.00	1954.00	7411.00	13666.00	12723.00	<u>469.00</u>
38	1132.00	3016.00	2179.00	7441.00	13868.00	13118.00	<u>470.00</u>
39	1340.00	3421.00	2081.00	7325.00	13962.00	13095.00	<u>469.00</u>
40	1399.00	3135.00	1945.00	7303.00	13228.00	12854.00	<u>476.00</u>
41	1687.00	3702.00	1991.00	7246.00	13105.00	12543.00	<u>472.00</u>
42	1395.00	3429.00	1943.00	7297.00	11614.00	10884.00	<u>471.00</u>
43	1705.00	4203.00	1943.00	7428.00	12532.00	12086.00	<u>467.00</u>
44	-1	-1	-1	-1	-1	-1	-1
45	-1	-1	-1	-1	-1	-1	-1
46	-1	-1	-1	-1	-1	-1	-1
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1
52	-1	-1	-1	-1	-1	-1	-1
53	-1	-1	-1	-1	-1	-1	-1
54	-1	-1	-1	-1	-1	-1	-1

55	-1	-1	-1	-1	-1	-1	-1
56	-1	-1	-1	-1	-1	-1	-1
57	-1	-1	-1	-1	-1	-1	-1
58	-1	-1	-1	-1	-1	-1	-1
59	-1	-1	-1	-1	-1	-1	-1
60	-1	-1	-1	-1	-1	-1	-1
61	-1	-1	-1	-1	-1	-1	-1
62	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $42/62 = 67.74\%$ ;

ce\_src:  $1/62 = 1.61\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 176.67%

dace\_src: 477.20%

dace\_trc: 233.26%

ce\_trc: 1007.01%

ce\_swc: 1665.83%

ce\_cc: 1574.07%

Table 35: Experiment Data

ontology-for-general-medical-science							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	845.00	1110.00	852.00	1620.00	2097.00	2097.00	<u>440.00</u>
2	742.00	1053.00	885.00	1613.00	2041.00	2065.00	<u>429.00</u>
3	<u>416.00</u>	744.00	887.00	1565.00	1000.00	1044.00	421.00
4	767.00	1176.00	837.00	1604.00	2013.00	2051.00	<u>427.00</u>
5	674.00	1086.00	952.00	1556.00	1791.00	1859.00	<u>444.00</u>
6	979.00	1250.00	842.00	1581.00	1977.00	2003.00	<u>427.00</u>
7	604.00	1017.00	862.00	1581.00	1794.00	1817.00	<u>435.00</u>
8	791.00	1158.00	850.00	1597.00	2013.00	2027.00	<u>430.00</u>
9	596.00	945.00	768.00	1645.00	1639.00	1671.00	<u>433.00</u>
10	958.00	1243.00	963.00	1589.00	2075.00	2072.00	<u>450.00</u>
11	862.00	1219.00	843.00	1569.00	1933.00	1977.00	<u>446.00</u>

12	680.00	1024.00	912.00	1581.00	1863.00	1889.00	<u>437.00</u>
13	535.00	938.00	932.00	1576.00	1020.00	1085.00	<u>415.00</u>
14	579.00	945.00	952.00	1577.00	1033.00	1095.00	<u>435.00</u>
15	952.00	1274.00	888.00	1595.00	1877.00	1908.00	<u>429.00</u>
16	922.00	1173.00	890.00	1567.00	1876.00	1878.00	<u>446.00</u>
17	936.00	1241.00	1002.00	1604.00	1873.00	1892.00	<u>432.00</u>
18	930.00	1281.00	856.00	1685.00	2050.00	1927.00	<u>425.00</u>
19	1015.00	1314.00	869.00	1595.00	2071.00	2230.00	<u>435.00</u>
20	553.00	897.00	928.00	1576.00	1268.00	1322.00	<u>427.00</u>
21	<u>422.00</u>	742.00	885.00	1577.00	912.00	974.00	430.00
22	682.00	1116.00	940.00	1583.00	2118.00	2151.00	<u>432.00</u>
23	482.00	864.00	879.00	1591.00	1598.00	1505.00	<u>430.00</u>
24	653.00	1067.00	864.00	1567.00	1650.00	1675.00	<u>437.00</u>
25	806.00	1205.00	853.00	1608.00	2037.00	2030.00	<u>425.00</u>
26	486.00	843.00	982.00	1575.00	1784.00	1751.00	<u>425.00</u>
27	577.00	953.00	872.00	1581.00	1893.00	1908.00	<u>418.00</u>
28	789.00	1022.00	908.00	1578.00	2083.00	2042.00	<u>425.00</u>
29	719.00	1003.00	878.00	1567.00	1772.00	1829.00	<u>440.00</u>
30	563.00	831.00	939.00	1706.00	2046.00	1915.00	<u>421.00</u>
31	602.00	984.00	911.00	1586.00	1998.00	1993.00	<u>433.00</u>
32	787.00	1201.00	884.00	1624.00	2086.00	2081.00	<u>433.00</u>
33	482.00	837.00	903.00	1585.00	646.00	752.00	<u>431.00</u>
34	479.00	821.00	971.00	1576.00	625.00	750.00	<u>433.00</u>
35	796.00	1092.00	866.00	1578.00	2049.00	2040.00	<u>433.00</u>
36	-1	-1	-1	-1	-1	-1	-1
37	-1	-1	-1	-1	-1	-1	-1
38	-1	-1	-1	-1	-1	-1	-1
39	-1	-1	-1	-1	-1	-1	-1
40	-1	-1	-1	-1	-1	-1	-1
41	-1	-1	-1	-1	-1	-1	-1
42	-1	-1	-1	-1	-1	-1	-1
43	-1	-1	-1	-1	-1	-1	-1
44	-1	-1	-1	-1	-1	-1	-1
45	-1	-1	-1	-1	-1	-1	-1
46	-1	-1	-1	-1	-1	-1	-1
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1
52	-1	-1	-1	-1	-1	-1	-1
53	-1	-1	-1	-1	-1	-1	-1
54	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $33/54 = 61.11\%$ ;

ce\_src:  $2/54 = 3.70\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 76.02%

dace\_src: 127.57%

dace\_trc: 104.70%

ce\_trc: 209.66%

ce\_swc: 230.20%

ce\_cc: 233.19%

Table 36: Experiment Data

ontology-for-genetic-interval							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	999.00	1895.00	1460.00	3440.00	6220.00	6388.00	<u>408.00</u>
2	1096.00	1851.00	1383.00	3638.00	6371.00	6506.00	<u>402.00</u>
3	763.00	1400.00	1383.00	3519.00	5382.00	5505.00	<u>395.00</u>
4	1132.00	2159.00	1369.00	3449.00	5781.00	6070.00	<u>446.00</u>
5	1220.00	2124.00	1282.00	3667.00	5250.00	6444.00	<u>401.00</u>
6	581.00	1042.00	1032.00	3554.00	2443.00	3219.00	<u>455.00</u>
7	1045.00	2017.00	1378.00	3593.00	5975.00	6118.00	<u>409.00</u>
8	1236.00	2273.00	1383.00	3724.00	6001.00	6328.00	<u>400.00</u>
9	539.00	798.00	1093.00	3884.00	1006.00	363.00	<u>327.00</u>
10	<u>529.00</u>	777.00	1255.00	3968.00	1900.00	2290.00	604.00
11	845.00	1562.00	1354.00	3511.00	5320.00	5554.00	<u>404.00</u>
12	1280.00	2151.00	1380.00	3643.00	5911.00	6423.00	<u>401.00</u>
13	851.00	1423.00	1083.00	3610.00	4083.00	5063.00	<u>397.00</u>
14	1056.00	1982.00	1391.00	3553.00	5686.00	6323.00	<u>405.00</u>
15	484.00	709.00	960.00	3625.00	951.00	350.00	<u>298.00</u>
16	1001.00	1777.00	1405.00	3569.00	5061.00	5236.00	<u>417.00</u>
17	856.00	1501.00	1390.00	3608.00	4120.00	4631.00	<u>424.00</u>
18	1172.00	2160.00	1358.00	3603.00	5975.00	6239.00	<u>412.00</u>
19	764.00	1395.00	1355.00	3523.00	5306.00	5738.00	<u>394.00</u>
20	681.00	1348.00	1343.00	3656.00	1655.00	1871.00	<u>403.00</u>
21	1484.00	2133.00	1062.00	3598.00	4669.00	6204.00	<u>487.00</u>

22	1491.00	2471.00	1361.00	3626.00	5852.00	6244.00	<u>403.00</u>
23	1216.00	2219.00	1364.00	3670.00	5806.00	6265.00	<u>414.00</u>
24	1182.00	1891.00	1355.00	3463.00	6114.00	6352.00	<u>411.00</u>
25	1192.00	2252.00	1363.00	3628.00	5970.00	6254.00	<u>399.00</u>
26	1317.00	2188.00	1391.00	3726.00	5970.00	6456.00	<u>409.00</u>
27	603.00	1205.00	1354.00	3636.00	2093.00	2240.00	<u>403.00</u>
28	1309.00	2168.00	1325.00	3555.00	5726.00	6177.00	<u>606.00</u>
29	1478.00	2387.00	1413.00	3479.00	5768.00	6279.00	<u>455.00</u>
30	902.00	1658.00	1305.00	3592.00	5353.00	5503.00	<u>404.00</u>
31	774.00	1583.00	1320.00	3436.00	4700.00	5356.00	<u>408.00</u>
32	859.00	1504.00	1363.00	3496.00	5782.00	6024.00	<u>407.00</u>
33	1150.00	2071.00	1363.00	3577.00	5816.00	6134.00	<u>411.00</u>
34	1275.00	2113.00	1413.00	3649.00	5007.00	6383.00	<u>400.00</u>
35	776.00	1397.00	1374.00	3426.00	5562.00	5710.00	<u>396.00</u>
36	647.00	1151.00	1313.00	3419.00	3896.00	5301.00	<u>396.00</u>
37	1180.00	2268.00	1214.00	3580.00	6173.00	6442.00	<u>407.00</u>
38	1056.00	1687.00	1382.00	3479.00	5646.00	6056.00	<u>408.00</u>
39	536.00	729.00	1003.00	3587.00	1444.00	1626.00	<u>442.00</u>
40	850.00	1573.00	1403.00	3624.00	6105.00	6318.00	<u>403.00</u>
41	901.00	1604.00	1398.00	3633.00	6204.00	6265.00	<u>400.00</u>
42	1174.00	2297.00	1356.00	3561.00	6275.00	6428.00	<u>404.00</u>
43	950.00	1891.00	1359.00	3606.00	4986.00	5598.00	<u>404.00</u>
44	1022.00	1786.00	1493.00	3856.00	4704.00	5266.00	<u>644.00</u>
45	604.00	1181.00	1355.00	3612.00	1075.00	1264.00	<u>404.00</u>
46	898.00	1765.00	1293.00	3632.00	4916.00	5099.00	<u>404.00</u>
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $45/51 = 88.24\%$ ;

ce\_src:  $1/51 = 1.96\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 130.98%

dace\_src: 294.11%

dace\_trc: 206.80%



ce\_trc: 703.63%

ce\_swc: 966.05%

ce\_cc: 1046.66%

Table 37: Experiment Data

ontology-of-clinical-research-ocre-							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1117.00	2149.00	1707.00	8327.00	14794.00	14741.00	<u>353.00</u>
2	1660.00	3494.00	2035.00	9041.00	16164.00	15442.00	<u>509.00</u>
3	1476.00	3442.00	1961.00	8606.00	14893.00	14656.00	<u>486.00</u>
4	1246.00	2817.00	2361.00	8228.00	13994.00	14005.00	<u>477.00</u>
5	1775.00	3671.00	1987.00	9152.00	15738.00	16773.00	<u>503.00</u>
6	1518.00	3191.00	2049.00	8715.00	13334.00	12000.00	<u>479.00</u>
7	1705.00	4336.00	2020.00	8805.00	13961.00	13849.00	<u>473.00</u>
8	1582.00	3374.00	2035.00	8358.00	13542.00	13792.00	<u>447.00</u>
9	1708.00	3921.00	2068.00	8654.00	13496.00	14481.00	<u>474.00</u>
10	1695.00	3988.00	1971.00	8653.00	12373.00	13588.00	<u>481.00</u>
11	1763.00	3640.00	1808.00	10160.00	14168.00	13854.00	<u>478.00</u>
12	1439.00	2739.00	2042.00	8688.00	12189.00	12129.00	<u>473.00</u>
13	1304.00	2789.00	2220.00	8975.00	14000.00	14019.00	<u>556.00</u>
14	1588.00	3065.00	3022.00	8820.00	15571.00	16507.00	<u>519.00</u>
15	1489.00	2487.00	1565.00	8562.00	15796.00	15354.00	<u>341.00</u>
16	1410.00	2418.00	1694.00	8684.00	15382.00	15234.00	<u>335.00</u>
17	1196.00	2071.00	1618.00	8594.00	12721.00	12824.00	<u>334.00</u>
18	1327.00	2200.00	1716.00	9124.00	4047.00	4230.00	<u>330.00</u>
19	1400.00	2287.00	1766.00	9344.00	14213.00	14871.00	<u>305.00</u>
20	2059.00	3825.00	1671.00	8594.00	15811.00	15517.00	<u>299.00</u>
21	1285.00	2192.00	1555.00	8586.00	15415.00	15327.00	<u>293.00</u>
22	918.00	1679.00	1568.00	8525.00	7714.00	7820.00	<u>307.00</u>
23	1389.00	2398.00	1625.00	8562.00	11417.00	11429.00	<u>317.00</u>
24	932.00	1831.00	1728.00	8508.00	14111.00	15802.00	<u>290.00</u>
25	696.00	1323.00	1704.00	8681.00	4399.00	4128.00	<u>303.00</u>
26	1620.00	3221.00	1756.00	9554.00	15720.00	15360.00	<u>301.00</u>
27	1225.00	2319.00	1713.00	8542.00	10917.00	10915.00	<u>301.00</u>
28	1524.00	3031.00	1580.00	8609.00	13805.00	13828.00	<u>300.00</u>
29	1384.00	2549.00	1760.00	8760.00	14533.00	15164.00	<u>287.00</u>
30	914.00	1712.00	1753.00	8438.00	12873.00	13152.00	<u>282.00</u>
31	1591.00	2975.00	1736.00	8903.00	14293.00	14288.00	<u>305.00</u>
32	791.00	1200.00	1654.00	8695.00	1787.00	2139.00	<u>300.00</u>
33	1069.00	1868.00	1618.00	9848.00	12685.00	13870.00	<u>284.00</u>
34	721.00	1202.00	1792.00	8834.00	10941.00	11248.00	<u>285.00</u>

35	1408.00	2403.00	1622.00	8553.00	15003.00	15231.00	<u>300.00</u>
36	1295.00	2303.00	1739.00	8524.00	9673.00	10347.00	<u>309.00</u>
37	1206.00	2193.00	1620.00	8448.00	15920.00	15539.00	<u>294.00</u>
38	1495.00	2948.00	1764.00	8483.00	15768.00	15644.00	<u>295.00</u>
39	1852.00	4391.00	2169.00	8718.00	16322.00	16262.00	<u>485.00</u>
40	1079.00	1875.00	1566.00	9390.00	11331.00	10768.00	<u>395.00</u>
41	1591.00	3727.00	1974.00	8989.00	13505.00	13485.00	<u>305.00</u>
42	1469.00	2923.00	1780.00	8742.00	15736.00	15776.00	<u>443.00</u>
43	718.00	1212.00	1626.00	8535.00	7950.00	8030.00	<u>428.00</u>
44	1504.00	2678.00	1757.00	8605.00	8892.00	9278.00	<u>283.00</u>
45	3488.00	3532.00	2015.00	9110.00	18057.00	18567.00	<u>418.00</u>
46	1664.00	3523.00	2166.00	8674.00	15336.00	14804.00	<u>303.00</u>
47	1310.00	2335.00	1594.00	9000.00	12786.00	12730.00	<u>416.00</u>
48	1512.00	3253.00	2057.00	9675.00	11986.00	13096.00	<u>481.00</u>
49	1216.00	2132.00	1637.00	8826.00	6457.00	6566.00	<u>677.00</u>
50	905.00	1700.00	1956.00	8668.00	9473.00	10756.00	<u>418.00</u>
51	1956.00	3394.00	2117.00	8955.00	12969.00	12032.00	<u>474.00</u>
52	1670.00	3618.00	1889.00	8876.00	13702.00	13836.00	<u>465.00</u>
53	1088.00	2173.00	1760.00	8778.00	4302.00	5141.00	<u>461.00</u>
54	1315.00	2167.00	1585.00	8722.00	8560.00	9885.00	<u>421.00</u>
55	1395.00	2777.00	2069.00	8773.00	12762.00	12839.00	<u>469.00</u>
56	1571.00	3896.00	2095.00	8686.00	12435.00	14713.00	<u>304.00</u>
57	1454.00	2706.00	1601.00	8611.00	13994.00	12862.00	<u>382.00</u>
58	1402.00	3415.00	2483.00	8924.00	8154.00	8300.00	<u>726.00</u>
59	716.00	1223.00	1563.00	8716.00	6924.00	8047.00	<u>396.00</u>
60	1137.00	2401.00	1504.00	8713.00	6890.00	8054.00	<u>747.00</u>
61	840.00	1600.00	2122.00	9815.00	5709.00	6161.00	<u>491.00</u>
62	1770.00	3444.00	1819.00	9141.00	14542.00	14597.00	<u>421.00</u>
63	2514.00	3640.00	2304.00	9268.00	16851.00	16500.00	<u>462.00</u>
64	1407.00	2753.00	1748.00	8610.00	9729.00	9714.00	<u>503.00</u>
65	4053.00	5393.00	1988.00	8409.00	16070.00	15735.00	<u>545.00</u>
66	1303.00	3095.00	1928.00	8433.00	10225.00	10422.00	<u>387.00</u>
67	1580.00	3050.00	1727.00	8595.00	12306.00	14682.00	<u>382.00</u>
68	1181.00	1990.00	1625.00	8516.00	4651.00	5652.00	<u>286.00</u>
69	1630.00	4111.00	2289.00	9566.00	16314.00	14929.00	<u>530.00</u>
70	3002.00	6762.00	2041.00	8399.00	10551.00	11454.00	<u>537.00</u>
71	903.00	1836.00	1678.00	8490.00	5959.00	7202.00	<u>314.00</u>
72	3805.00	6765.00	2088.00	8460.00	15589.00	16403.00	<u>467.00</u>
73	2164.00	4643.00	1940.00	8374.00	8128.00	7767.00	<u>540.00</u>
74	3530.00	5355.00	2160.00	8550.00	14275.00	14700.00	<u>391.00</u>
75	1422.00	2355.00	1577.00	8554.00	4160.00	4627.00	<u>374.00</u>
76	921.00	2235.00	1934.00	9838.00	4723.00	5586.00	<u>651.00</u>
77	2355.00	4636.00	1994.00	8702.00	8944.00	9096.00	<u>413.00</u>

78	2816.00	4847.00	2114.00	8503.00	10558.00	10701.00	<u>540.00</u>
79	2113.00	3150.00	1613.00	8592.00	13269.00	14268.00	<u>465.00</u>
80	2424.00	3174.00	1707.00	8407.00	9614.00	9657.00	<u>338.00</u>
81	-1	-1	-1	-1	-1	-1	-1
82	-1	-1	-1	-1	-1	-1	-1
83	-1	-1	-1	-1	-1	-1	-1
84	-1	-1	-1	-1	-1	-1	-1
85	-1	-1	-1	-1	-1	-1	-1
86	-1	-1	-1	-1	-1	-1	-1
87	-1	-1	-1	-1	-1	-1	-1
88	-1	-1	-1	-1	-1	-1	-1
89	-1	-1	-1	-1	-1	-1	-1
90	-1	-1	-1	-1	-1	-1	-1
91	-1	-1	-1	-1	-1	-1	-1
92	-1	-1	-1	-1	-1	-1	-1
93	-1	-1	-1	-1	-1	-1	-1
94	-1	-1	-1	-1	-1	-1	-1
95	-1	-1	-1	-1	-1	-1	-1
96	-1	-1	-1	-1	-1	-1	-1
97	-1	-1	-1	-1	-1	-1	-1
98	-1	-1	-1	-1	-1	-1	-1
99	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $80/99 = 80.81\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 256.84%

dace\_src: 534.55%

dace\_trc: 321.04%

ce\_trc: 1771.80%

ce\_swc: 2435.58%

ce\_cc: 2492.39%

Table 38: Experiment Data

<b>ontology-of-medically-related-social-entities</b>
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i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	719.00	976.00	980.00	1299.00	1679.00	1800.00	<u>433.00</u>
2	675.00	950.00	1017.00	1294.00	1539.00	1596.00	<u>431.00</u>
3	<u>397.00</u>	663.00	969.00	1398.00	1130.00	1205.00	421.00
4	641.00	888.00	1023.00	1275.00	1480.00	1578.00	<u>426.00</u>
5	<u>385.00</u>	652.00	789.00	1277.00	1198.00	1000.00	437.00
6	586.00	866.00	759.00	1328.00	1666.00	1694.00	<u>429.00</u>
7	<u>433.00</u>	753.00	804.00	1225.00	1155.00	1004.00	435.00
8	712.00	1026.00	830.00	1569.00	1628.00	1664.00	433.00
9	720.00	1000.00	761.00	1549.00	1636.00	1724.00	427.00
10	741.00	1001.00	827.00	1662.00	1596.00	1599.00	<u>442.00</u>
11	557.00	865.00	783.00	1274.00	1396.00	1438.00	<u>445.00</u>
12	638.00	1022.00	781.00	1278.00	1603.00	1655.00	<u>438.00</u>
13	480.00	789.00	764.00	1277.00	1138.00	1196.00	<u>419.00</u>
14	591.00	898.00	772.00	1269.00	1161.00	1278.00	<u>433.00</u>
15	516.00	930.00	753.00	1299.00	1341.00	1378.00	<u>426.00</u>
16	623.00	913.00	755.00	1305.00	1447.00	1487.00	<u>443.00</u>
17	472.00	761.00	794.00	1277.00	1210.00	1272.00	<u>428.00</u>
18	701.00	921.00	759.00	1298.00	1505.00	1501.00	<u>431.00</u>
19	778.00	1019.00	768.00	1293.00	1567.00	1712.00	<u>434.00</u>
20	481.00	807.00	764.00	1287.00	1421.00	1423.00	<u>424.00</u>
21	435.00	718.00	860.00	1275.00	1012.00	1109.00	<u>428.00</u>
22	588.00	894.00	762.00	1329.00	1601.00	1642.00	<u>429.00</u>
23	481.00	782.00	769.00	1294.00	1462.00	1621.00	<u>427.00</u>
24	701.00	892.00	798.00	1297.00	1578.00	1672.00	433.00
25	712.00	954.00	778.00	1349.00	1577.00	1516.00	429.00
26	<u>384.00</u>	648.00	743.00	1280.00	1108.00	1164.00	421.00
27	586.00	823.00	776.00	1290.00	1267.00	1261.00	427.00
28	671.00	966.00	754.00	1328.00	1568.00	1789.00	434.00
29	636.00	971.00	761.00	1310.00	1536.00	1593.00	<u>436.00</u>
30	<u>386.00</u>	645.00	773.00	1341.00	1386.00	1367.00	430.00
31	436.00	741.00	760.00	1311.00	1468.00	1525.00	<u>430.00</u>
32	724.00	1017.00	808.00	1313.00	1602.00	1689.00	<u>430.00</u>
33	480.00	821.00	772.00	1315.00	863.00	1181.00	<u>429.00</u>
34	476.00	785.00	794.00	1321.00	851.00	1098.00	<u>437.00</u>
35	711.00	1045.00	740.00	1281.00	1596.00	2029.00	<u>433.00</u>
36	-1	-1	-1	-1	-1	-1	-1
37	-1	-1	-1	-1	-1	-1	-1
38	-1	-1	-1	-1	-1	-1	-1
39	-1	-1	-1	-1	-1	-1	-1
40	-1	-1	-1	-1	-1	-1	-1
41	-1	-1	-1	-1	-1	-1	-1
42	-1	-1	-1	-1	-1	-1	-1

43	-1	-1	-1	-1	-1	-1	-1
44	-1	-1	-1	-1	-1	-1	-1
45	-1	-1	-1	-1	-1	-1	-1
46	-1	-1	-1	-1	-1	-1	-1
47	-1	-1	-1	-1	-1	-1	-1
48	-1	-1	-1	-1	-1	-1	-1
49	-1	-1	-1	-1	-1	-1	-1
50	-1	-1	-1	-1	-1	-1	-1
51	-1	-1	-1	-1	-1	-1	-1
52	-1	-1	-1	-1	-1	-1	-1

Best Results:

hr\_sre\_dacc:  $30/52 = 57.69\%$ ;

ce\_src:  $5/52 = 9.62\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 55.66%

dace\_src: 100.94%

dace\_trc: 90.78%

ce\_trc: 172.24%

ce\_swc: 183.77%

ce\_cc: 194.89%

Table 39: Experiment Data

phare							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	493.00	624.00	809.00	2628.00	1743.00	1828.00	<u>263.00</u>
2	793.00	1126.00	861.00	2669.00	2420.00	2535.00	<u>271.00</u>
3	541.00	993.00	879.00	2643.00	4349.00	3403.00	<u>267.00</u>
4	548.00	1088.00	926.00	2713.00	2994.00	2811.00	<u>268.00</u>
5	460.00	632.00	872.00	2636.00	1327.00	1374.00	<u>266.00</u>
6	445.00	632.00	833.00	2584.00	743.00	804.00	<u>264.00</u>
7	547.00	980.00	896.00	2565.00	3286.00	3258.00	<u>268.00</u>
8	547.00	983.00	900.00	2636.00	2616.00	2620.00	<u>269.00</u>
9	939.00	1471.00	1124.00	2655.00	3544.00	3500.00	<u>288.00</u>

10	729.00	1396.00	958.00	2462.00	2122.00	2164.00	<u>268.00</u>
11	549.00	1188.00	845.00	2664.00	2837.00	3413.00	<u>265.00</u>
12	1190.00	1988.00	957.00	2637.00	2871.00	3476.00	<u>269.00</u>
13	540.00	995.00	836.00	2586.00	3165.00	3229.00	<u>266.00</u>
14	552.00	963.00	835.00	2636.00	2928.00	3046.00	<u>266.00</u>
15	471.00	626.00	837.00	3027.00	1818.00	1987.00	<u>265.00</u>
16	454.00	644.00	884.00	3240.00	1880.00	1840.00	<u>265.00</u>
17	540.00	980.00	886.00	2631.00	3135.00	3146.00	<u>264.00</u>
18	545.00	1006.00	843.00	2703.00	2822.00	2769.00	<u>265.00</u>
19	1214.00	1570.00	1003.00	2705.00	2908.00	3018.00	<u>269.00</u>
20	841.00	1368.00	1233.00	2566.00	3037.00	3044.00	<u>280.00</u>
21	541.00	973.00	1088.00	2614.00	3173.00	3011.00	<u>268.00</u>
22	539.00	949.00	1295.00	2614.00	3089.00	3156.00	<u>266.00</u>
23	613.00	921.00	937.00	2677.00	3222.00	2963.00	<u>264.00</u>
24	544.00	911.00	982.00	2554.00	3862.00	3253.00	<u>266.00</u>
25	544.00	912.00	799.00	2566.00	3803.00	3592.00	<u>269.00</u>
26	542.00	964.00	917.00	2615.00	3094.00	2992.00	<u>266.00</u>
27	541.00	969.00	884.00	2637.00	2715.00	2775.00	<u>265.00</u>
28	448.00	638.00	874.00	2775.00	1315.00	1361.00	<u>268.00</u>
29	544.00	974.00	908.00	2620.00	3232.00	3163.00	<u>266.00</u>
30	536.00	984.00	972.00	2791.00	2586.00	2755.00	<u>269.00</u>
31	624.00	986.00	834.00	2594.00	3310.00	3329.00	<u>267.00</u>
32	448.00	626.00	870.00	2666.00	1746.00	1769.00	<u>266.00</u>
33	537.00	912.00	819.00	2781.00	2691.00	2675.00	<u>269.00</u>
34	550.00	903.00	853.00	2509.00	3538.00	3566.00	<u>263.00</u>

Best Results:

hr\_sre\_dacc: 34/34 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 124.66%

dace\_src: 271.51%

dace\_trc: 243.19%

ce\_trc: 896.17%

ce\_swc: 931.55%

ce\_cc: 928.30%

Table 40: Experiment Data

pilot-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	488.00	730.00	641.00	829.00	742.00	777.00	<u>373.00</u>

Best Results:

hr\_sre\_dacc: 1/1 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 30.83%

dace\_src: 95.71%

dace\_trc: 71.85%

ce\_trc: 122.25%

ce\_swc: 98.93%

ce\_cc: 108.31%

Table 41: Experiment Data

plant-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1089.00	4928.00	2029.00	19725.00	38839.00	36956.00	<u>313.00</u>
2	952.00	4994.00	2184.00	20076.00	20654.00	20379.00	<u>314.00</u>

Best Results:

hr\_sre\_dacc: 2/2 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 225.55%

dace\_src: 1482.44%

dace\_trc: 571.89%

ce\_trc: 6247.77%

ce\_swc: 9393.17%

ce\_cc: 9048.58%

Table 42: Experiment Data

protein-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	1348.00	1815.00	1131.00	4607.00	5089.00	5157.00	<u>837.00</u>
2	1331.00	1997.00	<u>1038.00</u>	4580.00	5241.00	5069.00	1044.00
3	1479.00	2208.00	1127.00	4578.00	5147.00	5053.00	<u>944.00</u>
4	1424.00	2349.00	1300.00	4677.00	5153.00	5321.00	<u>778.00</u>
5	1214.00	2008.00	1381.00	4545.00	5290.00	5183.00	<u>746.00</u>
6	942.00	1756.00	1079.00	4621.00	5292.00	5229.00	<u>725.00</u>
7	1447.00	2480.00	1287.00	4578.00	5085.00	5159.00	<u>681.00</u>
8	725.00	1806.00	1045.00	4666.00	3242.00	3285.00	<u>665.00</u>
9	942.00	1934.00	1199.00	4631.00	5023.00	5179.00	<u>702.00</u>
10	1253.00	2036.00	1370.00	4608.00	5049.00	5165.00	<u>783.00</u>
11	1147.00	1904.00	1270.00	4610.00	5144.00	5065.00	<u>669.00</u>
12	1036.00	1955.00	1461.00	4654.00	5087.00	5200.00	<u>881.00</u>
13	<u>993.00</u>	1856.00	1074.00	4567.00	5192.00	5262.00	1058.00
14	1037.00	1779.00	1100.00	4570.00	5184.00	5113.00	<u>736.00</u>
15	821.00	1519.00	1440.00	4694.00	5129.00	5249.00	<u>739.00</u>
16	1146.00	1839.00	1186.00	4554.00	5071.00	5152.00	<u>786.00</u>
17	930.00	1662.00	1130.00	4689.00	5203.00	5193.00	<u>718.00</u>
18	1031.00	1979.00	1090.00	4608.00	4990.00	5191.00	<u>725.00</u>
19	810.00	1495.00	1163.00	4635.00	5058.00	5150.00	<u>702.00</u>
20	957.00	1816.00	1098.00	4892.00	5196.00	5163.00	<u>676.00</u>
21	1032.00	1784.00	1093.00	4652.00	5085.00	5107.00	<u>1005.00</u>
22	1332.00	2170.00	1049.00	4609.00	5206.00	5255.00	<u>675.00</u>
23	1086.00	1698.00	1092.00	4643.00	5150.00	5268.00	<u>997.00</u>
24	1336.00	2250.00	1072.00	4614.00	5148.00	5080.00	<u>809.00</u>
25	1065.00	1781.00	1093.00	4618.00	5096.00	5306.00	<u>761.00</u>
26	1183.00	1999.00	1075.00	4561.00	5127.00	5202.00	<u>1042.00</u>
27	980.00	1782.00	1083.00	4671.00	5258.00	5240.00	<u>845.00</u>
28	1112.00	1782.00	1075.00	4591.00	5082.00	5129.00	<u>712.00</u>

Best Results:

hr\_sre\_dacc:  $26/28 = 92.86\%$ ;

dace\_trc:  $1/28 = 3.57\%$ ;

ce\_src:  $1/28 = 3.57\%$ ;



Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 40.92%  
dace\_src: 143.22%  
dace\_trc: 48.83%  
ce\_trc: 490.18%  
ce\_swc: 545.06%  
ce\_cc: 550.27%

Table 43: Experiment Data

semanticscience-integrated-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	-1	-1	-1	-1	-1	-1	-1
2	-1	-1	-1	-1	-1	-1	-1
3	<u>2132.00</u>	7368.00	-1	-1	-1	-1	-1
4	-1	-1	-1	-1	-1	-1	<u>314.00</u>
5	1196.00	3241.00	1715.00	14099.00	15378.00	15265.00	<u>317.00</u>
6	-1	-1	-1	-1	-1	-1	-1
7	-1	-1	-1	-1	-1	-1	-1
8	1290.00	4206.00	2271.00	14209.00	25200.00	24666.00	<u>344.00</u>
9	-1	-1	2417.00	14587.00	-1	-1	<u>526.00</u>
10	<u>1144.00</u>	3581.00	-1	-1	15700.00	15574.00	-1
11	-1	-1	2319.00	14185.00	-1	-1	<u>697.00</u>
12	1062.00	2875.00	1873.00	13962.00	22837.00	22757.00	<u>311.00</u>
13	1195.00	4226.00	2313.00	14173.00	10436.00	10600.00	<u>352.00</u>
14	977.00	2902.00	2310.00	14208.00	7144.00	7283.00	<u>358.00</u>
15	-1	-1	-1	-1	-1	-1	<u>285.00</u>
16	-1	-1	-1	-1	-1	-1	<u>288.00</u>
17	1475.00	4439.00	2453.00	14168.00	25980.00	25193.00	<u>373.00</u>
18	-1	-1	-1	-1	-1	-1	<u>378.00</u>
19	-1	-1	-1	-1	-1	-1	<u>339.00</u>
20	1215.00	4036.00	2327.00	14311.00	25574.00	24983.00	<u>352.00</u>
21	1141.00	4085.00	2299.00	14262.00	21554.00	21324.00	<u>353.00</u>
22	1220.00	3210.00	1865.00	14135.00	7778.00	7897.00	<u>318.00</u>
23	1459.00	3352.00	1999.00	14070.00	23190.00	23213.00	<u>315.00</u>
24	-1	-1	-1	-1	-1	-1	-1
25	1284.00	2801.00	1896.00	14231.00	25297.00	25031.00	<u>333.00</u>
26	758.00	1422.00	1920.00	14281.00	14089.00	14318.00	<u>384.00</u>
27	728.00	1421.00	1917.00	14222.00	9920.00	9820.00	<u>381.00</u>
28	878.00	1965.00	1792.00	14414.00	9851.00	9989.00	<u>328.00</u>

29	874.00	2528.00	2273.00	14347.00	13974.00	13997.00	<u>373.00</u>
30	996.00	2920.00	2321.00	14458.00	15550.00	15553.00	<u>367.00</u>
31	1241.00	3782.00	2473.00	14226.00	24667.00	24024.00	<u>373.00</u>
32	1227.00	4215.00	2213.00	14290.00	25071.00	23791.00	<u>364.00</u>
33	-1	-1	-1	-1	-1	-1	<u>266.00</u>
34	960.00	2127.00	1986.00	14416.00	19440.00	19154.00	<u>321.00</u>
35	-1	-1	1863.00	14245.00	-1	-1	<u>466.00</u>
36	-1	-1	-1	-1	-1	-1	<u>469.00</u>
37	-1	-1	-1	-1	-1	-1	<u>380.00</u>
38	1333.00	3700.00	2241.00	14432.00	19305.00	19365.00	<u>359.00</u>
39	1391.00	4607.00	2238.00	14349.00	22509.00	22130.00	<u>360.00</u>
40	-1	-1	-1	-1	-1	-1	<u>359.00</u>
41	1513.00	5266.00	-1	-1	-1	-1	<u>515.00</u>
42	1600.00	5437.00	2217.00	14172.00	18976.00	19327.00	<u>344.00</u>
43	1191.00	3134.00	2312.00	14212.00	25555.00	25434.00	<u>441.00</u>
44	<u>1189.00</u>	3892.00	-1	-1	-1	-1	-1
45	1900.00	5482.00	2280.00	14448.00	23078.00	22822.00	<u>384.00</u>
46	2052.00	4978.00	2387.00	14125.00	26002.00	25474.00	<u>362.00</u>
47	1814.00	4075.00	1794.00	13893.00	23064.00	23033.00	<u>327.00</u>
48	2137.00	4176.00	1816.00	13978.00	26418.00	25635.00	<u>321.00</u>
49	1117.00	2498.00	2034.00	14105.00	25259.00	24984.00	<u>329.00</u>
50	1038.00	2535.00	2042.00	14351.00	24298.00	24250.00	<u>326.00</u>
51	1193.00	3946.00	2279.00	14343.00	21281.00	21443.00	<u>348.00</u>
52	953.00	2519.00	2188.00	14247.00	20137.00	19999.00	<u>346.00</u>
53	-1	-1	-1	-1	-1	-1	-1
54	1205.00	3623.00	2176.00	14374.00	24542.00	24544.00	<u>362.00</u>
55	1197.00	3580.00	2251.00	14283.00	24934.00	24548.00	<u>365.00</u>

Best Results:

ce\_src: 3/55 = 5.45%;

hr\_sre\_dacc: 46/55 = 83.64%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: -7932.02%

dace\_src: -26407.38%

dace\_trc: 355.84%

ce\_trc: 2556.52%

ce\_swc: -25093.98%

ce\_cc: -24897.94%

Table 44: Experiment Data

sequence-types-and-features							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swk	ce_cc	hr_sre_dacc
1	1771.00	9653.00	3060.00	29427.00	36095.00	36769.00	<u>291.00</u>
2	1654.00	8484.00	2912.00	30216.00	65028.00	62911.00	<u>288.00</u>
3	1419.00	8007.00	2789.00	30730.00	41408.00	42192.00	<u>557.00</u>
4	1879.00	10542.00	2798.00	31122.00	59966.00	57648.00	<u>334.00</u>
5	2759.00	12342.00	2636.00	29775.00	47089.00	46036.00	<u>288.00</u>
6	1863.00	10555.00	3218.00	30872.00	67919.00	63978.00	<u>335.00</u>
7	3775.00	16811.00	2728.00	29964.00	59452.00	59484.00	<u>290.00</u>
8	3449.00	15978.00	2855.00	30305.00	41632.00	40262.00	<u>298.00</u>
9	1307.00	7035.00	3036.00	30764.00	32740.00	33828.00	<u>309.00</u>
10	5126.00	19784.00	2852.00	29905.00	67791.00	65020.00	<u>291.00</u>
11	2061.00	12246.00	2904.00	29937.00	66162.00	63295.00	<u>295.00</u>
12	1968.00	10136.00	2823.00	30187.00	65423.00	63327.00	<u>294.00</u>
13	1991.00	10643.00	2336.00	29848.00	63586.00	62829.00	<u>296.00</u>
14	1830.00	10843.00	2920.00	29706.00	64128.00	64098.00	<u>294.00</u>
15	1777.00	8644.00	2722.00	30044.00	66234.00	61757.00	<u>292.00</u>
16	1616.00	9738.00	2700.00	29256.00	63725.00	61728.00	<u>299.00</u>
17	3618.00	16067.00	2339.00	29846.00	60993.00	58219.00	<u>291.00</u>
18	4089.00	15957.00	2800.00	30668.00	64075.00	61368.00	<u>288.00</u>
19	3351.00	16545.00	2850.00	30033.00	57260.00	55597.00	<u>292.00</u>
20	1289.00	5768.00	2842.00	29709.00	64181.00	62252.00	<u>293.00</u>
21	1863.00	9632.00	2801.00	29739.00	23025.00	23361.00	<u>299.00</u>
22	3511.00	14992.00	2920.00	29762.00	55163.00	55481.00	<u>317.00</u>
23	2200.00	9752.00	2746.00	29488.00	54583.00	47315.00	<u>298.00</u>
24	1402.00	7027.00	2749.00	29739.00	60102.00	58639.00	<u>292.00</u>
25	4090.00	16352.00	2666.00	30482.00	63535.00	61103.00	<u>300.00</u>
26	1836.00	7321.00	2927.00	30630.00	67564.00	66099.00	<u>342.00</u>
27	1049.00	4613.00	2823.00	29657.00	19289.00	19688.00	<u>305.00</u>
28	1582.00	8671.00	2920.00	29941.00	65158.00	64339.00	<u>290.00</u>
29	1726.00	10376.00	2430.00	30149.00	66990.00	64037.00	<u>298.00</u>
30	1221.00	5954.00	2807.00	29435.00	39373.00	39368.00	<u>300.00</u>
31	1759.00	8859.00	2787.00	29969.00	32397.00	32597.00	<u>296.00</u>
32	1953.00	11544.00	2670.00	29708.00	35317.00	34571.00	<u>299.00</u>
33	4228.00	17912.00	2943.00	30838.00	62992.00	61691.00	<u>303.00</u>
34	1870.00	9068.00	2926.00	30642.00	62142.00	60990.00	<u>376.00</u>
35	1786.00	11510.00	3737.00	30360.00	64275.00	63702.00	<u>675.00</u>
36	1501.00	9338.00	3279.00	30064.00	63067.00	62239.00	<u>585.00</u>
37	1402.00	8121.00	3037.00	30864.00	44359.00	44489.00	<u>1232.00</u>
38	1498.00	7527.00	2752.00	29310.00	25470.00	25668.00	<u>303.00</u>
39	1521.00	8435.00	2695.00	30428.00	56799.00	55727.00	<u>336.00</u>

40	1382.00	7037.00	2867.00	30148.00	54866.00	55879.00	<u>584.00</u>
41	4219.00	14408.00	2926.00	30264.00	63170.00	61487.00	<u>301.00</u>
42	3127.00	12118.00	2922.00	29331.00	44942.00	44020.00	<u>293.00</u>
43	1411.00	8041.00	2789.00	30384.00	45508.00	45503.00	<u>424.00</u>
44	1402.00	7902.00	3164.00	31078.00	67010.00	63331.00	<u>308.00</u>
45	1392.00	6164.00	2850.00	29506.00	33953.00	34500.00	<u>311.00</u>
46	1526.00	9473.00	2884.00	30081.00	58278.00	57094.00	<u>374.00</u>
47	1785.00	11249.00	2563.00	30405.00	62775.00	61391.00	<u>295.00</u>
48	1776.00	7785.00	2800.00	29373.00	45664.00	44149.00	<u>301.00</u>
49	1708.00	9774.00	2877.00	29271.00	41070.00	40627.00	<u>302.00</u>
50	1878.00	8021.00	2844.00	30096.00	57612.00	55653.00	<u>299.00</u>
51	1291.00	6165.00	2939.00	29880.00	61534.00	58958.00	<u>294.00</u>
52	2778.00	14012.00	2738.00	29823.00	62695.00	61420.00	<u>288.00</u>
53	1193.00	6109.00	2729.00	29753.00	37744.00	37831.00	<u>294.00</u>
54	1183.00	5590.00	2974.00	29826.00	61035.00	59996.00	<u>298.00</u>
55	1528.00	7815.00	2602.00	29925.00	64693.00	61005.00	<u>291.00</u>
56	1923.00	9381.00	2922.00	29583.00	67652.00	63493.00	<u>288.00</u>
57	1176.00	6080.00	2579.00	30069.00	60320.00	59096.00	<u>301.00</u>
58	1900.00	7776.00	2538.00	29275.00	66678.00	65274.00	<u>311.00</u>
59	1773.00	7981.00	2616.00	30444.00	63562.00	60487.00	<u>298.00</u>
60	3985.00	18164.00	2620.00	29832.00	60895.00	59759.00	<u>290.00</u>
61	2151.00	10836.00	2745.00	29779.00	21642.00	21700.00	<u>292.00</u>
62	2326.00	11429.00	2841.00	29088.00	45942.00	45292.00	<u>289.00</u>
63	1832.00	10021.00	2889.00	30055.00	65521.00	63220.00	<u>315.00</u>
64	1845.00	9992.00	2777.00	28947.00	45392.00	45217.00	<u>309.00</u>
65	1464.00	6157.00	2849.00	31027.00	48078.00	47489.00	<u>361.00</u>
66	2003.00	10552.00	2787.00	30920.00	58998.00	59112.00	<u>309.00</u>
67	2089.00	11466.00	3117.00	31089.00	66140.00	63367.00	<u>301.00</u>
68	1418.00	8088.00	2985.00	29854.00	44267.00	43183.00	<u>351.00</u>
69	2843.00	13699.00	3019.00	30652.00	64915.00	62899.00	<u>304.00</u>
70	1075.00	4486.00	2962.00	30740.00	32894.00	33066.00	<u>401.00</u>
71	1385.00	6431.00	2900.00	30910.00	9619.00	9844.00	<u>396.00</u>
72	1078.00	4579.00	2907.00	30753.00	6207.00	6289.00	<u>312.00</u>
73	1807.00	7713.00	2828.00	30835.00	58681.00	58308.00	<u>297.00</u>
74	1056.00	4564.00	2491.00	29938.00	10291.00	10511.00	<u>389.00</u>
75	1508.00	9445.00	2841.00	30238.00	59481.00	58756.00	<u>314.00</u>
76	2003.00	9740.00	2987.00	30008.00	37193.00	37228.00	<u>293.00</u>
77	1908.00	10878.00	2723.00	29812.00	65371.00	63218.00	<u>308.00</u>
78	1433.00	7480.00	2921.00	30436.00	62402.00	61551.00	<u>461.00</u>
79	4385.00	16239.00	2663.00	30810.00	66789.00	64972.00	<u>300.00</u>
80	1522.00	7947.00	2394.00	30090.00	62711.00	62143.00	<u>314.00</u>
81	1205.00	5801.00	2902.00	31061.00	12792.00	12994.00	<u>317.00</u>
82	1468.00	7147.00	2833.00	29512.00	24034.00	24222.00	<u>325.00</u>

83	1546.00	7932.00	3086.00	29621.00	65657.00	64149.00	<u>387.00</u>
84	1049.00	4514.00	2766.00	29457.00	14957.00	14854.00	<u>328.00</u>
85	1713.00	7412.00	2794.00	29408.00	67212.00	65305.00	<u>356.00</u>
86	1616.00	8759.00	2688.00	29310.00	64338.00	63546.00	<u>299.00</u>
87	1316.00	7646.00	2930.00	31009.00	32159.00	31587.00	<u>839.00</u>
88	1636.00	7243.00	3519.00	30616.00	68104.00	65125.00	<u>648.00</u>
89	2065.00	10112.00	2865.00	30017.00	61409.00	59384.00	<u>283.00</u>
90	1282.00	5729.00	2929.00	30146.00	42926.00	42129.00	<u>318.00</u>
91	1525.00	8497.00	2753.00	29775.00	66800.00	64119.00	<u>339.00</u>
92	1608.00	8402.00	2710.00	30080.00	60924.00	59024.00	<u>284.00</u>
93	2715.00	11019.00	2839.00	29957.00	63964.00	62171.00	<u>302.00</u>
94	1775.00	8914.00	2680.00	29929.00	44855.00	44175.00	<u>410.00</u>
95	1183.00	5491.00	2791.00	29648.00	15225.00	15575.00	<u>357.00</u>
96	1276.00	6708.00	2872.00	30018.00	64926.00	60846.00	<u>301.00</u>
97	1386.00	6832.00	2955.00	29593.00	67235.00	63615.00	<u>294.00</u>
98	1726.00	8006.00	2386.00	30069.00	47049.00	46470.00	<u>483.00</u>
99	1051.00	4573.00	2766.00	29810.00	34427.00	35581.00	<u>288.00</u>
100	1851.00	7702.00	2768.00	29459.00	57869.00	55905.00	<u>291.00</u>
101	1648.00	7032.00	2668.00	29843.00	55254.00	54301.00	<u>291.00</u>
102	2352.00	12848.00	2750.00	30054.00	69108.00	65370.00	<u>296.00</u>
103	1269.00	7000.00	2667.00	30366.00	40701.00	40101.00	<u>473.00</u>
104	1084.00	4636.00	2506.00	29459.00	59896.00	58697.00	<u>508.00</u>
105	1295.00	7226.00	2760.00	29980.00	60064.00	59136.00	<u>650.00</u>
106	1646.00	8760.00	3021.00	30160.00	67656.00	64006.00	<u>1330.00</u>
107	1368.00	8183.00	2851.00	30378.00	44260.00	43850.00	<u>314.00</u>
108	1391.00	7453.00	2789.00	29994.00	60075.00	58806.00	<u>289.00</u>
109	2025.00	8640.00	2788.00	30471.00	67197.00	63934.00	<u>414.00</u>
110	1297.00	6181.00	2818.00	29807.00	60093.00	58399.00	<u>298.00</u>
111	2032.00	10949.00	2864.00	29612.00	64803.00	62179.00	<u>300.00</u>
112	1869.00	9997.00	2680.00	29309.00	68648.00	64343.00	<u>301.00</u>
113	1677.00	9421.00	2521.00	29662.00	63859.00	62031.00	<u>304.00</u>
114	1557.00	8962.00	2863.00	29488.00	62759.00	61532.00	<u>300.00</u>
115	1525.00	8429.00	2852.00	29391.00	64149.00	63030.00	<u>302.00</u>
116	4557.00	18513.00	2657.00	29986.00	68010.00	64302.00	<u>288.00</u>
117	1389.00	7248.00	2646.00	29335.00	22573.00	23357.00	<u>279.00</u>
118	1838.00	8330.00	2684.00	29826.00	30391.00	29928.00	<u>284.00</u>
119	3196.00	11756.00	2830.00	29823.00	62798.00	60917.00	<u>284.00</u>
120	2841.00	9163.00	2763.00	29864.00	61997.00	59675.00	<u>285.00</u>
121	3008.00	13653.00	2948.00	29820.00	62245.00	59481.00	<u>287.00</u>
122	3279.00	15443.00	2869.00	30029.00	67732.00	64964.00	<u>286.00</u>
123	2718.00	12697.00	3010.00	29854.00	61841.00	60189.00	<u>282.00</u>
124	3042.00	11540.00	2875.00	29316.00	62205.00	59414.00	<u>290.00</u>
125	2688.00	12639.00	3059.00	29399.00	57128.00	55131.00	<u>291.00</u>

126	2006.00	11180.00	2682.00	29882.00	62905.00	61691.00	<u>286.00</u>
127	1364.00	8947.00	2539.00	29592.00	61162.00	59042.00	<u>300.00</u>
128	1173.00	6011.00	2731.00	29808.00	36615.00	38125.00	<u>297.00</u>
129	1658.00	6782.00	2722.00	29515.00	44462.00	44170.00	<u>298.00</u>
130	2299.00	13146.00	2948.00	29569.00	57440.00	56469.00	<u>314.00</u>
131	1962.00	8617.00	2762.00	29920.00	32306.00	32281.00	<u>299.00</u>
132	2214.00	12651.00	2782.00	29955.00	45456.00	43932.00	<u>309.00</u>
133	1535.00	6837.00	2806.00	31042.00	66681.00	66527.00	<u>424.00</u>
134	2579.00	14193.00	2934.00	29386.00	57313.00	56512.00	<u>312.00</u>
135	1357.00	7897.00	2815.00	29880.00	59345.00	57752.00	<u>369.00</u>
136	1315.00	6638.00	2812.00	30584.00	67374.00	66422.00	<u>366.00</u>
137	1528.00	7622.00	3079.00	30236.00	44425.00	45050.00	<u>418.00</u>
138	1526.00	8075.00	2938.00	29962.00	31849.00	31980.00	<u>381.00</u>
139	3565.00	14286.00	2764.00	29658.00	55838.00	55505.00	<u>304.00</u>
140	2175.00	10786.00	2685.00	30441.00	20047.00	20698.00	<u>302.00</u>
141	2292.00	10999.00	2783.00	29326.00	24093.00	23898.00	<u>307.00</u>
142	3342.00	14369.00	2857.00	29397.00	46679.00	46432.00	<u>306.00</u>
143	1670.00	6711.00	2844.00	29589.00	64985.00	63766.00	<u>309.00</u>
144	3331.00	14927.00	2891.00	30041.00	44966.00	44535.00	<u>304.00</u>
145	1575.00	9350.00	2953.00	30718.00	46051.00	44358.00	<u>361.00</u>
146	3634.00	16203.00	2855.00	30633.00	59137.00	58624.00	<u>285.00</u>
147	1882.00	10722.00	2623.00	29959.00	63742.00	61678.00	<u>299.00</u>
148	1510.00	8380.00	2653.00	29696.00	37360.00	37488.00	<u>296.00</u>
149	1871.00	10629.00	2708.00	30178.00	61131.00	61032.00	<u>292.00</u>
150	1705.00	7143.00	2882.00	30239.00	60582.00	59930.00	<u>389.00</u>
151	2391.00	13683.00	2683.00	29425.00	58355.00	56281.00	<u>430.00</u>
152	1275.00	7089.00	2786.00	29954.00	21219.00	21423.00	<u>307.00</u>
153	2447.00	11326.00	2873.00	29510.00	41403.00	41569.00	<u>288.00</u>
154	1596.00	7190.00	2803.00	29873.00	64822.00	63498.00	<u>299.00</u>
155	1730.00	7548.00	2805.00	29370.00	66073.00	63865.00	<u>294.00</u>
156	1365.00	6157.00	2964.00	29964.00	66748.00	64972.00	<u>300.00</u>
157	1533.00	7291.00	2868.00	29539.00	66943.00	64749.00	<u>300.00</u>
158	1525.00	8079.00	2810.00	29472.00	66343.00	63233.00	<u>304.00</u>
159	1064.00	4503.00	2966.00	29716.00	58467.00	57288.00	<u>302.00</u>
160	2321.00	9242.00	2496.00	29597.00	36943.00	35992.00	<u>287.00</u>
161	1693.00	7483.00	2936.00	29877.00	44284.00	43790.00	<u>298.00</u>
162	1393.00	8896.00	2916.00	29766.00	56379.00	56948.00	<u>299.00</u>
163	1392.00	7228.00	3066.00	29543.00	36566.00	37450.00	<u>297.00</u>
164	1616.00	8823.00	2847.00	29577.00	39887.00	38450.00	<u>294.00</u>
165	1510.00	7958.00	2935.00	29458.00	58468.00	57144.00	<u>298.00</u>
166	1295.00	6687.00	2851.00	30154.00	35880.00	36769.00	<u>298.00</u>
167	1521.00	8524.00	2966.00	29657.00	67331.00	64587.00	<u>323.00</u>
168	1275.00	6662.00	2872.00	29794.00	66524.00	62652.00	<u>302.00</u>

169	2355.00	11479.00	2828.00	29688.00	46218.00	45426.00	<u>299.00</u>
170	1191.00	5645.00	3095.00	30837.00	45943.00	46017.00	<u>492.00</u>
171	3038.00	14502.00	2692.00	29851.00	43894.00	42898.00	<u>295.00</u>
172	1267.00	7209.00	2901.00	29472.00	59619.00	58238.00	<u>301.00</u>
173	1061.00	4622.00	2829.00	30070.00	5312.00	5386.00	<u>287.00</u>
174	1647.00	9787.00	2613.00	29709.00	61146.00	59515.00	<u>287.00</u>
175	1679.00	8283.00	2687.00	29811.00	58257.00	56883.00	<u>285.00</u>
176	1368.00	8329.00	2742.00	29248.00	64422.00	63287.00	<u>271.00</u>
177	1292.00	7126.00	2760.00	29519.00	32698.00	32975.00	<u>276.00</u>
178	1551.00	7567.00	2789.00	29784.00	63212.00	61389.00	<u>306.00</u>
179	1657.00	7180.00	2851.00	29415.00	24895.00	25835.00	<u>284.00</u>
180	2219.00	11851.00	3075.00	29716.00	60136.00	60605.00	<u>282.00</u>
181	2395.00	9203.00	2447.00	30009.00	59244.00	58728.00	<u>290.00</u>
182	1526.00	7125.00	2823.00	29926.00	67779.00	64572.00	<u>292.00</u>
183	1263.00	6954.00	2636.00	29679.00	56293.00	55502.00	<u>296.00</u>
184	2849.00	12484.00	2950.00	29968.00	30890.00	30849.00	<u>302.00</u>
185	1066.00	4564.00	2778.00	29518.00	37452.00	37261.00	<u>290.00</u>
186	3543.00	16598.00	3029.00	29836.00	58958.00	57998.00	<u>296.00</u>
187	1321.00	5751.00	2590.00	29710.00	40160.00	40150.00	<u>304.00</u>
188	1864.00	8326.00	2560.00	30080.00	63233.00	62519.00	<u>306.00</u>
189	1281.00	6635.00	2652.00	29509.00	48701.00	47503.00	<u>305.00</u>
190	1392.00	8457.00	2705.00	29801.00	55091.00	53871.00	<u>314.00</u>
191	1769.00	9121.00	2769.00	29902.00	25679.00	25211.00	<u>286.00</u>
192	3018.00	13422.00	2777.00	30324.00	60977.00	61347.00	<u>300.00</u>
193	3129.00	13501.00	2944.00	30098.00	66850.00	64458.00	<u>293.00</u>
194	2027.00	9212.00	2905.00	30052.00	24911.00	25142.00	<u>293.00</u>
195	2494.00	9508.00	3002.00	29248.00	35548.00	35673.00	<u>298.00</u>
196	2742.00	13572.00	2746.00	29611.00	46656.00	43642.00	<u>282.00</u>
197	3131.00	14851.00	2666.00	30070.00	64963.00	62742.00	<u>299.00</u>
198	2627.00	13313.00	2780.00	29538.00	42036.00	41470.00	<u>298.00</u>
199	2594.00	12667.00	2771.00	29842.00	42946.00	42069.00	<u>300.00</u>
200	3119.00	13816.00	2711.00	29237.00	61425.00	58933.00	<u>300.00</u>
201	1859.00	10348.00	2861.00	30326.00	65760.00	63577.00	<u>305.00</u>
202	4127.00	16616.00	2766.00	29712.00	64822.00	61171.00	<u>292.00</u>
203	1177.00	6109.00	2700.00	30013.00	63452.00	63799.00	<u>276.00</u>
204	1766.00	8544.00	2702.00	30449.00	67858.00	65201.00	<u>295.00</u>
205	1708.00	8433.00	2876.00	30272.00	67175.00	64373.00	<u>288.00</u>
206	1645.00	7896.00	2702.00	29966.00	60489.00	58807.00	<u>274.00</u>
207	1983.00	8991.00	2576.00	29645.00	66344.00	63790.00	<u>315.00</u>
208	1786.00	8568.00	2800.00	30197.00	66549.00	62695.00	<u>444.00</u>
209	1575.00	9340.00	2966.00	30010.00	64800.00	61625.00	<u>320.00</u>
210	1801.00	7289.00	2741.00	30674.00	55708.00	54207.00	<u>512.00</u>
211	3520.00	17204.00	2840.00	29496.00	67347.00	65849.00	<u>293.00</u>



212	1168.00	5962.00	2689.00	29504.00	7657.00	7917.00	287.00
213	2806.00	13354.00	2602.00	30031.00	59500.00	59018.00	305.00
214	2357.00	12030.00	2974.00	30119.00	67452.00	66812.00	305.00
215	2973.00	12995.00	2726.00	30127.00	64540.00	62396.00	308.00
216	2510.00	11661.00	2886.00	30181.00	62049.00	60463.00	304.00
217	2191.00	10390.00	2751.00	30197.00	64051.00	61378.00	321.00
218	2229.00	12501.00	2931.00	30800.00	66281.00	64980.00	344.00
219	1599.00	7959.00	2796.00	30243.00	41952.00	41991.00	315.00
220	2109.00	9591.00	2771.00	30032.00	61158.00	61668.00	310.00
221	1383.00	7506.00	2735.00	29933.00	40037.00	39834.00	316.00
222	1258.00	6147.00	2794.00	30035.00	23297.00	23516.00	318.00
223	1379.00	8265.00	2763.00	30876.00	56221.00	56855.00	329.00
224	1942.00	8350.00	2517.00	30788.00	67151.00	62005.00	332.00
225	1568.00	8941.00	3013.00	31065.00	36202.00	36092.00	354.00
226	1793.00	9938.00	2652.00	30358.00	45314.00	44378.00	348.00
227	1403.00	8451.00	2927.00	31085.00	12632.00	12875.00	575.00
228	1365.00	6229.00	2772.00	29755.00	40406.00	40620.00	320.00
229	1590.00	6626.00	2832.00	30690.00	44872.00	45025.00	346.00
230	1807.00	9627.00	2622.00	30211.00	59610.00	58418.00	336.00
231	2779.00	13668.00	2749.00	29915.00	65441.00	63791.00	293.00
232	1381.00	7144.00	2794.00	30415.00	67611.00	66560.00	337.00
233	1218.00	5737.00	2820.00	30212.00	34346.00	34842.00	1250.00
234	1319.00	6834.00	3161.00	31199.00	41956.00	41147.00	624.00
235	1649.00	8123.00	2898.00	30940.00	61052.00	60620.00	569.00
236	1767.00	7575.00	2700.00	29414.00	64023.00	60296.00	303.00
237	1069.00	4501.00	2871.00	29020.00	45643.00	44371.00	320.00
238	1380.00	6739.00	3019.00	29745.00	65121.00	63788.00	324.00
239	1533.00	7968.00	2918.00	30361.00	60136.00	59850.00	359.00
240	2126.00	11138.00	2693.00	29738.00	65276.00	64589.00	304.00
241	1518.00	6851.00	2590.00	29508.00	67484.00	65238.00	319.00
242	2728.00	12402.00	2988.00	29351.00	63133.00	62775.00	301.00
243	1310.00	7024.00	2876.00	29874.00	55548.00	54839.00	346.00
244	1300.00	6306.00	2822.00	29278.00	59046.00	58749.00	360.00

Best Results:

hr\_sre\_dacc:  $243/244 = 99.59\%$ ;

ce\_src:  $1/244 = 0.41\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 518.22%

dace\_src: 2881.07%

dace\_trc: 775.04%

ce\_trc: 9239.83%

ce\_swc: 16421.48%

ce\_cc: 16041.72%

Table 45: Experiment Data

skin-physiology-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	<u>638.00</u>	1007.00	1346.00	5363.00	2918.00	3047.00	827.00
2	-1	-1	-1	-1	-1	-1	<u>2019.00</u>
3	648.00	1277.00	1163.00	4494.00	2266.00	2342.00	<u>276.00</u>
4	649.00	1251.00	1393.00	4422.00	2505.00	2603.00	<u>266.00</u>
5	-1	-1	1499.00	-1	-1	-1	<u>1328.00</u>
6	833.00	1499.00	1336.00	4521.00	4714.00	4908.00	<u>262.00</u>
7	749.00	1382.00	1326.00	4401.00	4975.00	5152.00	<u>270.00</u>
8	795.00	1391.00	1379.00	4635.00	4968.00	5170.00	<u>524.00</u>
9	-1	-1	1590.00	5237.00	-1	-1	<u>1404.00</u>
10	-1	-1	-1	-1	-1	-1	<u>387.00</u>
11	915.00	1683.00	1467.00	-1	1117.00	<u>645.00</u>	1023.00
12	1018.00	1621.00	1411.00	-1	-1	-1	<u>668.00</u>
13	986.00	1681.00	1257.00	4540.00	4246.00	4388.00	<u>295.00</u>
14	-1	-1	1158.00	-1	-1	-1	<u>603.00</u>
15	-1	-1	1158.00	-1	4376.00	4471.00	<u>612.00</u>
16	1123.00	2542.00	1710.00	4456.00	6222.00	6346.00	<u>280.00</u>
17	-1	839.00	-1	-1	-1	-1	<u>443.00</u>
18	535.00	829.00	1129.00	4574.00	2210.00	2279.00	<u>285.00</u>
19	-1	-1	1951.00	-1	-1	-1	<u>883.00</u>
20	2249.00	2858.00	1667.00	5173.00	6959.00	7229.00	<u>411.00</u>
21	1710.00	2480.00	1856.00	6039.00	7501.00	7578.00	<u>416.00</u>
22	-1	-1	-1	-1	-1	-1	<u>1365.00</u>
23	-1	-1	1922.00	-1	5985.00	5854.00	<u>1119.00</u>
24	530.00	833.00	1197.00	4608.00	4079.00	4219.00	<u>290.00</u>
25	-1	888.00	1349.00	-1	-1	-1	<u>445.00</u>
26	-1	-1	-1	-1	-1	-1	<u>1045.00</u>
27	921.00	1802.00	1071.00	4499.00	7409.00	7334.00	<u>296.00</u>
28	747.00	1322.00	1113.00	4617.00	3997.00	4139.00	<u>282.00</u>
29	-1	-1	-1	-1	-1	-1	<u>973.00</u>
30	918.00	1804.00	1140.00	4340.00	6392.00	6435.00	<u>282.00</u>
31	831.00	1474.00	1389.00	4420.00	6283.00	6349.00	<u>265.00</u>

32	-1	-1	-1	-1	-1	-1	<u>1034.00</u>
33	<u>652.00</u>	1040.00	1534.00	-1	1764.00	2354.00	<u>1657.00</u>
34	646.00	993.00	1311.00	5647.00	2137.00	2394.00	<u>636.00</u>
35	832.00	1441.00	1351.00	4630.00	3527.00	3706.00	<u>264.00</u>
36	757.00	1495.00	1316.00	4723.00	4350.00	4563.00	<u>268.00</u>
37	997.00	1727.00	1329.00	4452.00	6904.00	6782.00	<u>277.00</u>
38	-1	-1	-1	-1	-1	-1	<u>1344.00</u>
39	982.00	1718.00	1361.00	4499.00	6995.00	6963.00	<u>286.00</u>
40	1777.00	3178.00	2003.00	5787.00	7698.00	7495.00	<u>435.00</u>

Best Results:

ce\_src: 2/40 = 5.00%;

hr\_sre\_dacc: 37/40 = 92.50%;

ce\_cc: 1/40 = 2.50%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 141.86%

dace\_src: 267.46%

dace\_trc: 218.25%

ce\_trc: 806.64%

ce\_swc: 871.80%

ce\_cc: 888.08%

Table 46: Experiment Data

software-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	10833.00	18020.00	1944.00	20425.00	40273.00	38305.00	<u>285.00</u>
2	10887.00	17952.00	2085.00	20845.00	40303.00	37935.00	<u>308.00</u>
3	1190.00	5684.00	2145.00	20296.00	32759.00	32811.00	<u>285.00</u>
4	7833.00	14925.00	2205.00	20416.00	29701.00	29724.00	<u>287.00</u>
5	6047.00	15553.00	2300.00	20425.00	23664.00	23128.00	<u>286.00</u>
6	1131.00	7243.00	2157.00	20447.00	36965.00	37000.00	<u>286.00</u>
7	9084.00	15610.00	2076.00	20717.00	33809.00	32751.00	<u>282.00</u>
8	1261.00	8114.00	1875.00	19672.00	34274.00	32716.00	<u>287.00</u>
9	10685.00	17952.00	1953.00	20627.00	38390.00	36293.00	<u>290.00</u>

10	8402.00	16284.00	2182.00	20341.00	32326.00	31394.00	<u>267.00</u>
11	10899.00	20472.00	2027.00	20509.00	39696.00	37869.00	<u>285.00</u>
12	9907.00	16381.00	2149.00	20181.00	36959.00	35591.00	<u>300.00</u>
13	10503.00	18760.00	2045.00	20455.00	38504.00	36814.00	<u>284.00</u>
14	11943.00	17271.00	2145.00	20185.00	40583.00	38721.00	<u>283.00</u>
15	11802.00	15093.00	2111.00	20310.00	39800.00	38358.00	<u>282.00</u>
16	10810.00	16543.00	1917.00	19994.00	39692.00	37685.00	<u>283.00</u>
17	9065.00	16157.00	2205.00	20177.00	35598.00	34406.00	<u>285.00</u>
18	6914.00	15481.00	2078.00	20289.00	27137.00	27379.00	<u>283.00</u>
19	1030.00	4850.00	1971.00	20129.00	7696.00	7790.00	<u>305.00</u>
20	10657.00	18025.00	2139.00	20175.00	38743.00	37358.00	<u>282.00</u>
21	5978.00	15452.00	2356.00	20172.00	23814.00	23450.00	<u>285.00</u>
22	10157.00	15471.00	2043.00	20310.00	35867.00	36221.00	<u>285.00</u>
23	11651.00	17491.00	2227.00	20500.00	40392.00	37993.00	<u>278.00</u>
24	11641.00	16982.00	2234.00	20920.00	40736.00	37683.00	<u>281.00</u>
25	8403.00	16621.00	2049.00	20465.00	31193.00	30395.00	<u>283.00</u>
26	5760.00	15804.00	2325.00	20450.00	22411.00	21939.00	<u>283.00</u>
27	7386.00	14780.00	2227.00	20627.00	29078.00	29048.00	<u>281.00</u>
28	8071.00	15435.00	2307.00	20600.00	30645.00	30110.00	<u>291.00</u>
29	10942.00	18764.00	2122.00	20120.00	38842.00	38340.00	<u>281.00</u>
30	11969.00	17949.00	2009.00	20308.00	40684.00	38859.00	<u>282.00</u>
31	10580.00	19310.00	2295.00	20749.00	38701.00	36624.00	<u>285.00</u>
32	9696.00	19142.00	1985.00	20220.00	35562.00	34245.00	<u>281.00</u>
33	10932.00	13863.00	2013.00	20643.00	39632.00	37623.00	<u>285.00</u>
34	3789.00	13444.00	2082.00	21064.00	14861.00	14600.00	<u>281.00</u>
35	9140.00	18866.00	2320.00	20552.00	34860.00	34208.00	<u>284.00</u>
36	9253.00	16150.00	1998.00	20778.00	34153.00	33301.00	<u>285.00</u>
37	4543.00	10675.00	2409.00	20483.00	18279.00	18294.00	<u>287.00</u>
38	10299.00	16785.00	2126.00	20110.00	37241.00	35141.00	<u>282.00</u>
39	10737.00	17000.00	2352.00	20050.00	38748.00	38222.00	<u>280.00</u>
40	6567.00	16043.00	2177.00	20293.00	24916.00	24047.00	<u>280.00</u>
41	10213.00	16601.00	2162.00	20470.00	36798.00	36310.00	<u>283.00</u>
42	8793.00	16798.00	2220.00	20449.00	33277.00	32119.00	<u>287.00</u>
43	1000.00	4078.00	2190.00	20079.00	28640.00	28038.00	<u>300.00</u>
44	881.00	3694.00	2073.00	20305.00	18302.00	18014.00	<u>287.00</u>
45	955.00	4434.00	1912.00	19632.00	20815.00	20786.00	<u>283.00</u>
46	9452.00	18164.00	2071.00	20659.00	35725.00	35474.00	<u>283.00</u>
47	10146.00	16845.00	2104.00	20972.00	36878.00	36140.00	<u>281.00</u>
48	11160.00	18214.00	2220.00	20718.00	40089.00	38103.00	<u>283.00</u>
49	4093.00	12254.00	2132.00	20749.00	16865.00	16741.00	<u>282.00</u>
50	8132.00	16572.00	2014.00	20449.00	30969.00	30618.00	<u>285.00</u>
51	10985.00	17090.00	2284.00	20801.00	39958.00	38127.00	<u>283.00</u>
52	10861.00	16921.00	2372.00	20696.00	38498.00	38404.00	<u>282.00</u>

53	6310.00	10813.00	2162.00	21007.00	24139.00	23502.00	<u>280.00</u>
54	10905.00	17400.00	2255.00	20158.00	39112.00	37268.00	<u>279.00</u>
55	5717.00	14401.00	2130.00	20302.00	22002.00	22198.00	<u>282.00</u>
56	7883.00	13275.00	2194.00	20544.00	29971.00	29822.00	<u>288.00</u>
57	9287.00	17280.00	2252.00	20846.00	33519.00	34058.00	<u>282.00</u>
58	10723.00	17190.00	2212.00	20400.00	39536.00	37185.00	<u>281.00</u>
59	2574.00	11592.00	2078.00	20454.00	9161.00	9130.00	<u>282.00</u>
60	6679.00	15190.00	2115.00	20236.00	26402.00	25801.00	<u>287.00</u>
61	1268.00	6662.00	1975.00	20043.00	34105.00	32792.00	<u>281.00</u>
62	5880.00	14123.00	2014.00	19966.00	22916.00	22640.00	<u>285.00</u>
63	11189.00	17357.00	2024.00	20328.00	39990.00	37709.00	<u>285.00</u>
64	12215.00	18469.00	2202.00	20805.00	40425.00	38217.00	<u>283.00</u>
65	8683.00	17415.00	2219.00	20256.00	32790.00	31993.00	<u>285.00</u>
66	11915.00	18570.00	1984.00	20659.00	41277.00	38537.00	<u>283.00</u>
67	9040.00	17583.00	2316.00	20676.00	33534.00	32676.00	<u>284.00</u>
68	7989.00	15154.00	2077.00	20525.00	31094.00	29818.00	<u>284.00</u>
69	11311.00	17645.00	1979.00	19855.00	39495.00	38070.00	<u>282.00</u>
70	11831.00	18448.00	2078.00	20121.00	40603.00	39137.00	<u>283.00</u>
71	9714.00	16145.00	2235.00	20401.00	36848.00	36114.00	<u>288.00</u>
72	7040.00	15744.00	2071.00	20711.00	27689.00	27313.00	<u>280.00</u>
73	10504.00	18199.00	2018.00	20312.00	38288.00	37467.00	<u>280.00</u>
74	6320.00	15612.00	2315.00	20429.00	24021.00	23764.00	<u>286.00</u>
75	10672.00	18296.00	2134.00	20101.00	38815.00	36707.00	<u>286.00</u>
76	10545.00	18305.00	2028.00	20271.00	38917.00	37714.00	<u>283.00</u>
77	10841.00	16931.00	2219.00	20650.00	38799.00	37463.00	<u>284.00</u>
78	1183.00	6020.00	1989.00	20046.00	39139.00	37440.00	<u>287.00</u>
79	8955.00	17469.00	1995.00	20451.00	33171.00	32578.00	<u>285.00</u>
80	5092.00	14531.00	2145.00	20565.00	19704.00	19806.00	<u>276.00</u>
81	11551.00	18667.00	2116.00	20668.00	39315.00	37043.00	<u>283.00</u>
82	10765.00	17203.00	1946.00	20380.00	39856.00	37862.00	<u>285.00</u>
83	4088.00	13866.00	1964.00	20617.00	16492.00	16624.00	<u>283.00</u>
84	8190.00	16561.00	2177.00	20578.00	31233.00	30881.00	<u>283.00</u>
85	12272.00	17020.00	2178.00	20683.00	41057.00	39043.00	<u>282.00</u>
86	10159.00	18642.00	1859.00	20154.00	37565.00	36167.00	<u>279.00</u>
87	1349.00	6765.00	2003.00	20114.00	40920.00	38634.00	<u>283.00</u>
88	5970.00	13349.00	1883.00	20027.00	22676.00	22342.00	<u>284.00</u>
89	7051.00	16735.00	2034.00	20022.00	28474.00	27195.00	<u>278.00</u>
90	5252.00	12479.00	1922.00	20325.00	20575.00	20385.00	<u>286.00</u>
91	8543.00	16737.00	2256.00	20591.00	32038.00	31977.00	<u>280.00</u>
92	10834.00	17835.00	2053.00	20380.00	39398.00	37987.00	<u>280.00</u>
93	4523.00	13484.00	2002.00	20860.00	18426.00	18921.00	<u>280.00</u>
94	11015.00	18794.00	2166.00	20192.00	37567.00	37576.00	<u>285.00</u>
95	9299.00	15605.00	2255.00	20473.00	34356.00	33660.00	<u>282.00</u>

96	12080.00	17282.00	1981.00	20991.00	41539.00	38745.00	<u>284.00</u>
97	11091.00	15143.00	2496.00	20672.00	39073.00	37997.00	<u>279.00</u>
98	12211.00	18647.00	2043.00	20603.00	41401.00	38787.00	<u>282.00</u>
99	9292.00	17312.00	2171.00	20505.00	35032.00	33710.00	<u>285.00</u>
100	9431.00	18145.00	2015.00	20536.00	35579.00	34024.00	<u>288.00</u>
101	10431.00	18118.00	2208.00	19996.00	37014.00	36509.00	<u>284.00</u>
102	10903.00	14963.00	1949.00	20626.00	40098.00	38038.00	<u>278.00</u>
103	11165.00	16255.00	2218.00	20455.00	39650.00	37883.00	<u>279.00</u>
104	11787.00	17220.00	2220.00	20220.00	40822.00	38579.00	<u>280.00</u>
105	10045.00	18421.00	2251.00	20232.00	36745.00	35630.00	<u>279.00</u>
106	11160.00	17481.00	2121.00	20246.00	39160.00	38454.00	<u>284.00</u>
107	10982.00	18348.00	1990.00	20743.00	39192.00	38449.00	<u>281.00</u>
108	10756.00	17258.00	2233.00	20514.00	39314.00	36650.00	<u>284.00</u>
109	3858.00	13426.00	2150.00	20090.00	16498.00	16350.00	<u>278.00</u>
110	4242.00	14518.00	2074.00	20617.00	17092.00	17101.00	<u>281.00</u>
111	10775.00	16890.00	2162.00	20097.00	38745.00	38732.00	<u>280.00</u>
112	8948.00	14012.00	2070.00	20343.00	33864.00	32309.00	<u>285.00</u>
113	7213.00	14288.00	2002.00	20197.00	28902.00	28162.00	<u>282.00</u>
114	9829.00	16018.00	2132.00	20288.00	38091.00	36118.00	<u>284.00</u>
115	11047.00	16907.00	2077.00	20889.00	39338.00	38147.00	<u>280.00</u>
116	5766.00	13988.00	2166.00	20702.00	22897.00	22319.00	<u>282.00</u>
117	8107.00	15137.00	1710.00	20807.00	30051.00	31035.00	<u>277.00</u>
118	10844.00	17465.00	2080.00	20151.00	38852.00	38632.00	<u>285.00</u>
119	4414.00	14709.00	2202.00	20394.00	18200.00	17944.00	<u>289.00</u>
120	8745.00	17163.00	1834.00	20267.00	32553.00	32113.00	<u>282.00</u>
121	6787.00	14912.00	2084.00	20724.00	27180.00	26685.00	<u>284.00</u>
122	9322.00	15419.00	2329.00	20307.00	33982.00	33813.00	<u>285.00</u>
123	7000.00	14471.00	2029.00	20488.00	27651.00	27520.00	<u>301.00</u>
124	9794.00	17716.00	2116.00	21117.00	37048.00	35719.00	<u>285.00</u>
125	10289.00	16516.00	2045.00	20679.00	38458.00	36221.00	<u>284.00</u>
126	8052.00	17048.00	2093.00	20768.00	30651.00	30204.00	<u>279.00</u>
127	10514.00	17013.00	2233.00	20513.00	39433.00	36703.00	<u>282.00</u>
128	7542.00	14494.00	2137.00	21040.00	29639.00	29166.00	<u>284.00</u>
129	10686.00	18710.00	1887.00	19955.00	39120.00	36985.00	<u>281.00</u>
130	9991.00	17876.00	2152.00	19913.00	37275.00	36084.00	<u>282.00</u>
131	7320.00	13856.00	2040.00	20371.00	29775.00	28070.00	<u>282.00</u>
132	7934.00	15179.00	2053.00	20392.00	30698.00	30139.00	<u>255.00</u>
133	8768.00	15331.00	2366.00	20392.00	32900.00	31784.00	<u>285.00</u>
134	5501.00	13916.00	2147.00	20120.00	21864.00	21292.00	<u>282.00</u>
135	11960.00	17456.00	2068.00	20350.00	40653.00	38718.00	<u>284.00</u>
136	5019.00	14447.00	2021.00	20589.00	19584.00	19333.00	<u>278.00</u>
137	11633.00	16355.00	2050.00	20454.00	40067.00	37266.00	<u>288.00</u>
138	10791.00	16371.00	1899.00	20547.00	39614.00	37445.00	<u>282.00</u>

139	7737.00	15531.00	2145.00	20662.00	30105.00	29009.00	<u>279.00</u>
140	1097.00	4898.00	2134.00	20613.00	19252.00	19446.00	<u>288.00</u>
141	10888.00	18495.00	2137.00	20739.00	40207.00	37958.00	<u>285.00</u>
142	1058.00	6310.00	1945.00	19898.00	29944.00	29159.00	<u>285.00</u>
143	10206.00	17400.00	2065.00	19907.00	38212.00	36610.00	<u>285.00</u>
144	1169.00	6705.00	2170.00	19835.00	31709.00	31363.00	<u>286.00</u>
145	949.00	4252.00	1997.00	19848.00	16235.00	16190.00	<u>283.00</u>
146	8873.00	15914.00	1950.00	20676.00	33827.00	32591.00	<u>285.00</u>
147	9026.00	16895.00	1987.00	20453.00	35037.00	33328.00	<u>282.00</u>
148	9168.00	16390.00	2048.00	20188.00	35442.00	33268.00	<u>282.00</u>
149	6380.00	14588.00	2241.00	20143.00	24191.00	24024.00	<u>280.00</u>
150	3453.00	12757.00	2299.00	20301.00	13354.00	13128.00	<u>279.00</u>
151	10300.00	16534.00	2207.00	20528.00	38274.00	36647.00	<u>281.00</u>
152	3808.00	12974.00	2133.00	20938.00	15556.00	15670.00	<u>287.00</u>
153	10780.00	17366.00	2066.00	20209.00	39887.00	36557.00	<u>284.00</u>
154	1471.00	6199.00	2051.00	20357.00	4323.00	4538.00	<u>288.00</u>
155	10793.00	18563.00	2225.00	20717.00	40111.00	38636.00	<u>279.00</u>
156	11668.00	17285.00	2043.00	20854.00	40835.00	38261.00	<u>284.00</u>
157	11101.00	19108.00	2056.00	20678.00	39668.00	39694.00	<u>281.00</u>
158	9867.00	15300.00	2116.00	20693.00	37204.00	35087.00	<u>286.00</u>
159	10778.00	19242.00	1917.00	20203.00	39389.00	37660.00	<u>283.00</u>
160	10060.00	18381.00	2052.00	19930.00	37125.00	35943.00	<u>279.00</u>
161	7566.00	14000.00	2159.00	20321.00	29616.00	28738.00	<u>285.00</u>
162	9474.00	15626.00	2258.00	20156.00	34764.00	34524.00	<u>284.00</u>
163	9520.00	15832.00	2139.00	20565.00	35949.00	34901.00	<u>278.00</u>
164	11623.00	16823.00	2040.00	20498.00	40433.00	36705.00	<u>287.00</u>
165	9754.00	18053.00	2176.00	20218.00	36485.00	35239.00	<u>286.00</u>
166	7456.00	14978.00	2329.00	20794.00	29484.00	28370.00	<u>278.00</u>
167	10724.00	18113.00	1943.00	20537.00	38951.00	37663.00	<u>285.00</u>
168	8020.00	14629.00	2087.00	20616.00	31177.00	30022.00	<u>281.00</u>
169	9564.00	15309.00	2173.00	20184.00	35707.00	36205.00	<u>283.00</u>
170	11474.00	17482.00	2141.00	20257.00	40178.00	37193.00	<u>277.00</u>
171	8883.00	15843.00	2181.00	20380.00	33739.00	31897.00	<u>288.00</u>
172	4434.00	13991.00	2278.00	20752.00	17995.00	17596.00	<u>285.00</u>
173	12098.00	18336.00	1908.00	20319.00	42469.00	38949.00	<u>283.00</u>
174	3759.00	13407.00	1921.00	20430.00	14945.00	15023.00	<u>283.00</u>
175	9935.00	17923.00	1946.00	20273.00	37678.00	36079.00	<u>279.00</u>
176	9683.00	17374.00	1925.00	20091.00	36166.00	35732.00	<u>285.00</u>
177	2795.00	10344.00	2128.00	20603.00	10293.00	10539.00	<u>283.00</u>
178	10948.00	17821.00	1774.00	20568.00	40004.00	36835.00	<u>284.00</u>
179	9506.00	17076.00	2242.00	20203.00	34975.00	33294.00	<u>279.00</u>
180	9838.00	16800.00	1899.00	20643.00	37029.00	34706.00	<u>282.00</u>
181	9801.00	16048.00	2134.00	20352.00	37315.00	35665.00	<u>283.00</u>

182	8169.00	15125.00	2027.00	20543.00	31449.00	30702.00	<u>284.00</u>
183	8896.00	15131.00	1946.00	20139.00	33562.00	31965.00	<u>279.00</u>
184	4383.00	15519.00	2201.00	20832.00	17728.00	17578.00	<u>283.00</u>
185	3224.00	13296.00	2268.00	21010.00	12535.00	12555.00	<u>286.00</u>
186	9666.00	16921.00	2075.00	20437.00	35219.00	35026.00	<u>286.00</u>
187	10854.00	18466.00	2147.00	20446.00	38756.00	37899.00	<u>286.00</u>
188	5650.00	12494.00	2054.00	20336.00	21899.00	21704.00	<u>308.00</u>
189	12375.00	19155.00	2239.00	20914.00	40937.00	39477.00	<u>285.00</u>
190	7293.00	15114.00	2092.00	20529.00	29403.00	28294.00	<u>283.00</u>
191	10815.00	17880.00	2224.00	19972.00	39974.00	38275.00	<u>284.00</u>
192	9193.00	18252.00	1903.00	20099.00	34209.00	34490.00	<u>283.00</u>
193	10210.00	15396.00	1893.00	20534.00	36801.00	35632.00	<u>289.00</u>
194	7082.00	16607.00	2050.00	20406.00	27554.00	27410.00	<u>287.00</u>
195	6475.00	14315.00	1960.00	20454.00	24387.00	24493.00	<u>281.00</u>
196	10277.00	15529.00	2187.00	20206.00	38031.00	36233.00	<u>279.00</u>
197	9188.00	16610.00	2089.00	20508.00	33628.00	33497.00	<u>283.00</u>
198	11838.00	15693.00	2051.00	20593.00	39908.00	38004.00	<u>285.00</u>
199	9999.00	16769.00	2184.00	20682.00	36703.00	36239.00	<u>286.00</u>
200	9854.00	17880.00	2000.00	20747.00	36079.00	35598.00	<u>288.00</u>
201	7837.00	15546.00	2146.00	20325.00	31063.00	30838.00	<u>280.00</u>
202	11764.00	19696.00	2206.00	20850.00	39944.00	36940.00	<u>284.00</u>
203	9701.00	16658.00	2192.00	20564.00	36322.00	35122.00	<u>285.00</u>
204	6636.00	15104.00	1994.00	20592.00	26082.00	25862.00	<u>281.00</u>
205	9087.00	12028.00	1941.00	20625.00	33837.00	32621.00	<u>279.00</u>
206	7161.00	18341.00	2301.00	20480.00	29360.00	28301.00	<u>282.00</u>
207	7868.00	16610.00	2092.00	19810.00	30317.00	29675.00	<u>283.00</u>
208	10727.00	16655.00	2204.00	20683.00	39683.00	36825.00	<u>282.00</u>
209	10449.00	14701.00	2060.00	20195.00	37581.00	36399.00	<u>282.00</u>
210	6387.00	12709.00	2030.00	20241.00	24742.00	24763.00	<u>282.00</u>
211	12296.00	16128.00	2102.00	20570.00	39829.00	39355.00	<u>283.00</u>
212	9055.00	18023.00	2206.00	20101.00	33194.00	32923.00	<u>281.00</u>
213	2447.00	10776.00	2115.00	20673.00	8056.00	8177.00	<u>287.00</u>
214	11370.00	17627.00	2103.00	20152.00	40110.00	37881.00	<u>284.00</u>
215	4151.00	14370.00	2111.00	20508.00	17089.00	16893.00	<u>281.00</u>
216	7850.00	16183.00	2149.00	20517.00	29717.00	29465.00	<u>282.00</u>
217	8270.00	15998.00	2141.00	20533.00	31515.00	31312.00	<u>282.00</u>
218	6268.00	14816.00	2231.00	20490.00	23918.00	23797.00	<u>282.00</u>
219	10940.00	19026.00	2270.00	20208.00	38903.00	37714.00	<u>285.00</u>
220	8009.00	16383.00	2411.00	20340.00	30357.00	28900.00	<u>283.00</u>
221	10729.00	14312.00	1939.00	20509.00	38851.00	37985.00	<u>282.00</u>
222	3578.00	12168.00	1977.00	20488.00	13843.00	13975.00	<u>282.00</u>
223	9226.00	17813.00	2319.00	20545.00	33638.00	32637.00	<u>311.00</u>
224	11479.00	17565.00	2210.00	20752.00	39366.00	38061.00	<u>284.00</u>



225	9475.00	17043.00	2050.00	20967.00	35537.00	34355.00	<u>282.00</u>
226	3981.00	12845.00	1994.00	21045.00	16440.00	16546.00	<u>284.00</u>
227	7921.00	15336.00	2093.00	20343.00	30017.00	29051.00	<u>285.00</u>
228	9668.00	15915.00	2225.00	20202.00	35982.00	33389.00	<u>284.00</u>
229	12069.00	17176.00	2108.00	20638.00	40976.00	38587.00	<u>285.00</u>
230	11499.00	16606.00	2174.00	20405.00	39558.00	38345.00	<u>284.00</u>
231	10310.00	16318.00	2285.00	20897.00	39200.00	37126.00	<u>278.00</u>
232	9882.00	15844.00	1699.00	19912.00	36501.00	34370.00	<u>279.00</u>
233	7663.00	14707.00	1925.00	20797.00	30005.00	28963.00	<u>283.00</u>
234	10935.00	18415.00	1943.00	20626.00	39795.00	37784.00	<u>278.00</u>
235	6673.00	12298.00	1987.00	20314.00	25638.00	25085.00	<u>283.00</u>
236	10015.00	17991.00	2189.00	20206.00	35913.00	35822.00	<u>280.00</u>
237	7466.00	16660.00	1925.00	20343.00	28634.00	28902.00	<u>283.00</u>
238	10029.00	16114.00	1878.00	20302.00	37389.00	35856.00	<u>284.00</u>
239	8202.00	16479.00	2024.00	20506.00	31248.00	31653.00	<u>288.00</u>
240	11484.00	17406.00	2102.00	20628.00	39905.00	38077.00	<u>281.00</u>
241	9384.00	17924.00	2096.00	20655.00	35066.00	33200.00	<u>281.00</u>
242	8880.00	14913.00	2131.00	20140.00	33079.00	32787.00	<u>285.00</u>
243	10574.00	17910.00	2191.00	20558.00	38066.00	37347.00	<u>283.00</u>
244	7259.00	16189.00	1926.00	20205.00	28358.00	28046.00	<u>284.00</u>
245	9454.00	17323.00	2061.00	20429.00	35826.00	34229.00	<u>278.00</u>
246	9884.00	17699.00	2029.00	20444.00	37547.00	36245.00	<u>282.00</u>
247	5406.00	14961.00	2309.00	20769.00	20982.00	21139.00	<u>284.00</u>
248	7594.00	17690.00	1739.00	19784.00	29622.00	28548.00	<u>285.00</u>
249	9779.00	17493.00	2043.00	19955.00	36267.00	34895.00	<u>285.00</u>
250	10076.00	17572.00	1970.00	20963.00	37297.00	35952.00	<u>282.00</u>
251	10799.00	18954.00	1946.00	19937.00	39291.00	36018.00	<u>282.00</u>
252	8940.00	18331.00	1973.00	20572.00	33819.00	32821.00	<u>282.00</u>
253	6588.00	13574.00	1909.00	20131.00	26088.00	26180.00	<u>280.00</u>
254	5990.00	15209.00	2276.00	20143.00	23579.00	23127.00	<u>284.00</u>
255	7625.00	15789.00	2191.00	20496.00	29383.00	28795.00	<u>285.00</u>
256	8025.00	17739.00	2307.00	20620.00	30140.00	30934.00	<u>289.00</u>
257	11547.00	18540.00	2123.00	20399.00	39903.00	38338.00	<u>279.00</u>
258	10871.00	18196.00	2127.00	20198.00	38924.00	36977.00	<u>283.00</u>
259	10601.00	17747.00	2040.00	20491.00	38550.00	36503.00	<u>287.00</u>
260	12439.00	17399.00	2221.00	20566.00	40577.00	38873.00	<u>285.00</u>
261	7323.00	14998.00	2209.00	20956.00	28200.00	28587.00	<u>283.00</u>
262	3480.00	10760.00	2196.00	20859.00	13940.00	14029.00	<u>279.00</u>
263	8419.00	15898.00	2104.00	20155.00	31492.00	31237.00	<u>287.00</u>
264	10809.00	18041.00	1872.00	20362.00	39781.00	37499.00	<u>279.00</u>
265	4314.00	14331.00	2171.00	19747.00	17787.00	17354.00	<u>280.00</u>
266	7122.00	13727.00	2039.00	20166.00	28060.00	28145.00	<u>286.00</u>
267	9235.00	16576.00	2217.00	20120.00	34231.00	34024.00	<u>280.00</u>

268	10569.00	18192.00	2147.00	20104.00	38726.00	37344.00	<u>279.00</u>
269	10829.00	17096.00	2028.00	20685.00	40254.00	37701.00	<u>279.00</u>
270	11152.00	17296.00	2175.00	20605.00	39848.00	37658.00	<u>285.00</u>
271	7158.00	17609.00	2254.00	20474.00	28232.00	28164.00	<u>281.00</u>
272	8991.00	16531.00	2024.00	20393.00	33912.00	32406.00	<u>285.00</u>
273	11000.00	18156.00	2049.00	20238.00	41460.00	38167.00	<u>284.00</u>
274	8247.00	17306.00	2197.00	20147.00	31240.00	30976.00	<u>284.00</u>
275	3192.00	9347.00	2273.00	20858.00	12239.00	12298.00	<u>286.00</u>
276	9366.00	18595.00	2117.00	20009.00	33959.00	33276.00	<u>283.00</u>
277	3817.00	10326.00	2082.00	20363.00	15517.00	15815.00	<u>284.00</u>
278	9600.00	16943.00	2168.00	20431.00	36160.00	34385.00	<u>276.00</u>
279	11047.00	17818.00	2003.00	20462.00	40029.00	38158.00	<u>281.00</u>
280	3747.00	9187.00	2192.00	20433.00	14965.00	14952.00	<u>280.00</u>
281	2948.00	13192.00	2177.00	20758.00	10872.00	10618.00	<u>281.00</u>
282	9273.00	19002.00	2028.00	20512.00	33782.00	32578.00	<u>278.00</u>
283	9724.00	18019.00	2122.00	20328.00	36353.00	35177.00	<u>283.00</u>
284	4438.00	12546.00	2064.00	20148.00	17939.00	17934.00	<u>282.00</u>
285	8470.00	18976.00	2259.00	20581.00	32586.00	32118.00	<u>287.00</u>
286	7150.00	14121.00	2117.00	21057.00	28092.00	27567.00	<u>282.00</u>
287	9129.00	16386.00	1930.00	20293.00	33973.00	33339.00	<u>284.00</u>
288	10852.00	16089.00	2088.00	20736.00	38892.00	37975.00	<u>281.00</u>
289	10339.00	16681.00	2228.00	20576.00	37864.00	37191.00	<u>280.00</u>
290	10805.00	17446.00	2116.00	21135.00	39994.00	38156.00	<u>285.00</u>
291	7645.00	16266.00	2282.00	20342.00	29444.00	29572.00	<u>284.00</u>
292	12146.00	18461.00	2103.00	20109.00	41215.00	38129.00	<u>280.00</u>
293	10260.00	16749.00	2187.00	20281.00	38034.00	36999.00	<u>302.00</u>
294	11036.00	17901.00	2010.00	20278.00	39036.00	38219.00	<u>287.00</u>
295	5690.00	13315.00	2003.00	20317.00	22293.00	21543.00	<u>283.00</u>
296	9799.00	18737.00	2086.00	20233.00	36580.00	35725.00	<u>281.00</u>
297	9000.00	16404.00	2208.00	20687.00	32565.00	31505.00	<u>284.00</u>
298	10503.00	19171.00	2078.00	20979.00	37696.00	35698.00	<u>281.00</u>
299	6045.00	14246.00	2076.00	20187.00	23307.00	23190.00	<u>298.00</u>
300	12170.00	17058.00	2098.00	20921.00	42119.00	39097.00	<u>281.00</u>
301	9235.00	16189.00	2150.00	20386.00	34623.00	34295.00	<u>283.00</u>
302	5101.00	13395.00	2399.00	20724.00	21139.00	20634.00	<u>283.00</u>
303	10240.00	18818.00	2218.00	20069.00	38281.00	36372.00	<u>285.00</u>
304	7426.00	16155.00	2098.00	20155.00	28855.00	28463.00	<u>281.00</u>
305	10998.00	17959.00	2185.00	20503.00	39371.00	38605.00	<u>284.00</u>
306	8087.00	17577.00	2051.00	20164.00	31024.00	30034.00	<u>288.00</u>
307	6469.00	15111.00	2131.00	19898.00	25448.00	25651.00	<u>285.00</u>
308	9336.00	17765.00	2245.00	20360.00	34402.00	33260.00	<u>281.00</u>
309	10540.00	18087.00	2097.00	20771.00	38526.00	36798.00	<u>281.00</u>
310	9819.00	16953.00	1947.00	20437.00	35824.00	35659.00	<u>280.00</u>

311	9870.00	15526.00	2129.00	20185.00	37192.00	35417.00	<u>284.00</u>
312	5608.00	15547.00	2029.00	20303.00	21875.00	21012.00	<u>280.00</u>
313	8418.00	15794.00	2187.00	20281.00	31275.00	30686.00	<u>283.00</u>
314	10822.00	17842.00	1970.00	20284.00	38524.00	37431.00	<u>284.00</u>
315	5908.00	15368.00	2181.00	20604.00	22535.00	22487.00	<u>284.00</u>
316	9507.00	16953.00	2318.00	20067.00	35105.00	34235.00	<u>286.00</u>
317	11210.00	17878.00	2262.00	20750.00	39076.00	37875.00	<u>284.00</u>
318	6035.00	14839.00	2098.00	20838.00	22933.00	22668.00	<u>282.00</u>
319	10674.00	17332.00	2081.00	20362.00	39470.00	38203.00	<u>281.00</u>
320	5347.00	12864.00	1966.00	20882.00	21190.00	21152.00	<u>286.00</u>
321	8370.00	16951.00	2241.00	20214.00	32696.00	30597.00	<u>285.00</u>
322	11065.00	17362.00	2127.00	20349.00	39326.00	38463.00	<u>279.00</u>
323	12209.00	16670.00	2201.00	20378.00	41695.00	39657.00	<u>279.00</u>
324	9589.00	18057.00	1946.00	20539.00	35453.00	34784.00	<u>281.00</u>
325	10185.00	18474.00	2161.00	20588.00	37709.00	36445.00	<u>289.00</u>
326	6985.00	16254.00	2188.00	21066.00	27997.00	28172.00	<u>287.00</u>
327	10921.00	14776.00	2086.00	20678.00	39455.00	37148.00	<u>280.00</u>
328	7752.00	14818.00	2110.00	20302.00	29638.00	28910.00	<u>284.00</u>
329	6506.00	15344.00	2096.00	20549.00	25479.00	25303.00	<u>277.00</u>
330	9301.00	16610.00	1979.00	20097.00	35566.00	33247.00	<u>279.00</u>
331	9114.00	15914.00	2153.00	21026.00	33984.00	32962.00	<u>286.00</u>
332	10929.00	18959.00	2232.00	20197.00	40008.00	38199.00	<u>281.00</u>

Best Results:

hr\_sre\_dacc:  $335/332 = 100.90\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 2919.28%

dace\_src: 5482.54%

dace\_trc: 643.91%

ce\_trc: 7112.92%

ce\_swc: 11407.60%

ce\_cc: 11044.24%

Table 47: Experiment Data

<b>spatial-ontology</b>
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i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	528.00	917.00	1253.00	2043.00	1747.00	1862.00	<u>268.00</u>
2	808.00	1302.00	1246.00	1998.00	2521.00	2756.00	<u>268.00</u>
3	985.00	1640.00	1201.00	1957.00	2781.00	3001.00	<u>268.00</u>
4	1093.00	1715.00	1313.00	2136.00	2829.00	3040.00	<u>266.00</u>
5	681.00	1206.00	1311.00	1972.00	2399.00	2549.00	<u>279.00</u>
6	463.00	633.00	1013.00	1994.00	2227.00	2306.00	<u>340.00</u>
7	463.00	639.00	1028.00	2201.00	2641.00	2692.00	<u>348.00</u>
8	534.00	775.00	1016.00	2149.00	1347.00	1492.00	<u>307.00</u>
9	536.00	840.00	1100.00	2084.00	1350.00	1497.00	<u>294.00</u>
10	461.00	640.00	1045.00	2046.00	1324.00	1487.00	<u>314.00</u>
11	461.00	633.00	1035.00	2179.00	1349.00	1484.00	<u>308.00</u>
12	456.00	628.00	1020.00	2174.00	1285.00	1442.00	<u>319.00</u>
13	460.00	632.00	917.00	2108.00	1309.00	1457.00	<u>310.00</u>
14	539.00	787.00	982.00	2005.00	2751.00	2816.00	<u>348.00</u>
15	548.00	841.00	1080.00	2186.00	2664.00	2854.00	<u>331.00</u>
16	2007.00	2589.00	1317.00	2022.00	2740.00	2984.00	<u>270.00</u>
17	1633.00	2326.00	1315.00	2004.00	2531.00	2707.00	<u>274.00</u>
18	2039.00	2542.00	1264.00	1947.00	2773.00	2876.00	<u>279.00</u>
19	1451.00	1905.00	1304.00	1912.00	2281.00	2461.00	<u>273.00</u>
20	464.00	638.00	1018.00	2028.00	2787.00	2979.00	<u>316.00</u>
21	607.00	954.00	1100.00	2048.00	2702.00	2801.00	<u>308.00</u>
22	999.00	1519.00	1324.00	1965.00	2765.00	2941.00	<u>272.00</u>
23	745.00	1313.00	1228.00	1888.00	2629.00	2823.00	<u>270.00</u>
24	461.00	634.00	1036.00	2184.00	1865.00	1988.00	<u>369.00</u>
25	469.00	634.00	1094.00	2064.00	802.00	552.00	<u>310.00</u>
26	470.00	634.00	1020.00	2127.00	1473.00	1585.00	<u>320.00</u>
27	952.00	1552.00	1250.00	1977.00	2729.00	2941.00	<u>268.00</u>
28	870.00	1284.00	1301.00	1913.00	2714.00	2849.00	<u>275.00</u>
29	465.00	636.00	991.00	2172.00	1359.00	1563.00	<u>370.00</u>
30	464.00	633.00	1073.00	1990.00	788.00	549.00	<u>317.00</u>
31	550.00	846.00	1102.00	2160.00	2771.00	2837.00	<u>317.00</u>
32	540.00	839.00	1008.00	2152.00	2762.00	2966.00	<u>366.00</u>
33	465.00	635.00	1017.00	2112.00	1872.00	2000.00	<u>322.00</u>
34	462.00	634.00	974.00	2138.00	1471.00	1609.00	<u>326.00</u>
35	463.00	651.00	1020.00	2101.00	1401.00	1542.00	<u>369.00</u>
36	463.00	634.00	1021.00	2173.00	1841.00	1978.00	<u>332.00</u>
37	620.00	1005.00	1014.00	2244.00	2820.00	2866.00	<u>324.00</u>
38	465.00	630.00	1036.00	2108.00	785.00	693.00	<u>394.00</u>
39	462.00	627.00	1060.00	2021.00	769.00	676.00	<u>344.00</u>
40	461.00	639.00	1098.00	2146.00	789.00	698.00	<u>338.00</u>
41	542.00	783.00	982.00	2219.00	2636.00	2773.00	<u>333.00</u>
42	468.00	639.00	940.00	2177.00	1477.00	1607.00	<u>292.00</u>

43	469.00	634.00	1015.00	2085.00	2321.00	2508.00	<u>293.00</u>
44	452.00	616.00	1012.00	2165.00	1716.00	1834.00	<u>303.00</u>
45	464.00	630.00	1019.00	1997.00	1721.00	1847.00	<u>308.00</u>
46	939.00	1457.00	1304.00	1924.00	2608.00	2907.00	<u>276.00</u>
47	1139.00	1734.00	1307.00	1950.00	2853.00	3089.00	<u>268.00</u>
48	461.00	636.00	1024.00	2059.00	2856.00	2999.00	<u>312.00</u>
49	459.00	627.00	1012.00	2129.00	2804.00	3000.00	<u>309.00</u>
50	538.00	837.00	1052.00	2217.00	2563.00	2760.00	<u>306.00</u>
51	538.00	785.00	930.00	2089.00	2638.00	2799.00	<u>315.00</u>
52	1607.00	2187.00	1289.00	2003.00	2394.00	2620.00	<u>283.00</u>
53	2287.00	2742.00	1294.00	1924.00	2908.00	3069.00	<u>290.00</u>
54	2214.00	2786.00	1228.00	1924.00	2918.00	3017.00	<u>285.00</u>
55	2259.00	2679.00	1267.00	1974.00	2890.00	3080.00	<u>274.00</u>
56	1899.00	2485.00	1339.00	1896.00	2769.00	2844.00	<u>271.00</u>
57	1619.00	2271.00	1223.00	1966.00	2490.00	2698.00	<u>276.00</u>
58	977.00	1662.00	1235.00	2119.00	1496.00	1603.00	<u>280.00</u>
59	1784.00	2427.00	1283.00	1966.00	2575.00	2817.00	<u>277.00</u>
60	2088.00	2711.00	1234.00	2073.00	2801.00	2987.00	<u>288.00</u>
61	467.00	631.00	1051.00	2207.00	2418.00	2694.00	<u>295.00</u>
62	543.00	847.00	993.00	2142.00	2466.00	2736.00	<u>305.00</u>
63	2141.00	2768.00	1310.00	2013.00	2825.00	3036.00	<u>271.00</u>
64	2214.00	2757.00	1240.00	1986.00	2802.00	3031.00	<u>279.00</u>
65	2123.00	2678.00	1303.00	1998.00	2777.00	3015.00	<u>277.00</u>
66	1858.00	2475.00	1280.00	1961.00	2670.00	2861.00	<u>271.00</u>
67	462.00	634.00	1025.00	2151.00	741.00	614.00	<u>292.00</u>
68	452.00	626.00	1066.00	2088.00	739.00	533.00	<u>287.00</u>
69	544.00	841.00	1059.00	2070.00	2512.00	2752.00	<u>298.00</u>
70	686.00	1014.00	1063.00	2192.00	2464.00	2650.00	<u>288.00</u>
71	1560.00	2217.00	1273.00	2054.00	2458.00	3064.00	<u>283.00</u>
72	1401.00	1988.00	1284.00	1936.00	2838.00	2950.00	<u>282.00</u>
73	1234.00	1825.00	1245.00	1972.00	2758.00	2906.00	<u>277.00</u>
74	1111.00	1708.00	1230.00	1983.00	2638.00	2908.00	<u>276.00</u>
75	1338.00	1770.00	1282.00	1897.00	2837.00	2917.00	<u>276.00</u>
76	1505.00	1933.00	1273.00	1982.00	2858.00	3040.00	<u>281.00</u>
77	1475.00	1887.00	1312.00	1935.00	2876.00	2961.00	<u>279.00</u>
78	865.00	1407.00	1263.00	1909.00	2355.00	2504.00	<u>284.00</u>
79	1532.00	2125.00	1269.00	1959.00	2856.00	3073.00	<u>270.00</u>
80	1265.00	1746.00	1355.00	2023.00	2770.00	2900.00	<u>277.00</u>
81	1199.00	1759.00	1240.00	1987.00	2668.00	2894.00	<u>267.00</u>
82	921.00	1461.00	1256.00	2013.00	2385.00	2480.00	<u>274.00</u>
83	1754.00	2430.00	1224.00	1972.00	2689.00	2814.00	<u>294.00</u>
84	462.00	623.00	989.00	2088.00	767.00	533.00	<u>339.00</u>
85	1534.00	2148.00	1220.00	1958.00	2487.00	2640.00	<u>302.00</u>

86	465.00	638.00	1051.00	2035.00	1851.00	1970.00	<u>326.00</u>
87	1994.00	2552.00	1254.00	2030.00	2820.00	2994.00	<u>292.00</u>
88	621.00	968.00	1055.00	2049.00	2992.00	3210.00	<u>318.00</u>
89	1830.00	2441.00	1284.00	1973.00	2757.00	2959.00	<u>287.00</u>
90	467.00	645.00	1009.00	2139.00	2811.00	3036.00	<u>313.00</u>
91	1946.00	2517.00	1321.00	1914.00	2805.00	2968.00	<u>296.00</u>
92	549.00	839.00	1065.00	2143.00	1543.00	1653.00	<u>338.00</u>
93	1729.00	2376.00	1245.00	1977.00	2576.00	2806.00	<u>289.00</u>
94	472.00	642.00	954.00	2192.00	1687.00	1845.00	<u>319.00</u>
95	1927.00	2496.00	1198.00	1971.00	2814.00	3040.00	<u>316.00</u>
96	460.00	639.00	1045.00	2273.00	2758.00	2712.00	<u>363.00</u>
97	545.00	798.00	1031.00	2041.00	2660.00	2804.00	<u>354.00</u>
98	553.00	792.00	1099.00	2063.00	2754.00	2893.00	<u>323.00</u>
99	621.00	1003.00	1038.00	2146.00	2888.00	2943.00	<u>320.00</u>
100	1917.00	2538.00	1320.00	2039.00	2803.00	3002.00	<u>284.00</u>
101	615.00	1009.00	968.00	2172.00	2948.00	3122.00	<u>317.00</u>
102	1803.00	2452.00	1232.00	2062.00	2672.00	2869.00	<u>283.00</u>
103	465.00	636.00	1047.00	2170.00	1464.00	1589.00	<u>315.00</u>
104	1523.00	2198.00	1200.00	2009.00	2549.00	2615.00	<u>285.00</u>
105	551.00	797.00	963.00	2082.00	2324.00	2484.00	<u>317.00</u>
106	461.00	632.00	1079.00	2055.00	780.00	621.00	<u>332.00</u>
107	468.00	635.00	1061.00	2136.00	1956.00	2016.00	<u>291.00</u>
108	465.00	638.00	1087.00	2150.00	1954.00	2038.00	<u>299.00</u>
109	548.00	853.00	1028.00	2174.00	2748.00	2866.00	<u>458.00</u>
110	463.00	636.00	1035.00	2157.00	781.00	546.00	<u>372.00</u>
111	551.00	795.00	1108.00	2101.00	2742.00	2913.00	<u>390.00</u>
112	547.00	797.00	1052.00	2167.00	2755.00	2686.00	<u>445.00</u>
113	467.00	632.00	1040.00	2202.00	1859.00	1970.00	<u>392.00</u>
114	469.00	633.00	1045.00	2131.00	2670.00	2856.00	<u>392.00</u>
115	613.00	998.00	948.00	2139.00	1084.00	1274.00	<u>368.00</u>
116	461.00	633.00	978.00	2138.00	784.00	547.00	<u>317.00</u>
117	542.00	792.00	1075.00	2208.00	1091.00	1276.00	<u>317.00</u>
118	470.00	637.00	1013.00	2098.00	2931.00	3000.00	<u>371.00</u>
119	465.00	635.00	1073.00	2209.00	1846.00	2003.00	<u>329.00</u>
120	467.00	636.00	1050.00	2018.00	2403.00	2440.00	<u>323.00</u>

Best Results:

hr\_sre\_dacc: 120/120 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 213.45%

dace\_src: 336.71%

dace\_trc: 273.54%

ce\_trc: 574.12%

ce\_swc: 643.61%

ce\_cc: 687.30%

Table 48: Experiment Data

subcellular-anatomy-ontology-sao-							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	2391.00	17283.00	4224.00	63595.00	110771.00	108991.00	<u>379.00</u>
2	2509.00	17329.00	4104.00	64735.00	134189.00	126925.00	<u>383.00</u>
3	1687.00	12169.00	4107.00	65593.00	49321.00	50098.00	<u>368.00</u>
4	2746.00	15931.00	3859.00	64997.00	133889.00	130572.00	<u>367.00</u>
5	2215.00	16665.00	4182.00	64402.00	107461.00	108191.00	<u>360.00</u>
6	4663.00	22071.00	3954.00	65235.00	127726.00	116853.00	<u>374.00</u>
7	2243.00	15472.00	4043.00	64884.00	107518.00	103689.00	<u>394.00</u>
8	2218.00	11652.00	3652.00	65247.00	56257.00	55733.00	<u>362.00</u>
9	3053.00	16531.00	4047.00	65821.00	111258.00	110613.00	<u>382.00</u>
10	3722.00	22752.00	4330.00	66587.00	105719.00	104761.00	<u>383.00</u>
11	3799.00	21142.00	4154.00	65130.00	108426.00	106789.00	<u>376.00</u>
12	4097.00	23837.00	4091.00	66037.00	137153.00	131346.00	<u>376.00</u>
13	1500.00	8905.00	3989.00	64368.00	49479.00	49697.00	<u>365.00</u>
14	2626.00	18543.00	3946.00	64898.00	136409.00	135713.00	<u>374.00</u>
15	2476.00	19648.00	3984.00	65038.00	110703.00	108297.00	<u>392.00</u>
16	2776.00	18475.00	4127.00	65576.00	113041.00	111407.00	<u>393.00</u>
17	2364.00	15099.00	3996.00	64959.00	106852.00	103259.00	<u>388.00</u>
18	2634.00	13624.00	4056.00	65341.00	103652.00	104395.00	<u>392.00</u>
19	3308.00	17498.00	3882.00	65743.00	137322.00	133026.00	<u>376.00</u>
20	2359.00	16282.00	4048.00	65854.00	95915.00	92160.00	<u>373.00</u>
21	1956.00	11480.00	4140.00	64621.00	35687.00	35848.00	<u>379.00</u>
22	2017.00	13049.00	4033.00	65586.00	55029.00	55962.00	<u>358.00</u>
23	1889.00	11436.00	4120.00	65076.00	104450.00	105035.00	<u>372.00</u>
24	1657.00	11043.00	4041.00	63932.00	97516.00	97255.00	<u>373.00</u>
25	5110.00	25944.00	4090.00	65951.00	130608.00	118356.00	<u>376.00</u>
26	2514.00	18730.00	3892.00	66137.00	116302.00	115498.00	<u>376.00</u>
27	1954.00	12839.00	3934.00	65720.00	105660.00	105051.00	<u>380.00</u>
28	1967.00	11823.00	4256.00	65527.00	108835.00	105813.00	<u>374.00</u>
29	2836.00	18262.00	3917.00	64257.00	135211.00	133420.00	<u>377.00</u>
30	1962.00	11266.00	4115.00	64747.00	116079.00	114199.00	<u>372.00</u>
31	1937.00	12818.00	3916.00	66158.00	117255.00	113534.00	<u>368.00</u>

32	2652.00	12747.00	4046.00	64936.00	137549.00	129498.00	<u>376.00</u>
33	2142.00	12618.00	3963.00	65903.00	108649.00	107477.00	<u>379.00</u>
34	2671.00	15650.00	4255.00	63729.00	134915.00	132226.00	<u>378.00</u>
35	2365.00	15115.00	3648.00	64565.00	110726.00	107370.00	<u>381.00</u>
36	2504.00	10863.00	2884.00	64327.00	91077.00	89276.00	<u>371.00</u>
37	3110.00	11625.00	3261.00	66033.00	108071.00	107512.00	<u>365.00</u>
38	1277.00	4833.00	2716.00	65453.00	32950.00	34203.00	<u>372.00</u>
39	7266.00	26662.00	5351.00	66595.00	132778.00	132036.00	<u>770.00</u>
40	6570.00	26340.00	4923.00	66868.00	113135.00	111813.00	<u>817.00</u>
41	4931.00	21194.00	4191.00	65987.00	102362.00	100435.00	<u>569.00</u>
42	5386.00	23746.00	4989.00	65506.00	111222.00	108732.00	<u>777.00</u>
43	6149.00	25325.00	4340.00	65182.00	116184.00	110829.00	<u>546.00</u>
44	5933.00	33058.00	5686.00	66782.00	112755.00	114251.00	<u>965.00</u>
45	1300.00	5519.00	2942.00	65023.00	10955.00	11356.00	<u>919.00</u>
46	6439.00	26068.00	5065.00	65375.00	121030.00	116115.00	<u>893.00</u>
47	6387.00	34232.00	5402.00	68023.00	111882.00	110121.00	<u>1158.00</u>
48	6777.00	47883.00	6477.00	67345.00	119612.00	116664.00	<u>2934.00</u>
49	7267.00	27767.00	5086.00	67124.00	133422.00	129375.00	<u>857.00</u>
50	2715.00	10209.00	2964.00	64044.00	102623.00	100501.00	<u>365.00</u>
51	7786.00	61156.00	6277.00	67740.00	143396.00	131780.00	<u>3709.00</u>
52	5694.00	38502.00	7358.00	67296.00	100554.00	100274.00	<u>1416.00</u>
53	4519.00	22131.00	5016.00	66049.00	80730.00	82374.00	<u>758.00</u>
54	6765.00	36474.00	5470.00	65702.00	130026.00	118201.00	<u>1064.00</u>
55	7282.00	40227.00	6542.00	67141.00	134260.00	136456.00	<u>3443.00</u>
56	4115.00	27557.00	5023.00	67449.00	136520.00	131563.00	<u>1480.00</u>
57	7139.00	27849.00	4152.00	67129.00	129464.00	129965.00	<u>899.00</u>
58	7012.00	21501.00	4054.00	65609.00	138714.00	131189.00	<u>565.00</u>
59	7233.00	34625.00	5209.00	65891.00	133290.00	133063.00	<u>916.00</u>

Best Results:

hr\_sre\_dacc: 59/59 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 568.97%

dace\_src: 3543.49%

dace\_trc: 765.94%

ce\_trc: 13749.73%

ce\_swc: 22421.96%

ce\_cc: 21912.43%



Table 49: Experiment Data

terminology-for-the-description-of-dynamics							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swk	ce_cc	hr_sre_dacc
1	587.00	1046.00	1048.00	1692.00	2453.00	2548.00	<u>277.00</u>
2	778.00	1132.00	945.00	1747.00	2700.00	2677.00	<u>271.00</u>
3	730.00	1192.00	1027.00	1695.00	2470.00	2490.00	<u>283.00</u>
4	672.00	1115.00	1062.00	1739.00	2173.00	2258.00	<u>279.00</u>
5	848.00	1353.00	1131.00	1750.00	2475.00	2528.00	<u>319.00</u>
6	939.00	1457.00	1061.00	1762.00	2536.00	2526.00	<u>302.00</u>
7	962.00	1277.00	951.00	1689.00	2631.00	2664.00	<u>291.00</u>
8	441.00	814.00	951.00	1762.00	2163.00	2222.00	<u>312.00</u>
9	581.00	960.00	1007.00	1719.00	2267.00	2407.00	<u>284.00</u>
10	724.00	1233.00	871.00	1711.00	2465.00	2474.00	<u>283.00</u>
11	665.00	1138.00	1004.00	1664.00	2422.00	2412.00	<u>274.00</u>
12	631.00	1171.00	1011.00	1749.00	2807.00	2753.00	<u>274.00</u>
13	791.00	1204.00	1012.00	1731.00	2696.00	2715.00	<u>273.00</u>
14	552.00	921.00	961.00	1755.00	2210.00	2346.00	<u>299.00</u>
15	668.00	1061.00	1002.00	1680.00	2746.00	2816.00	<u>306.00</u>
16	1073.00	1725.00	1000.00	1742.00	2743.00	2778.00	<u>282.00</u>
17	790.00	1218.00	978.00	1726.00	2508.00	2585.00	<u>313.00</u>
18	982.00	1718.00	1152.00	1742.00	2734.00	2756.00	<u>307.00</u>
19	753.00	1182.00	844.00	1704.00	2693.00	2714.00	<u>295.00</u>
20	980.00	1637.00	978.00	1680.00	2733.00	2793.00	<u>313.00</u>
21	951.00	1377.00	1008.00	1658.00	2777.00	2789.00	<u>290.00</u>
22	699.00	1212.00	1003.00	1728.00	2702.00	2812.00	<u>303.00</u>
23	585.00	1035.00	928.00	1696.00	2153.00	2220.00	<u>304.00</u>
24	901.00	1389.00	1028.00	1693.00	2664.00	2621.00	<u>301.00</u>
25	695.00	1415.00	1020.00	1702.00	2240.00	2355.00	<u>688.00</u>
26	661.00	1068.00	1030.00	1809.00	2808.00	2826.00	<u>286.00</u>
27	493.00	951.00	1019.00	1776.00	1012.00	1122.00	<u>336.00</u>
28	637.00	1100.00	990.00	1715.00	2209.00	2288.00	<u>277.00</u>
29	723.00	1343.00	1095.00	1769.00	2202.00	2200.00	<u>299.00</u>
30	668.00	1295.00	1027.00	1841.00	2493.00	2526.00	<u>322.00</u>
31	793.00	1254.00	1014.00	1733.00	2322.00	2432.00	<u>278.00</u>
32	782.00	1382.00	1150.00	1739.00	2188.00	2297.00	<u>313.00</u>
33	814.00	1205.00	1012.00	1737.00	2537.00	2627.00	<u>312.00</u>
34	592.00	1038.00	1017.00	1728.00	2509.00	2540.00	<u>312.00</u>
35	725.00	1276.00	1020.00	1682.00	2454.00	2498.00	<u>302.00</u>
36	871.00	1366.00	1005.00	1708.00	2833.00	2778.00	<u>676.00</u>
37	496.00	902.00	954.00	1708.00	2394.00	2462.00	<u>285.00</u>
38	669.00	1215.00	990.00	1771.00	2379.00	2455.00	<u>328.00</u>
39	626.00	1043.00	953.00	1738.00	2615.00	2657.00	<u>305.00</u>

40	786.00	1322.00	964.00	1796.00	2440.00	2532.00	<u>307.00</u>
41	738.00	1311.00	1019.00	1733.00	2318.00	2397.00	<u>675.00</u>
42	625.00	1048.00	976.00	1816.00	2828.00	2789.00	<u>286.00</u>
43	584.00	1013.00	909.00	1683.00	2167.00	2289.00	<u>332.00</u>
44	666.00	1127.00	996.00	1761.00	2705.00	2667.00	<u>308.00</u>
45	714.00	1248.00	1035.00	1723.00	2409.00	2473.00	<u>306.00</u>
46	729.00	1382.00	1044.00	1749.00	2409.00	2427.00	<u>704.00</u>
47	450.00	820.00	936.00	1727.00	2423.00	2437.00	<u>287.00</u>
48	852.00	1349.00	906.00	1815.00	2784.00	2784.00	<u>338.00</u>
49	749.00	1164.00	1027.00	1745.00	2771.00	2780.00	<u>274.00</u>
50	587.00	1004.00	1002.00	1707.00	2763.00	2804.00	<u>280.00</u>
51	586.00	1007.00	951.00	1767.00	1904.00	1979.00	<u>296.00</u>

Best Results:

hr\_sre\_dacc: 51/51 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 130.25%

dace\_src: 283.26%

dace\_trc: 221.61%

ce\_trc: 457.69%

ce\_swc: 697.27%

ce\_cc: 711.55%

Table 50: Experiment Data

translational-medicine-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_swc	ce_cc	hr_sre_dacc
1	952.00	1562.00	1414.00	2842.00	4598.00	4602.00	<u>390.00</u>
2	984.00	1629.00	1265.00	2745.00	3901.00	3904.00	<u>391.00</u>
3	858.00	1499.00	1318.00	2784.00	4066.00	4083.00	<u>380.00</u>
4	1057.00	1710.00	1264.00	2640.00	4880.00	4902.00	<u>393.00</u>
5	1091.00	1872.00	1242.00	3027.00	4325.00	4290.00	<u>386.00</u>
6	1032.00	1740.00	1297.00	2611.00	4521.00	4378.00	<u>394.00</u>
7	926.00	1545.00	1269.00	2788.00	3503.00	3595.00	<u>383.00</u>
8	1289.00	2169.00	1301.00	2681.00	4089.00	4142.00	<u>444.00</u>
9	902.00	1692.00	1388.00	2843.00	4130.00	4070.00	<u>424.00</u>

10	1006.00	1704.00	1352.00	3068.00	5288.00	5244.00	<u>497.00</u>
11	915.00	1617.00	1459.00	3128.00	3663.00	3780.00	<u>669.00</u>
12	1232.00	2310.00	1532.00	2896.00	3580.00	5044.00	<u>839.00</u>
13	1083.00	1661.00	1273.00	2925.00	4598.00	4608.00	<u>394.00</u>
14	1206.00	2000.00	1361.00	2835.00	4950.00	4932.00	<u>390.00</u>
15	1131.00	1734.00	1147.00	3048.00	4376.00	4331.00	<u>406.00</u>
16	948.00	1652.00	1268.00	2808.00	3621.00	3566.00	<u>392.00</u>
17	1088.00	1795.00	1326.00	2773.00	4561.00	4557.00	<u>397.00</u>
18	556.00	1079.00	1351.00	2996.00	2945.00	3034.00	<u>384.00</u>
19	905.00	1558.00	1343.00	2773.00	4019.00	4069.00	<u>387.00</u>
20	1172.00	1847.00	1328.00	2980.00	4461.00	4548.00	<u>388.00</u>
21	1051.00	1723.00	1229.00	2780.00	4546.00	4498.00	<u>389.00</u>
22	1132.00	1665.00	1274.00	2865.00	4868.00	4792.00	<u>384.00</u>
23	1179.00	1797.00	1148.00	3069.00	4844.00	4818.00	<u>393.00</u>
24	1135.00	1863.00	1282.00	2814.00	5156.00	5177.00	<u>382.00</u>
25	950.00	1614.00	1324.00	2945.00	4321.00	4239.00	<u>371.00</u>
26	850.00	1627.00	1021.00	2565.00	2979.00	3071.00	<u>383.00</u>
27	855.00	1644.00	1361.00	2632.00	4683.00	4601.00	<u>391.00</u>
28	906.00	1483.00	1313.00	2836.00	3824.00	3811.00	<u>387.00</u>
29	1174.00	1864.00	1241.00	3242.00	4691.00	4733.00	<u>393.00</u>
30	1153.00	1707.00	1355.00	2867.00	4605.00	4576.00	<u>390.00</u>
31	905.00	1603.00	1315.00	2892.00	4831.00	4890.00	<u>390.00</u>
32	909.00	1558.00	1261.00	2829.00	4752.00	4742.00	<u>390.00</u>
33	1032.00	1683.00	1237.00	3038.00	4754.00	4721.00	<u>389.00</u>
34	1188.00	1675.00	1241.00	2755.00	4974.00	5027.00	<u>390.00</u>
35	795.00	1533.00	1296.00	3044.00	4493.00	4557.00	<u>387.00</u>
36	847.00	1555.00	1308.00	2814.00	4813.00	4780.00	<u>385.00</u>
37	902.00	1547.00	1189.00	2829.00	4172.00	4066.00	<u>463.00</u>
38	646.00	1180.00	1351.00	2641.00	3924.00	3992.00	<u>381.00</u>
39	554.00	1116.00	1243.00	2665.00	2723.00	2785.00	<u>376.00</u>
40	460.00	701.00	1145.00	3209.00	787.00	789.00	<u>427.00</u>
41	898.00	1684.00	1337.00	2875.00	4017.00	4156.00	<u>392.00</u>
42	788.00	1499.00	1335.00	2873.00	2947.00	3070.00	<u>390.00</u>
43	993.00	1633.00	1257.00	2749.00	4480.00	4506.00	<u>383.00</u>
44	912.00	1490.00	1233.00	2766.00	4147.00	4177.00	<u>391.00</u>
45	906.00	1612.00	1241.00	3015.00	3997.00	4042.00	<u>389.00</u>
46	1170.00	1890.00	1253.00	2992.00	4557.00	4498.00	<u>389.00</u>

Best Results:

hr\_sre\_dacc: 46/46 = 100.00%;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 140.21%  
dace\_src: 304.67%  
dace\_trc: 219.18%  
ce\_trc: 610.82%  
ce\_sw: 945.27%  
ce\_cc: 951.02%

Table 51: Experiment Data

vertebrate-anatomy-ontology							
i	ce_src	dace_src	dace_trc	ce_trc	ce_sw	ce_cc	hr_sre_dacc
1	514.00	749.00	784.00	1719.00	2302.00	2271.00	<u>264.00</u>
2	<u>412.00</u>	592.00	806.00	1728.00	1187.00	1318.00	498.00
3	465.00	690.00	804.00	1704.00	1129.00	1262.00	<u>365.00</u>
4	473.00	744.00	843.00	1801.00	2580.00	2579.00	<u>281.00</u>
5	395.00	579.00	845.00	1949.00	1094.00	1219.00	<u>389.00</u>
6	631.00	947.00	860.00	1881.00	2683.00	2649.00	<u>282.00</u>

Best Results:

hr\_sre\_dacc:  $5/6 = 83.33\%$ ;

ce\_src:  $1/6 = 16.67\%$ ;

Comparing with Full Kernel Set (Average Difference in %):

ce\_src: 49.74%  
dace\_src: 123.51%  
dace\_trc: 150.21%  
ce\_trc: 445.66%  
ce\_sw: 495.07%  
ce\_cc: 506.86%