

RandomWalking

Summary:

observation compound(the compound you want to observe, which is label with color red!):
C00018,C00075,C00322

reaction deficient: R00018

default_value: 100, epoches: 500000, thread: 8

specified_value(the compound you altered, which is label with color red!):

C00002: 500, C00008: 595, C00020: 955, C00003: 10, C00004: 100, C00006: 195, C00005: 62,
C00010: 123, C00009: 100, C00011: 1350, C00014: 10000, C00031: 220000, C00095: 230000,
C00092: 3480, C00085: 600, C00354: 272, C00118: 218, C00111: 167, C03339: 8, C00197: 2500,
C00074: 2670, C00022: 2670, C04442: 808, C00199: 111, C01101: 111, C00117: 398, C00231:
138, C03291: 138, C00279: 980, C05382: 276, C00024: 300, C00036: 680, C00158: 150, C00311:
170, C00026: 180, C00042: 190, C00149: 60, C00497: 60, C00049: 1340, C00402: 1340, C00575:
8, C00001: 1000,

Results(TOP100):

C00018: pyridoxal 5'-phosphate, 238, delta:138, normalize_delta:1.38

C00075: UTP, 0, delta:-100, normalize_delta:-1.0

C00322: 2-oxoadipic acid, 78, delta:-22, normalize_delta:-0.22

C00013: diphosphate(4-), 3059, delta:2959, normalize_delta:29.59

C00010: coenzyme A, 3367, delta:3244, normalize_delta:26.37398

C00009: phosphate(3-), 2645, delta:2545, normalize_delta:25.45

C00080: hydron, 2020, delta:1920, normalize_delta:19.2

C00363: dTDP, 1905, delta:1805, normalize_delta:18.05

C01327: hydrogen chloride, 1752, delta:1652, normalize_delta:16.52

C00033: acetic acid, 1496, delta:1396, normalize_delta:13.96

C00015: UDP, 1439, delta:1339, normalize_delta:13.39

C00055: cytidine 5'-monophosphate, 1177, delta:1077, normalize_delta:10.77

C00229: holo-[acyl-carrier protein], 947, delta:847, normalize_delta:8.47

C00011: carbon dioxide, 11454, delta:10104, normalize_delta:7.48444

C00698: chloride, 779, delta:679, normalize_delta:6.79

C00035: GDP, 749, delta:649, normalize_delta:6.49

C00084: acetaldehyde, 671, delta:571, normalize_delta:5.71

C00060: monocarboxylic acid anion, 639, delta:539, normalize_delta:5.39

C00041: L-alanine, 598, delta:498, normalize_delta:4.98

C00058: formate, 590, delta:490, normalize_delta:4.9

C00048: glyoxylic acid, 572, delta:472, normalize_delta:4.72

C00111: dihydroxyacetone phosphate, 834, delta:667, normalize_delta:3.99401

C00877: crotonoyl-CoA, 482, delta:382, normalize_delta:3.82

C00147: adenine, 406, delta:306, normalize_delta:3.06

C00005: NADPH, 251, delta:189, normalize_delta:3.04839

C00620: alpha-D-ribose 1-phosphate, 397, delta:297, normalize_delta:2.97

C00105: uridine 5'-monophosphate, 394, delta:294, normalize_delta:2.94

C00090: catechol, 375, delta:275, normalize_delta:2.75

C00404: polyphosphate, 375, delta:275, normalize_delta:2.75
C00069: alcohol, 371, delta:271, normalize_delta:2.71
C00071: aldehyde, 368, delta:268, normalize_delta:2.68
C00283: hydrogen sulfide, 367, delta:267, normalize_delta:2.67
C00262: hypoxanthine, 364, delta:264, normalize_delta:2.64
C00162: fatty acid, 357, delta:257, normalize_delta:2.57
C00046: RNA, 357, delta:257, normalize_delta:2.57
C00106: uracil, 353, delta:253, normalize_delta:2.53
C00454: nucleoside diphosphate, 347, delta:247, normalize_delta:2.47
C00103: alpha-D-glucose 1-phosphate, 340, delta:240, normalize_delta:2.4
C00242: guanine, 335, delta:235, normalize_delta:2.35
C13645: hydrogen bromide, 330, delta:230, normalize_delta:2.3
C01151: D-ribose 1 5-bisphosphate, 324, delta:224, normalize_delta:2.24
C00110: dolichyl phosphate, 321, delta:221, normalize_delta:2.21
C00261: benzaldehyde, 321, delta:221, normalize_delta:2.21
C00153: nicotinamide, 320, delta:220, normalize_delta:2.2
C00663: beta-D-glucose 1-phosphate, 318, delta:218, normalize_delta:2.18
C01879: 5-oxo-L-proline, 311, delta:211, normalize_delta:2.11
C00037: glycine, 307, delta:207, normalize_delta:2.07
C00433: 2 5-dioxopentanoic acid, 307, delta:207, normalize_delta:2.07
C14401: 2 4-diaminotoluene, 303, delta:203, normalize_delta:2.03
C05345: beta-D-fructofuranose 6-phosphate, 297, delta:197, normalize_delta:1.97
C00054: adenosine 3' 5'-bismonophosphate, 296, delta:196, normalize_delta:1.96
C00140: N-acetyl-D-glucosamine, 291, delta:191, normalize_delta:1.91
C00042: succinic acid, 551, delta:361, normalize_delta:1.9
C00119: 5-O-phosphono-alpha-D-ribofuranosyl diphosphate, 287, delta:187, normalize_delta:1.87
C00121: D-ribofuranose, 286, delta:186, normalize_delta:1.86
C00073: L-methionine, 279, delta:179, normalize_delta:1.79
C00470: [(1->4)-alpha-D-galacturonosyl]_n, 279, delta:179, normalize_delta:1.79
C00020: adenosine 5'-monophosphate, 2638, delta:1683, normalize_delta:1.7623
C00116: glycerol, 276, delta:176, normalize_delta:1.76
C00266: glycolaldehyde, 275, delta:175, normalize_delta:1.75
C01146: 2-hydroxy-3-oxopropanoic acid, 274, delta:174, normalize_delta:1.74
C02222: maleylacetic acid, 273, delta:173, normalize_delta:1.73
C00672: 2-deoxy-alpha-D-ribose 1-phosphate, 272, delta:172, normalize_delta:1.72
C00718: amylose, 271, delta:171, normalize_delta:1.71
C00059: sulfate, 270, delta:170, normalize_delta:1.7
C00894: acryloyl-CoA, 270, delta:170, normalize_delta:1.7
C14818: iron(2+), 268, delta:168, normalize_delta:1.68
C04317: 1-alkyl-sn-glycero-3-phosphocholine, 266, delta:166, normalize_delta:1.66
C00405: D-alpha-amino acid, 265, delta:165, normalize_delta:1.65
C06754: chloroacetaldehyde, 262, delta:162, normalize_delta:1.62
C00141: 3-methyl-2-oxobutanoate, 261, delta:161, normalize_delta:1.61
C00805: salicylic acid, 261, delta:161, normalize_delta:1.61

C01134: pantetheine 4'-phosphate, 260, delta:160, normalize_delta:1.6
C15810: C15810, 257, delta:157, normalize_delta:1.57
C03912: (S)-1-pyrroline-5-carboxylate, 255, delta:155, normalize_delta:1.55
C00165: diglyceride, 254, delta:154, normalize_delta:1.54
C00636: alpha-D-mannose 1-phosphate, 252, delta:152, normalize_delta:1.52
C03564: 1-pyrroline-2-carboxylate, 252, delta:152, normalize_delta:1.52
C04225: (Z)-but-2-ene-1,2,3-tricarboxylic acid, 251, delta:151, normalize_delta:1.51
C05819: menaquinol, 250, delta:150, normalize_delta:1.5
C00280: androst-4-ene-3,17-dione, 248, delta:148, normalize_delta:1.48
C01172: beta-D-glucose 6-phosphate, 246, delta:146, normalize_delta:1.46
C00232: succinic semialdehyde, 245, delta:145, normalize_delta:1.45
C00424: (S)-lactaldehyde, 244, delta:144, normalize_delta:1.44
C00577: D-glyceraldehyde, 244, delta:144, normalize_delta:1.44
C05235: hydroxyacetone, 244, delta:144, normalize_delta:1.44
C00018: pyridoxal 5'-phosphate, 238, delta:138, normalize_delta:1.38
C00067: formaldehyde, 238, delta:138, normalize_delta:1.38
C00124: D-galactopyranose, 235, delta:135, normalize_delta:1.35
C00364: dTMP, 235, delta:135, normalize_delta:1.35
C01326: hydrogen cyanide, 235, delta:135, normalize_delta:1.35
C04257: aldehydo-N-acetyl-D-mannosamine 6-phosphate, 235, delta:135, normalize_delta:1.35
C00587: 3-hydroxybenzoate, 234, delta:134, normalize_delta:1.34
C00760: (1->4)-beta-D-glucan, 234, delta:134, normalize_delta:1.34
C04076: L-allysine, 234, delta:134, normalize_delta:1.34
C00305: magnesium(2+), 233, delta:133, normalize_delta:1.33
C04233: 2-acyl-sn-glycero-3-phosphocholine(1+), 232, delta:132, normalize_delta:1.32
C00122: fumaric acid, 231, delta:131, normalize_delta:1.31
C00679: 5-dehydro-4-deoxy-D-glucaric acid, 230, delta:130, normalize_delta:1.3
C00246: butyrate, 229, delta:129, normalize_delta:1.29
C00531: itaconyl-CoA, 229, delta:129, normalize_delta:1.29
C04324: 4-carboxy-2-hydroxy-cis,cis-muconic acid, 229, delta:129, normalize_delta:1.29
C00184: dihydroxyacetone, 228, delta:128, normalize_delta:1.28

Annotation:

we output the compound you want to observe, and the top100 compound which altered and ordered by alter number(delta). the output features are compound id, compound name, the Final state value, altered value and normalized altered value from left to right. if you want to get all results, please download the .csv file!