

SUPPLEMENTARY MATERIAL

BicFinder: A Biclustering Algorithm for Microarray Data Analysis

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The Gene Ontology annotation

We show the most significant GO annotation table performed by *FuncAssociate* of five selected biclusters obtained by BICFINDER on the *Saccharomyces Cerevisiae* dataset. These biclusters show highly biological significance with very low p -value (p), e.g., Figure 1 with $p = 9.485e-225$.

This validates the claim that the proposed algorithm is capable of detecting biologically significant biclusters.

Biccluster 1

(YDL109C YPR176C YDL111C YDL112W YDL116W YDL119C YDL120W YDL122W YDL126C YDL127W YDL128W YDL131W YDL135C YDL136W YDL137W YDL138W YDL140C YDL142C YDL143W YDL147W YDL159W YDL160C YDL164C YDL165W YDL170W YDL171C YDL174C YDL179W YDL181W YDL184C YDL191W YDL192W YDL194W YDL195W YDL198C YDL200C YDL201W YDL202W YDL205C YDL219W YDL220C YDL226C YDL227C YDL229W YDL230W YDL232W YDL234C YDL235C YDL236W YDL239C YDL240W YDL245C YDL246C YDL247W YDR002W YDR004W YDR007W YDR009W YDR011W YDR012W YDR013W YDR016C YDR017C YDR018C YDR019C YDR021W YDR023W YDR025W YDR028C YDR035W YDR036C YDR038C YDR039C YDR040C YDR041W YDR043C YDR044W YDR045C YDR046C YDR047W YDR054C YDR057W YDR058C YDR062W YDR064W YDR069C YDR072C YDR073W YDR074W YDR076W YDR077W YDR079W YDR080W YDR085C YDR086C YDR088C YDR093W YDR096W YDR097C YDR098C YDR099W YDR113C YDR118W YDR127W YDR129C YDR131C YDR135C YDR137W YDR139C YDR142C YDR144C YDR146C YDR147W YDR150W YDR151C YDR153C YDR156W YDR158W YDR159W YDR164C YDR165W YDR167W YDR168W YDR170C YDR171W YDR172W YDR175C YDR178W YDR180W YDR181C YDR183W YDR188W YDR189W YDR190C YDR192C YDR196C YDR207C YDR208W YDR212W YDR213W YDR214W YDR216W YDR218C YDR219C YDR224C YDR225W YDR231C YDR232W YDR234W YDR235W YDR236C YDR243C YDR244W YDR245W YDR252W YDR253C YDR254W YDR258C YDR259C YDR261C YDR263C YDR264C YDR265W YDR272W YDR284C YDR285W YDR287W YDR293C YDR294C YDR295C YDR297W YDR298C YDR300C YDR302W YDR306C YDR308C YDR309C YDR310C YDR311W YDR313C YDR315C YDR318W YDR321W YDR328C YDR331W YDR334W YDR335W YDR337W YDR341C YDR342C YDR343C YDR345C YDR347W YDR353W YDR354W YDR356W YDR362C YDR364C YDR368W YDR369C YDR373W YDR377W YDR378C YDR379W YDR380W YDR384C YDR386W YDR394W YDR404C YDR406W YDR409W YDR410C YDR421W YDR423C YDR425W YDR427W YDR429C YDR435C YDR436W YDR443C YDR447C YDR448W YDR450W YDR451C YDR456W YDR457W YDR461W YDR463W YDR466W YDR468C YDR469W YDR471W YDR478W YDR480W YDR481C YDR483W YDR488C YDR489W YDR499W YDR500C YDR502C YDR503C YDR508C YDR510W YDR513W YDR524C YDR529C YDR531W YDR536W YEL002C YEL003W YEL004W YEL006W YEL009C YEL011W YEL013W YEL022W YEL024W YEL027W YEL030W YEL031W YEL032W YEL039C YEL050C YEL051W YEL053C YEL054C YEL055C YEL058W YEL060C YEL061C YEL062W YEL063C YEL064C YEL066W YEL069C YER001W YER003C YER007W YER009W YER011W YER012W YER013W YER014W YER015W YER016W YER017C YER018C YER019C-A YER019W YER020W YER021W YER022W YER023W YER027C YER028C YER029C YER031C YER035W YER042W YER045C YER053C YER054C YER056C YER059W YER065C YER069W YER073W YER074W YER081W YER086W YER089C YER090W YER091C YER093C YER094C YER096W YER098W YER099C YER102W YER105C YER110C YER111C YER112W YER116C YER117W YER118C YER119C YER120W YER127W YER131W YER142C YER144C YER146W YER149C YER153C YER155C YER159C YER161C YER162C YER166W YER168C YER172C YER173W YER174C YER177W YER179W YER183C YER190W YFL002C YFL003C YFL005W YFL008W YFL009W YFL011W YFL017C YFL021W YFL022C YFL024C YFL026W YFL028C YFL029C YFL030W YFL033C YFL036W YFL039C YFL045C YFL047W YFL050C YFL053W YFL054C YFL059W YFR001W YFR003C YFR005C YFR013W YFR014C YFR015C YFR019W YFR027W YFR028C YFR031C YFR031C-A YFR034C YFR040W YFR047C YFR049W YFR051C YFR052W YFR055W YGL001C YGL003C YGL006W YGL008C YGL009C YGL011C YGL012W YGL016W YGL017W YGL018C YGL019W YGL021W YGL025C YGL026C YGL027C YGL028C YGL031C YGL032C YGL035C YGL037C YGL038C YGL043W YGL048C YGL051W YGL055W YGL061C YGL063W YGL065C YGL067W YGL070C YGL075C YGL076C YGL089C YGL093W YGL097W YGL098W YGL105W YGL106W YGL121C YGL123W YGL134W YGL135W YGL136C YGL141W YGL143C YGL144C YGL147C YGL150C YGL153W YGL155W YGL158W YGL161C YGL162W YGL163C YGL166W YGL167C YGL170C YGL171W YGL173C YGL178W YGL184C YGL189C YGL192W YGL194C YGL198W YGL201C YGL202W YGL205W YGL206C YGL208W YGL209W YGL210W YGL212W YGL222C YGL225W YGL226C-A YGL229C YGL232W YGL237C YGL238W YGL240W YGL241W YGL243W YGL245W YGL248W YGL251C YGL252C YGL253W YGL254W YGL255W YGL256W YGL257C YGR002C YGR003W YGR005C YGR009C YGR010W YGR013W YGR024C YGR027C YGR029W YGR032W YGR048W YGR055W YGR059W YGR060W YGR063C YGR070W YGR074W YGR076C YGR080W YGR082W YGR083C YGR084C YGR085C YGR088W YGR090W YGR091W YGR094W YGR095C YGR096W YGR098C YGR099W YGR101W YGR108W YGR109C YGR112W YGR116W YGR118W YGR120C YGR121C YGR124W YGR129W YGR135W YGR138C YGR140W YGR148C YGR152C YGR155W YGR157W YGR161C YGR165W YGR167W YGR169C YGR171C YGR175C YGR177C YGR179C YGR180C YGR181W YGR183C YGR184C YGR185C YGR186W YGR188C YGR191W YGR193C YGR194C YGR195W YGR198W YGR199W YGR204W YGR209C YGR211W YGR214W YGR215W YGR217W YGR222W YGR224W YGR227W YGR239C YGR241C YGR244C YGR246C YGR247W YGR252W YGR253C YGR254W YGR255C YGR256W YGR257C YGR258C YGR262C YGR264C YGR270W YGR274C YGR276C YGR277C YGR279C YGR280C YGR281W YGR282C YGR286C YGR288W YGR289C YGR292W YGR296W YHL001W

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 YPR184W YPR185W YPR187W YPR191W YPR193C YPR198W
 YPR199C YPR201W)
 conditions 1 4 5 6 7 8 9 12 13 14 15 16 17 18 19 20 21 23 24 26 27
 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 50 51
 52 53 54 55 56 59 60 61 62 65 66 67 68 69 70 71 72 75 76 77 78
 79 80 81 82 84 85 86 87 88 89 90 91 92 93 94 95 96 97 99 100 101
 105 106 107 108 109 110 111 112 113 114 117 118 119 120 121
 126 127 135 136 137 138 139 140 141 145 146 147 148 149 151
 152 153 156 157 158 159 160 162 163 164 165 166 167 170 172
 ASR 0.3766635248435061
 Bicluster 2
 (YBL027W YBR084C-A YBL039C YBL057C YBL068W YBL072C
 YBL087C YBL092W YBR010W YBR031W YBR034C YBR048W
 YBR093C YBR104W YBR106W YBR118W YBR121C YBR154C
 YBR181C YBR189W YBR191W YBR205W YBR247C YBR249C
 YCL054W YCR031C YCR034W YCR035C YDL014W YDL051W
 YDL055C YDL061C YDL075W YDL081C YDL082W YDL083C
 YDL136W YDL148C YDL150W YDL153C YDL182W YDL184C
 YDL191W YDL192W YDL201W YDR002W YDR012W YDR023W
 YDR025W YDR037W YDR045C YDR064W YDR083W YDR086C
 YDR098C YDR120C YDR121W YDR158W YDR165W YDR172W
 YDR190C YDR211W YDR224C YDR225W YDR280W YDR300C
 YDR312W YDR324C YDR341C YDR365C YDR381W YDR382W
 YDR385W YDR397C YDR398W YDR418W YDR429C YDR440W

N	X	LOD	P ₋	P _{adj}	Gene-Ontology-ID	Gene-Ontology-Attribute
1823	4639	1.361	9.485e-225	<0.001	GO:0003674	molecular_function
1862	5526	1.777	2.683e-115	<0.001	GO:0008150	biological_process
1792	5194	0.8494	4.718e-91	<0.001	GO:0009987	cellular_process
1404	3581	0.4950	4.877e-84	<0.001	GO:0044238	primary_metabolic_process
953	2195	0.4267	7.812e-67	<0.001	GO:0003824	catalytic_activity
1488	4187	0.3990	2.188e-49	<0.001	GO:0044237	cellular_metabolic_process
1519	4321	0.4020	7.315e-48	<0.001	GO:0008152	metabolic_process
1829	5726	0.8005	7.870e-45	<0.001	GO:0044484	cell_part
1831	5741	0.8113	2.145e-44	<0.001	GO:0005575	cellular_component
770	1823	0.3517	7.612e-43	<0.001	GO:0032991	macromolecular_complex
1402	3982	0.3332	6.024e-38	<0.001	GO:0043226	organelle
1400	3980	0.3307	1.840e-37	<0.001	GO:0043229	intracellular_organelle
558	1259	0.3550	2.090e-35	<0.001	GO:0043234	protein_complex
717	1737	0.3183	1.492e-34	<0.001	GO:0005007	biological_regulation
1696	5176	0.4282	4.070e-34	<0.001	GO:0044424	intracellular_part
1020	2715	0.2876	8.871e-33	<0.001	GO:0044422	organelle_part
1020	2715	0.2876	6.871e-33	<0.001	GO:0044446	intracellular_organelle_part
1151	3162	0.2853	3.212e-32	<0.001	GO:0005488	binding
633	1510	0.3171	8.109e-32	<0.001	GO:0050794	regulation_of_cellular_process
648	1561	0.3107	3.586e-31	<0.001	GO:0050789	regulation_of_biological_process
789	1996	0.2903	7.188e-31	<0.001	GO:0009058	biosynthetic_process
761	1913	0.2911	1.788e-30	<0.001	GO:0044249	cellular_biosynthetic_process
205	361	0.5280	1.996e-28	<0.001	GO:0005196	structural_molecule_activity

Fig. 1. Most significant GO annotation table for bicluster 1.

YDR447C YDR450W YDR465C YDR471W YDR500C YEL026W
 YEL034W YEL042W YEL046C YEL054C YEL056W YER006W
 YER009W YER025W YER043C YER052C YER055C YER056C-
 A YER074W YER086W YER090W YER102W YER107C
 YER117W YER118C YER127W YER131W YER148W YER149C
 YER165W YFL002C YFL022C YFR001W YFR031C-A YGL008C
 YGL030W YGL031C YGL070C YGL076C YGL078C YGL097W
 YGL099W YGL103W YGL106W YGL120C YGL123W YGL135W
 YGL147C YGL148W YGL171W YGL189C YGR027C YGR034W
 YGR075C YGR083C YGR085C YGR094W YGR095C YGR118W
 YGR123C YGR148C YGR158C YGR185C YGR211W YGR214W
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 YHR010W YHR013C YHR019C YHR021C YHR025W YHR052W
 YHR066W YHR068W YHR072W YHR088W YHR089C YHR107C
 YHR141C YHR143W-A YHR169W YHR170W YHR193C YHR203C
 YHR208W YIL008W YIL018W YIL020C YIL021W YIL052C
 YIL053W YIL094C YIL118W YIL133C YIL142W YIL148W
 YIR026C YJL014W YJL050W YJL069C YJL111W YJL136C
 YJL138C YJL145W YJL148W YJL177W YJL179W YJL189W
 YJL190C YJL191W YJL198W YJL208C YJR007W YJR016C
 YJR043C YJR047C YJR064W YJR076C YJR094W-A YJR123W
 YJR144W YJR145C YKL006W YKL081W YKL113C YKL144C
 YKL156W YKL180W YKL181W YKR025W YKR026C YKR057W
 YKR059W YKR060W YKR081C YKR094C YLL008W YLL011W
 YLL045C YLR002C YLR029C YLR048W YLR056W YLR060W
 YLR061W YLR075W YLR130C YLR146C YLR150W YLR167W
 YLR172C YLR175W YLR185W YLR186W YLR192C YLR244C
 YLR249W YLR264W YLR276C YLR292C YLR293C YLR325C
 YLR333C YLR340W YLR344W YLR367W YLR388W YLR441C
 YLR448W YML008C YML024W YML026C YML063W YML073C
 YML093W YML094W YMR005W YMR038C YMR079W YMR108W
 YMR121C YMR142C YMR143W YMR146C YMR194W YMR202W
 YMR229C YMR230W YMR235C YMR239C YMR241W YMR242C
 YMR260C YMR308C YMR312W YNL002C YNL061W YNL062C

N	X	LOD	P ₋	P _{adj}	Gene-Ontology-ID	Gene-Ontology-Attribute
141	218	1.670	3.054e-128	<0.001	GO:0044445	cytosolic_part
144	252	1.536	8.028e-120	<0.001	GO:0005840	ribosome
130	232	1.491	1.618e-105	<0.001	GO:0003735	structural_constituent_of_ribosome
171	465	1.218	7.483e-104	<0.001	GO:0006412	translation
191	609	1.150	1.044e-103	<0.001	GO:0030529	ribonucleoprotein_complex
129	233	1.477	1.068e-103	<0.001	GO:0033279	ribosomal_subunit
201	792	1.033	7.780e-91	<0.001	GO:0043228	non-membrane-bounded_organelle
201	792	1.033	7.780e-91	<0.001	GO:0043232	intracellular_non-membrane-bounded_organelle
75	93	1.913	5.843e-78	<0.001	GO:0022625	cytosolic_large_ribosomal_subunit
133	361	1.149	6.362e-78	<0.001	GO:0005198	structural_molecule_activity
134	401	1.082	3.023e-72	<0.001	GO:0005622	intracellular
264	1823	0.8465	1.912e-68	<0.001	GO:0032991	macromolecular_complex
75	136	1.388	2.953e-58	<0.001	GO:0015934	large_ribosomal_subunit
54	64	1.988	5.706e-58	<0.001	GO:0022627	cytosolic_small_ribosomal_subunit
343	3581	1.032	4.047e-57	<0.001	GO:0044238	primary_metabolic_process
244	1913	0.6963	2.547e-48	<0.001	GO:0044249	cellular_biosynthetic_process
208	1470	0.6786	2.672e-45	<0.001	GO:0034645	cellular_macromolecule_biosynthetic_process
245	1996	0.6723	3.133e-45	<0.001	GO:0009058	biosynthetic_process
207	1460	0.6778	3.890e-45	<0.001	GO:0034961	cellular_biopolymer_biosynthetic_process
211	1564	0.6542	1.306e-42	<0.001	GO:0009059	macromolecule_biosynthetic_process
210	1553	0.6535	1.736e-42	<0.001	GO:0043284	biopolymer_biosynthetic_process
54	97	1.369	4.827e-42	<0.001	GO:0015935	small_ribosomal_subunit

Fig. 2. Most significant GO annotation table for bicluster 2.

YNL064C YNL067W YNL069C YNL075W YNL090W YNL096C
 YNL112W YNL113W YNL151C YNL153C YNL162W YNL163C
 YNL178W YNL209W YNL232W YNL247W YNL255C YNL292W
 YNL301C YNR038W YNR043W YNR053C YOL005C YOL039W
 YOL040C YOL061W YOL077C YOL097C YOL120C YOL121C
 YOL123W YOL127W YOL149W YOR056C YOR063W YOR095C
 YOR096W YOR133W YOR143C YOR145C YOR167C YOR168W
 YOR182C YOR210W YOR224C YOR234C YOR236W YOR243C
 YOR253W YOR260W YOR276W YOR293W YOR312C YOR369C
 YPL037C YPL038W YPL050C YPL079W YPL081W YPL086C
 YPL090C YPL094C YPL143W YPL178W YPL198W YPL212C
 YPL220W YPL231W YPL237W YPL266W YPL273W YPR010C
 YPR033C YPR041W YPR043W YPR051W YPR060C YPR074C
 YPR080W YPR102C YPR110C YPR132W YPR133C YPR137W
 YPR145W YPR163C YPR187W YPR190C)
 conditions 0 1 2 3 4 5 8 11 13 14 15 16 17 18 19 20 24 25 26 27 28
 29 30 31 32 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52
 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74
 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
 97 98 99 100 101 102 103 104 105 106 108 109 110 111 112 113
 114 115 116 117 119 120 121 122 123 124 125 126 127 129 130
 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145
 146 147 148 149 150 151 152 153 154 155 156 157 159 160 161
 162 163 164 166 169 170
 ASR 0.6665892562671608
 Bicluster 3
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 YBR121C YBR153W YBR159W YBR191W YBR247C YBR248C
 YCL037C YCL054W YCR024C-A YCR031C YCR034W YCR035C
 YCR053W YCR057C YCR065W YDL031W YDL051W YDL082W
 YDL111C YDL131W YDL148C YDL150W YDL153C YDL201W
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 YDR120C YDR165W YDR211W YDR212W YDR245W YDR279W
 YDR280W YDR297W YDR312W YDR321W YDR324C YDR341C
 YDR398W YDR440W YDR449C YDR465C YDR500C YDR531W

YEL026W YEL054C YER006W YER043C YER082C YER102W
 YER110C YER118C YER127W YER154W YFL002C YFL045C
 YFR001W YGL031C YGL078C YGL123W YGL135W YGL147C
 YGL148W YGL155W YGL171W YGR034W YGR074W YGR078C
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 YHL011C YHL015W YHR010W YHR021C YHR052W YHR062C
 YHR063C YHR065C YHR066W YHR088W YHR089C YHR148W
 YHR169W YHR170W YHR196W YHR208W YIL008W YIL083C
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 YJR145C YKL006W YKL078W YKL081W YKL099C YKL156W
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 YKR081C YKR092C YLL008W YLL011W YLL034C YLL036C
 YLL038C YLR002C YLR048W YLR061W YLR146C YLR185W
 YLR186W YLR212C YLR222C YLR244C YLR249W YLR293C
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 YMR054W YMR058W YMR061W YMR093W YMR146C YMR202W
 YMR211W YMR220W YMR239C YMR242C YMR270C YMR277W
 YMR305C YMR307W YNL002C YNL030W YNL048W YNL062C
 YNL075W YNL111C YNL112W YNL113W YNL124W YNL138W
 YNL142W YNL148C YNL162W YNL178W YNL209W YNL216W
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 YNL292W YNL299W YNL302C YNR038W YNR043W YNR053C
 YOL052C YOL061W YOL076W YOL077C YOL080C YOL094C
 YOL097C YOL115W YOL121C YOL139C YOR001W YOR039W
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 YOR243C YOR253W YOR276W YOR312C YOR369C YPL043W
 YPL079W YPL086C YPL093W YPL131W YPL198W YPL212C
 YPL220W YPL227C YPL266W YPL273W YPR010C YPR017C
 YPR033C YPR034W YPR043W YPR056W YPR060C YPR102C
 YPR110C YPR112C YPR120C YPR132W YPR144C YPR190C)
 conditions 1 2 3 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27
 28 29 30 31 33 34 35 36 37 38 41 42 43 44 45 47 48 49 50 51 52 53
 54 55 56 57 58 59 60 64 65 66 67 68 69 70 71 72 73 74 75 76 79 80
 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101
 102 103 104 105 107 108 109 110 111 112 113 114 115 116 117
 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132
 133 134 137 138 143 144 145 146 147 150 151 152 153 154 155
 156 157 158 159 160 162 163 164 165 166 172
 ASR 0.5802933324016625
 Bicluster 4
 (YBL038W YPL173W YBL045C YBL050W YBL056W YBL064C
 YBL078C YBL090W YBR001C YBR006W YBR026C YBR035C
 YBR039W YBR050C YBR103W YBR119W YBR123C YBR149W
 YBR173C YBR177C YBR183W YBR207W YBR234C YBR251W
 YBR256C YBR268W YBR282W YBR296C YBR297W YBR298C
 YBR299W YCL025C YCL033C YCL035C YCL040W YCL051W
 YCL067C YCR002C YCR003W YCR011C YCR024C YCR027C
 YCR036W YCR071C YCR075C YCR091W YDL007W YDL022W
 YDL045C YDL045W-A YDL069C YDL097C YDL119C YDL137W
 YDL142C YDL159W YDL161W YDL165W YDL198C YDL234C
 YDR001C YDR007W YDR018C YDR028C YDR035W YDR041W
 YDR058C YDR079W YDR085C YDR099W YDR113C YDR115W
 YDR116C YDR131C YDR171W YDR175C YDR201W YDR205W

N	X	LOD	P _{adj}	P _{adj}	Gene-Ontology-ID	Gene-Ontology-Attribute
97	403	1.021	3.246e-50	<0.001	GO:0034470	ncRNA processing
112	609	0.8970	3.749e-46	<0.001	GO:0030529	ribonucleoprotein complex
125	792	0.8405	8.323e-45	<0.001	GO:0043228	non-membrane-bounded organelle
125	792	0.8405	8.323e-45	<0.001	GO:0043232	intracellular non-membrane-bounded organelle
81	305	1.046	9.516e-45	<0.001	GO:0006364	rRNA processing
105	580	0.8717	3.932e-42	<0.001	GO:0006396	RNA processing
248	3581	0.9506	9.935e-39	<0.001	GO:0044238	primary metabolic process
50	119	1.293	3.698e-38	<0.001	GO:0030684	preribosome
142	1186	0.7235	2.349e-37	<0.001	GO:0016070	RNA metabolic process
114	773	0.7748	4.781e-37	<0.001	GO:0034660	ncRNA metabolic process
67	271	0.9752	1.825e-34	<0.001	GO:0005730	nucleolus
172	1823	0.6665	8.876e-34	<0.001	GO:0032991	macromolecular complex
94	587	0.7784	1.462e-32	<0.001	GO:0016072	rRNA metabolic process
87	550	0.7577	1.878e-29	<0.001	GO:0022613	ribonucleoprotein complex biogenesis
85	538	0.7532	1.146e-28	<0.001	GO:0042254	ribosome biogenesis
87	566	0.7417	1.693e-28	<0.001	GO:0044085	cellular component biogenesis
255	4321	0.9002	1.567e-26	<0.001	GO:0008152	metabolic process

Fig. 3. Most significant GO annotation table for bicluster 3.

YDR207C YDR231C YDR237W YDR259C YDR270W YDR272W
 YDR285W YDR296W YDR298C YDR313C YDR322W YDR337W
 YDR342C YDR343C YDR347W YDR375C YDR377W YDR380W
 YDR394W YDR405W YDR419W YDR421W YDR423C YDR427W
 YDR435C YDR453C YDR462W YDR463W YDR470C YDR473C
 YDR477W YDR489W YDR513W YEL037C YEL039C YEL050C
 YEL060C YER012W YER026C YER035W YER050C YER053C
 YER059W YER103W YER142C YER143W YER166W YFL014W
 YFL059W YFR003C YFR013W YFR014C YFR025C YFR040W
 YFR049W YFR053C YGL004C YGL006W YGL025C YGL037C
 YGL048C YGL049C YGL062W YGL073W YGL093W YGL121C
 YGL129C YGL143C YGL153W YGL156W YGL191W YGL244W
 YGL248W YGL251C YGR006W YGR010W YGR028W YGR048W
 YGR076C YGR080W YGR082W YGR084C YGR088W YGR101W
 YGR112W YGR181W YGR194C YGR220C YGR222W YGR244C
 YGR246C YGR253C YGR255C YGR256W YGR257C YHL002W
 YHL004W YHL024W YHL035C YHL036W YHL038C YHL040C
 YHR002W YHR005C-A YHR011W YHR018C YHR024C YHR028C
 YHR030C YHR038W YHR043C YHR051W YHR086W YHR090C
 YHR091C YHR104W YHR106W YHR138C YHR147C YHR160C
 YHR161C YHR175W YIL010W YIL034C YIL036W YIL050W
 YIL062C YIL088C YIL101C YIL107C YIL111W YIL113W
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 YJL153C YJL155C YJL164C YJL166W YJL203W YJR036C
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 YLR299W YLR312W-A YLR329W YLR369W YLR370C YLR382C
 YLR394W YLR395C YLR439W YML009C YML086C YML092C
 YML110C YML120C YML121W YMR021C YMR053C YMR060C
 YMR089C YMR105C YMR113W YMR139W YMR145C YMR150C

N	X	LOD	P _{adj}	P _{adj}	Gene-Ontology-ID	Gene-Ontology-Attribute
155	543	0.8612	8.999e-59	<0.001	GO:0044429	mitochondrial part
61	98	1.383	6.146e-46	<0.001	GO:0032543	mitochondrial translation
193	1084	0.6121	8.426e-40	<0.001	GO:0005739	mitochondrion
437	4639	0.9650	3.878e-39	<0.001	GO:0003674	molecular_function
78	213	0.9424	1.058e-36	<0.001	GO:0007005	mitochondrion organization
34	43	1.701	1.517e-31	<0.001	GO:0000315	organellar large ribosomal subunit
34	43	1.701	1.517e-31	<0.001	GO:0005762	mitochondrial large ribosomal subunit
454	5526	1.662	1.050e-25	<0.001	GO:0008150	biological_process
25	33	1.609	1.283e-22	<0.001	GO:0000314	organellar small ribosomal subunit
25	33	1.609	1.283e-22	<0.001	GO:0005763	mitochondrial small ribosomal subunit
299	2810	0.4045	4.714e-21	<0.001	GO:0044444	cytoplasmic part

Fig. 4. Most significant GO annotation table for bicluster 4.

YMR152W YMR158W YMR169C YMR170C YMR173W YMR188C YMR193W YMR197C YMR224C YMR250W YMR257C YMR267W YMR273C YMR304W YMR311C YMR314W YNL005C YNL006W YNL015W YNL073W YNL081C YNL083W YNL084C YNL097C YNL118C YNL121C YNL125C YNL130C YNL131W YNL137C YNL147W YNL177C YNL185C YNL214W YNL241C YNL252C YNL265C YNL284C YNL306W YNL330C YNR001C YNR023W YNR045W YOL016C YOL018C YOL023W YOL033W YOL065C YOL082W YOL096C YOL126C YOL133W YOL143C YOR035C YOR036W YOR039W YOR040W YOR045W YOR065W YOR069W YOR070C YOR075W YOR087W YOR089C YOR120W YOR124C YOR130C YOR134W YOR136W YOR150W YOR157C YOR158W YOR159C YOR185C YOR187W YOR201C YOR230W YOR249C YOR257W YOR259C YOR261C YOR316C YOR317W YOR323C YOR327C YOR329C YOR332W YOR347C YOR358W YOR367W YOR386W YPL013C YPL015C YPL059W YPL060W YPL078C YPL083C YPL087W YPL097W YPL104W YPL111W YPL118W YPL124W YPL147W YPL154C YPL172C YPL177C YPL203W YPL214C YPL219W YPL259C YPL262W YPL271W YPR020W YPR023C YPR036W YPR047W YPR081C YPR082C YPR100W YPR103W YPR108W YPR124W YPR140W YPR160W YPR166C YPR178W YPR182W YPR184W YPR191W YPR192W) conditions 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 47 48 49 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 81 83 84 85 86 87 88 89 90 91 95 96 97 98 99 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 ASR 0.3494580599594215

Bicluster 5

(YER056C YPR144C YER056C-A YER070W YER073W YER074W YER082C YER086W YER090W YER091C YER099C YER102W YER105C YER107C YER110C YER112W YER117W YER118C YER120W YER127W YER131W YER145C YER148W YER149C YER151C YER165W YER168C YER171W YFL001W YFL002C YFL022C YFL026W YFL028C YFL045C YFR001W YFR031C-A YFR055W YGL001C YGL008C YGL012W YGL014W YGL016W YGL021W YGL022W YGL026C YGL027C YGL028C YGL030W YGL031C YGL032C YGL067W YGL076C YGL077C YGL078C YGL092W YGL097W YGL099W YGL103W YGL112C YGL120C YGL123W YGL135W YGL144C YGL147C YGL148W YGL170C YGL171W YGL186C YGL202W YGL225W YGL246C

YGL256W YGL257C YGR014W YGR024C YGR027C YGR034W YGR054W YGR075C YGR078C YGR082W YGR083C YGR085C YGR090W YGR094W YGR095C YGR108W YGR109C YGR118W YGR120C YGR123C YGR124W YGR128C YGR147C YGR148C YGR152C YGR155W YGR158C YGR159C YGR162W YGR175C YGR177C YGR185C YGR191W YGR195W YGR200C YGR204W YGR208W YGR211W YGR214W YGR227W YGR240C YGR260W YGR264C YGR280C YHL001W YHL007C YHL011C YHL015W YHL033C YHR007C YHR010W YHR019C YHR021C YHR025W YHR026W YHR031C YHR042W YHR046C YHR052W YHR060W YHR061C YHR062C YHR064C YHR065C YHR066W YHR068W YHR069C YHR070W YHR072W YHR084W YHR088W YHR089C YHR141C YHR143W YHR143W-A YHR148W YHR169W YHR170W YHR187W YHR193C YHR196W YHR203C YHR206W YHR208W YIL003W YIL009W YIL014W YIL018W YIL020C YIL021W YIL030C YIL043C YIL044C YIL052C YIL053W YIL061C YIL078W YIL083C YIL085C YIL094C YIL115C YIL118W YIL128W YIL131C YIL133C YIL134W YIL142W YIL145C YIL147C YIL148W YIL150C YIL002C YJL008C YJL010C YJL011C YJL014W YJL025W YJL033W YJL050W YJL069C YJL080C YJL087C YJL109C YJL110C YJL111W YJL121C YJL125C YJL129C YJL134W YJL136C YJL138C YJL145W YJL148W YJL157C YJL158C YJL177W YJL178C YJL183W YJL186W YJL187C YJL189W YJL190C YJL191W YJL198W YJL208C YJR001W YJR007W YJR009C YJR016C YJR031C YJR047C YJR063W YJR064W YJR068W YJR075W YJR094W-A YJR123W YJR132W YJR139C YJR143C YJR145C YKL004W YKL006W YKL008C YKL029C YKL057C YKL060C YKL068W YKL078W YKL080W YKL081W YKL099C YKL104C YKL106W YKL113C YKL120W YKL125W YKL144C YKL156W YKL175W YKL180W YKL181W YKL184W YKL185W YKL205W YKL209C YKL211C YKL212W YKR024C YKR025W YKR026C YKR056W YKR057W YKR059W YKR060W YKR079C YKR081C YKR082W YKR092C YKR094C YKR099W YLL008W YLL011W YLL034C YLL043W YLL045C YLL048C YLR002C YLR008C YLR014C YLR015W YLR044C YLR048W YLR056W YLR060W YLR061W YLR075W YLR083C YLR088W YLR107W YLR129W YLR130C YLR134W YLR146C YLR150W YLR167W YLR172C YLR175W YLR180W YLR185W YLR186W YLR188W YLR192C YLR195C YLR210W YLR214W YLR222C YLR229C YLR237W YLR244C YLR249W YLR256W YLR264W YLR276C YLR285W YLR286C YLR291C YLR293C YLR300W YLR325C YLR333C YLR340W YLR342W YLR344W YLR354C YLR355C YLR367W YLR372W YLR378C YLR388W YLR389C YLR409C YLR433C YLR448W YLR451W YLR452C YLR459W YML015C YML019W YML024W YML038C YML043C YML046W YML060W YML063W YML073C YML093W YML094W YML097C YML113W YML123C YML126C YMR005W YMR006C YMR013C YMR079W YMR080C YMR083W YMR093W YMR108W YMR125W YMR128W YMR146C YMR149W YMR194W YMR199W YMR202W YMR205C YMR208W YMR211W YMR223W YMR229C YMR230W YMR235C YMR239C YMR241W YMR242C YMR243C YMR246W YMR268C YMR274C YMR288W YMR296C YMR301C YMR303C YMR305C YMR307W YMR308C YMR309C YMR312W YMR319C YNL002C YNL021W YNL061W YNL062C YNL065W YNL066W YNL067W YNL068C YNL069C YNL075W YNL096C YNL101W YNL111C YNL112W YNL113W YNL124W YNL145W YNL151C YNL153C YNL162W YNL163C YNL178W YNL186W YNL188W YNL189W YNL209W YNL232W YNL244C YNL247W YNL248C YNL251C

N	X	LOD	P _{adj}	P _{adj}	Gene-Ontology-ID	Gene-Ontology-Attribute	YOR143C YOR145C YOR167C YOR168W YOR184W YOR202W
171	550	0.7887	5.325e-56	<0.001	GO:0022613	ribonucleoprotein complex biogenesis	YOR204W YOR207C YOR210W YOR224C YOR234C YOR236W
169	538	0.7939	5.334e-56	<0.001	GO:0042254	ribosome biogenesis	YOR243C YOR253W YOR254C YOR260W YOR270C YOR274W
171	566	0.7695	5.990e-54	<0.001	GO:0044085	cellular component biogenesis	YOR276W YOR297C YOR306C YOR308C YOR312C YOR320C
546	4639	1.073	3.323e-53	<0.001	GO:0003674	molecular_function	YOR334W YOR335C YOR340C YOR344C YOR360C YOR361C
483	3581	0.7028	3.818e-53	<0.001	GO:0044238	primary metabolic process	YOR369C YOR370C YPL028W YPL036W YPL037C YPL038W
102	218	1.029	3.279e-51	<0.001	GO:0044445	cytosolic part	YPL043W YPL050C YPL079W YPL081W YPL086C YPL090C
169	609	0.7117	2.054e-47	<0.001	GO:0030529	ribonucleoprotein complex	YPL093W YPL094C YPL101W YPL117C YPL126W YPL143W
193	773	0.6649	3.085e-47	<0.001	GO:0034660	ncRNA metabolic process	YPL157W YPL160W YPL178W YPL198W YPL212C YPL220W
163	587	0.7069	1.438e-45	<0.001	GO:0016072	rRNA metabolic process	YPL227C YPL231W YPL237W YPL244C YPL252C YPL254W
100	252	0.8986	3.828e-42	<0.001	GO:0005840	ribosome	YPL256C YPL266W YPL273W YPR009W YPR010C YPR033C
234	1186	0.5516	1.580e-39	<0.001	GO:0016070	RNA metabolic process	YPR035W YPR041W YPR043W YPR058W YPR060C YPR074C
133	465	0.7011	5.248e-38	<0.001	GO:0006412	translation	YPR080W YPR102C YPR110C YPR112C YPR113W YPR120C
120	403	0.7169	5.542e-36	<0.001	GO:0034470	ncRNA processing	YPR137W YPR145W YPR159W YPR163C YPR181C YPR186C
88	232	0.8563	3.695e-35	<0.001	GO:0003735	structural constituent of ribosome	YPR187W YPR190C YPR198W)
88	233	0.8532	5.478e-35	<0.001	GO:0033279	ribosomal subunit	conditions 0 1 2 3 4 6 7 8 9 10 14 15 16 17 18 19 20 21 22 23 25 26

Fig. 5. Most significant GO annotation table for bicluster 5.

YNL255C YNL256W YNL261W YNL268W YNL280C YNL282W
 YNL291C YNL292W YNL299W YNL301C YNL307C YNL327W
 YNR003C YNR013C YNR038W YNR043W YNR044W YNR053C
 YOL021C YOL039W YOL041C YOL061W YOL076W YOL077C
 YOL080C YOL094C YOL103W YOL104C YOL120C YOL121C
 YOL128C YOL130W YOL136C YOL139C YOL140W YOL142W
 YOL146W YOL149W YOR001W YOR047C YOR056C YOR061W
 YOR067C YOR078W YOR079C YOR085W YOR095C YOR096W
 YOR099W YOR101W YOR103C YOR108W YOR116C YOR133W

27 28 29 30 31 32 33 34 35 37 38 40 41 43 44 45 46 47 48 49 50 51
 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73
 74 75 76 77 78 79 80 81 82 83 84 85 86 90 91 92 93 94 96 97 98
 99 100 101 102 105 106 107 108 109 110 111 112 113 114 115 116
 117 119 120 121 122 123 124 128 129 131 132 133 134 135 137
 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152
 153 154 155 158 159 160 161 162 163 164 165 166 167 168 169
 171 172
 ASR 0.4806911793882162