## **Module-trait relationships**

MEdarkgrey							
Medarkgrey (0.2) (0.4) (0.02) (0.5) (0.0) (0.0)  Medarkurquoise (0.2) (0.07) (0.04) (0.00) (0.0) (0.0)  Megreen (0.2) (0.07) (0.04) (0.00) (0.0)  Megreen (0.0) (0.0) (0.0) (0.0)  Megreen (0.0) (0.0) (0.0) (0.0)  Megreen (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.0) (0.0) (0.0)  Mesalmon (0.0) (0.0) (0.0) (0.0)  Mesalmon (0.0) (0.0) (0.0) (0.0)  Mesalmon (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)  Meturquoise (0.0) (0.	MEgreenyellow	0.29 (0.03)	-0.049 (0.7)	-0.24 (0.08)	-0.091 (0.5)	0.13 (0.3)	
Metalkgreen         (0.07)         (0.04)         (0.08)         (0.9)         (0.9)         (0.9)           Medarkturquoise         0.16         -0.06         -0.049         -0.027         -0.071         (0.8)         (0.6)           Megreen         (0.1)         (1)         (0.33)         (0.5)         (0.05)         (0.05)         (0.05)         (0.05)         (0.05)         (0.05)         (0.05)         (0.05)         (0.05)         (0.07)         (0.08         (0.09)         (0.09)         (0.06)         (0.01)         (0.02)         (0.6)         (0.01)         (0.00)         (0.01)         (0.00)         (0.01)         (0.00)         (0.01)         (0.00)         (0.01)         (0.00)         (0.01)         (0.00)         (0.01)         (0.00)	MEdarkgrey						1
MEgreen         (0.2)         (0.7)         (0.7)         (0.8)         (0.6)           MEgreen         (0.2)         -0.0052         0.28         -0.085         -0.064         (0.5)         (0.7)         (0.08         (0.09)         (0.5)         (0.7)         (0.08         (0.03)         (0.2)         (0.9)         (0.02         (0.9)	MEdarkgreen						
MEgreen (0.1) (1) (1) (0.3) (0.9) (0.5) (0	MEdarkturquoise						
MEturquoise         (0.85) (0.8)         (0.01) (0.68)         (0.01) (0.02)         (0.02) (0.8)         (0.07) (0.8)         (0.01) (0.02)         (0.02) (0.08)         (0.02) (0.08)         (0.02) (0.03)         (0.02) (0.03)         (0.02) (0.03)         (0.02) (0.03)         (0.02) (0.03)         (0.03) (0.03)	MEgreen						
MEsalmon (-6.6) (-6.1) (-5.5) (-0.7) (-0.8)  MEgrey60 (-6.6) (-0.1) (-5.5) (-0.7) (-0.8)  MEgrey60 (-6.6) (-0.8) (-0.8) (-0.8) (-0.3) (-0.2) (-0.9)  MElightgreen (-0.27 (-0.24) (-0.24) (-0.25) (-0.14) (-0.25)  MElyllow (-0.5) (-0.07) (-0.3) (-0.3) (-0.5) (-0.3)  MEpurple (-0.15 (-0.22) (-0.3) (-0.00) (-0.00)  MElightcyan (-0.21 (-0.23) (-0.00) (-0.00) (-0.00) (-0.00)  MElightcyan (-0.15 (-0.22) (-0.3) (-0.00) (-0.00)  MElightcyan (-0.21 (-0.3) (-0.1) (-0.00) (-0.00) (-0.00) (-0.00)  MElightcyan (-0.3) (-0.1) (-0.00) (-0.00) (-0.00) (-0.00)  MElightcyan (-0.27 (-0.3) (-0.3) (-0.2) (-0.1) (-0.1)  MEyellow (-0.5) (-0.3) (-0.0) (-0.00) (-0.00) (-0.0)  MEtan (-0.27 (-0.3) (-0.2) (-0.2) (-0.0)  MEorange (-0.04) (-0.02) (-0.00) (-0.00) (-0.0)  MEmagenta (-0.02) (-0.00) (-0.00) (-0.00) (-0.0)  MEmagenta (-0.02) (-0.00) (-0.00) (-0.00) (-0.0)  MEmagenta (-0.02) (-0.00) (-0.00) (-0.00) (-0.0)  MEdarkred (-0.02) (-0.00) (-0.00) (-0.00) (-0.00) (-0.0)  MEdarkred (-0.02) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00)  MEdarkred (-0.02) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00)  MEmidnightblue (-0.1) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00)  MEmidnightblue (-0.15 (-0.00) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00) (-0.00)  MEmidnightblue (-0.00)	MEturquoise	0.087	0.33	-0.31	0.074	-0.014	
MEgrey60         -0.077 (0.6) (0.08) (0.09) (0.03) (0.2) (0.2) (0.3)           MElightgreen (0.07)	MEsalmon	-0.079	-0.21	0.1	-0.047	0.24	
MElightgreen (0.07) (0.31 (0.03) (0.05) (0.0	MEgrey60	-0.077	-0.24	0.29	-0.16	0.023	
MEroyalblue (0.9) (0.002) (4e-04) (0.02) (0.02) (0.09) (0.002) (4e-04) (0.02) (0.09) (0.09) (0.002) (0.002) (0.002) (0.003) (0.006) (0.3) (0.5) (0.5) (0.5) (0.003) (0.006) (0.3) (0.5) (0.5) (0.5) (0.003) (0.006) (0.3) (0.009) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.002) (	MElightgreen	0.24	-0.14	-0.15	-0.082	0.14	0.5
MEcyan  (0.1) (0.08) (0.086) (0.086) (0.3) (0.5)  MEpurple  (0.3) (0.1) (0.08) (0.086) (0.3) (0.5)  MEpurple  (0.3) (0.1) (0.003) (0.003) (0.09) (0.9)  MElightcyan  (0.2) (0.04) (0.002) (0.3) (1)  MEyellow  (0.5) (0.3) (0.03) (0.02) (0.1) (0.3)  MEtan  (0.05) (0.03) (0.02) (0.1) (0.3)  MEtan  (0.00) (0.002) (0.002) (0.002) (0.1) (0.3)  MEorange  (0.04) (0.002) (0.002) (0.002) (0.003)  MEbrown  (0.04) (0.002) (0.002) (0.002) (0.003)  MEmagenta  (0.04) (0.001) (0.001) (0.001)  MEmagenta  (0.07) (0.09) (0.002) (0.001) (0.01) (0.7)  MEdarkred  (0.09) (0.002) (0.009) (0.002) (0.001) (0.003)  MEdarkred  (0.09) (0.003) (0.001) (0.001) (0.001)  MEdarkred  (0.09) (0.003) (0.001) (0.001) (0.001)  MEmidnightblue  (0.05) (0.03) (0.04) (0.02) (0.002) (0.003)  MEmidnightblue  (0.05) (0.03) (0.04) (0.02) (0.003) (0.001) (0.01)  MEmidnightblue  (0.05) (0.03) (0.04) (0.02) (0.003) (0.001) (0.001)  MEpink  (0.003) (0.4) (0.02) (0.002) (0.003) (0.001)  MEpink  (0.067 (0.39) (-0.39) (-0.36) (0.002) (0.9) (0.4)  MEpink  (0.067 (0.39) (-0.39) (-0.36) (0.002) (0.9) (0.9)  MEpink  (0.067 (0.39) (0.003) (0.007) (0.9) (0.4)  MEpink  (0.05) (0.003) (0.003) (0.007) (0.9) (0.5)  (0.003) (0.003) (0.007) (0.9) (0.5)  (0.003) (0.003) (0.007) (0.9) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.003) (0.007) (0.003) (0.007)  (0.003) (0.003) (0.003) (0.003) (0.007)  (0.	MEroyalblue	-0.011	-0.41	0.45	-0.32	-0.013	
MEpurple (0.3) (0.1) (0.003) (0.09) (0.9)  MElightcyan (0.2) (0.04) (0.002) (0.3) (0.09) (0.9)  MEyellow (0.5) (0.03) (0.03) (0.02) (0.1) (0.3)  MEtan (0.02) (0.02) (0.03) (0.02) (0.1) (0.3)  MEorange (0.04) (0.02) (0.02) (0.1) (0.3)  MEorange (0.04) (0.02) (0.02) (0.1) (0.3)  MEbrown (0.00) (0.001) (0.001) (0.001) (0.01)  MEmagenta (0.07) (0.09) (0.09) (0.09) (0.01) (0.01)  MEdarkred (0.07) (0.09) (0.09) (0.002) (0.001) (0.01)  MEdarkred (0.9) (0.001) (0.001) (0.001)  MEdarkred (0.09) (0.001) (0.001) (0.001) (0.01)  MEdarkred (0.09) (0.001) (0.001) (0.001) (0.001)  MEdindinghtblue (0.5) (0.3) (0.5) (0.02) (7e-07) (0.8)  MEmidnightblue (0.5) (0.3) (0.4) (0.02) (0.001) (0.001)  MEwhite (0.03) (0.4) (0.02) (1) (0.001) (0.01)  MEpink (0.05) (0.03) (0.4) (0.002) (0.9) (0.01)  MEpink (0.06) (0.003) (0.4) (0.002) (0.9) (0.01)  MElightyellow (0.3) (0.2) (0.001) (0.001) (0.001) (0.001)  MElightyellow (0.3) (0.2) (0.001) (0.001) (0.001) (0.001)  MEpink (0.06) (0.003) (0.02) (0.001) (0.001) (0.001)  MEpink (0.06) (0.003) (0.001) (0.001) (0.001) (0.001)  MEpink (0.06) (0.003) (0.001) (0.001) (0.001) (0.001) (0.001)  MEpink (0.06) (0.003) (0.001) (0.00	MEcyan	-0.21	-0.23	0.36	-0.14	0.085	
MElightcyan  -0.18 (0.2) (0.2) (0.04) (0.002) (0.03) (0.02) (0.1) (0.03)  MEtan (0.02) (0.03) (0.02) (0.02) (0.03) (0.02) (0.01) (0.03)  MEorange (0.04) (0.002) (0.04) (0.002) (0.04) (0.001)	MEpurple		-0.22	0.39	-0.23	0.0087	
MEyellow  (0.5) (0.5) (0.03) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.02) (0.03)  MEorange (0.04) (0.09) (0.001	MElightcyan			0.4	-0.14		
MEtan	MEyellow			0.3	-0.21	0.14	
MEorange	MEtan	-0.3		0.47		0.14	-0
MEbrown    0.43	MEorange			0.56		-0.03	
MEmagenta         -0.25 (0.07) (0.09)         0.45 (6e-04) (0.1)         -0.21 (0.07)         0.056 (0.7)           MEdarkred         0.022 (0.9) (0.9)         0.67 (2e-08)         -0.53 (3e-05) (0.4)         0.063 (0.6)         0.063 (0.6)           MEdarkorange         -0.13 (0.3) (0.5) (0.02)         0.74 (0.8)         0.035 (0.8)         0.035 (0.8)         0.035 (0.8)         0.0048 (0.8)         0.0048 (0.8)         0.0048 (0.8)         0.0048 (0.8)         0.0048 (0.8)         0.0048 (0.8)         0.0044 (0.8)         0.0044 (0.8)         0.0044 (0.8)         0.0044 (0.8)         0.0041 (0.8)	MEbrown	-0.43					
MEdarkred  0.022 (0.9) (2e-08) (3e-05) (0.4) (0.6)  MEdarkorange  0.031 (0.5) (0.02) (7e-07) (0.8)  MEmidnightblue  0.092 (0.5) (0.3) (0.5) (0.02) (7e-07) (0.8)  MEmidnightblue  0.092 (0.5) (0.3) (2e-06) (5e-11) (1)  MEwhite  0.29 (0.03) (0.4) (0.2) (1) (0.8)  MEblue  0.18 (0.2) (0.4) (0.002) (0.9) (0.01)  MEpink  0.067 (0.39 (0.003) (0.007) (0.9) (0.01)  MElightyellow  0.13 (0.2) (1) (0.8) (0.8)  MElightyellow  MElightyellow  0.13 (0.2) (1) (0.8) (0.8)  MElightyellow  MElightyellow  MElightyellow  0.34 (0.2) (0.9) (0.05) (0.5)  MEred  0.34 (0.01) (0.4) (0.1) (0.8) (0.5)  MEred  0.34 (0.01) (0.4) (0.1) (0.3) (0.5)  MEred  0.34 (0.01) (0.4) (0.1) (0.3) (0.4)  MEgrey  0.31 (0.03) (0.09) (0.33) (8e-07) (0.4)	MEmagenta	-0.25	-0.23			0.056	
MEdarkorange	MEdarkred	0.022		-0.53	0.11	0.063	
MEmidnightblue         0.092 (0.5)         0.14 (0.3)         -0.59 (2e-06)         0.74 (5e-11)         0.0048 (1)           MEwhite         0.29 (0.03)         -0.13 (0.4)         -0.19 (0.2)         -0.0054 (1)         0.041 (0.8)           MEblue         0.18 (0.2) (0.4)         0.1 (0.002)         0.24 (0.4)         0.024 (0.01)         0.34 (0.01)           MEpink         0.067 (0.6) (0.003)         0.39 (0.007)         -0.36 (0.09)         0.01 (0.4)           MElightyellow         0.13 (0.3) (0.2) (0.2) (1) (0.8) (0.8)         0.027 (0.8)           MEblack         0.52 (5e-05) (0.9) (0.9) (2e-07) (0.05) (0.5)         0.093 (0.5)           MEred         0.34 (0.01) (0.4) (0.4) (0.1) (0.1) (0.3) (0.4)         0.12 (0.01) (0.4) (0.1) (0.1) (0.3) (0.4)           MEgrey         0.014 (0.3) (0.09) (0.09) (0.03) (0.3) (0.4)         0.011 (0.4) (0.4) (0.4)	MEdarkorange		0.098	-0.31	0.61	0.035	
MEwhite	MEmidnightblue	0.092	0.14	-0.59	0.74		-0.5
MEblue 0.18 (0.2) (0.4) (0.002) (0.9) (0.9) (0.01)  MEpink (0.6) (0.6) (0.003) (0.007) (0.9) (0.4)  MElightyellow (0.3) (0.2) (1) (0.8) (0.8)  MEblack (0.52 (5e-05) (0.9) (0.9) (0.9) (0.5)  MEred (0.01) (0.4) (0.4) (0.1) (0.3) (0.4)  MEgrey (0.3) (0.09) (0.3) (0.09) (0.3) (0.01) (0.01)  MEgrey (0.3) (0.09) (0.03) (0.01) (0.01) (0.01) (0.01)  MEgrey (0.01) (	MEwhite		-0.13	-0.19 (0.2)		0.041	
MEpink  MEpink  MElightyellow  MElig	MEblue		0.1	-0.41	0.024	0.34	
MElightyellow  O.13 (O.3)  MEblack  MEred  MEgrey  O.14 (O.01)  O.152 (O.9)  O.102 (O.9)  O.102 (O.9)  O.102 (O.9)  O.102 (O.1)  O.102 (O.1)  O.104 (O.1)  O.104 (O.1)  O.104 (O.1)  O.105 (O.1)  O.107 (O.1) (O.1) (O.1) (O.1) (O.3) (O.4)  O.11 (O.4)  O.11 (O.4) (O.6)  O.11 (O.6) (O.6	MEpink	0.067	0.39	-0.36	0.0096	0.1	
MEblack  0.52 (5e-05) (0.9) (0.9) (0.9) (0.05) (0.05) (0.05) (0.05) (0.05) (0.05) (0.05) (0.05) (0.07) (0.08)  MEred  0.12 (0.01) (0.04) (0.01) (0.01) (0.03) (0.04)  MEgrey  0.01 (0.09)	MElightyellow	0.13	-0.17	-0.0019	-0.031	0.027	
MEred 0.34 (0.01) (0.4) (0.1) (0.1) (0.3) (0.4) (0.4) (0.1) (0.3) (0.4) (0.4) (0.3) (0.4) (0.4) (0.3) (0.4) (0.3) (0.4) (0.4) (0.3) (0.4) (0.4) (0.3) (0.4)	MEblack	0.52	-0.02	-0.63	0.26	0.093	
MEgrey -0.14 -0.23 -0.14 0.61 0.11 (0.3) (0.09) (0.3) (8e-07) (0.4)	MEred	0.34	-0.12	-0.2		0.12	-1
2 2 6 4 6	MEgrey	(0.3)	-0.23 (0.09)	(0.3)	(8e-07)	0.11 (0.4)	
		Basal	m	Luninal	ant	JUKLOM.	
			Jane	, d	n-mi	n.	
Basal Claudin John Luminal Monthalighant Junkrown				40	,		