Fluorescence analysis report

25 august, 2022

Summary

The dataset contains *92* samples.

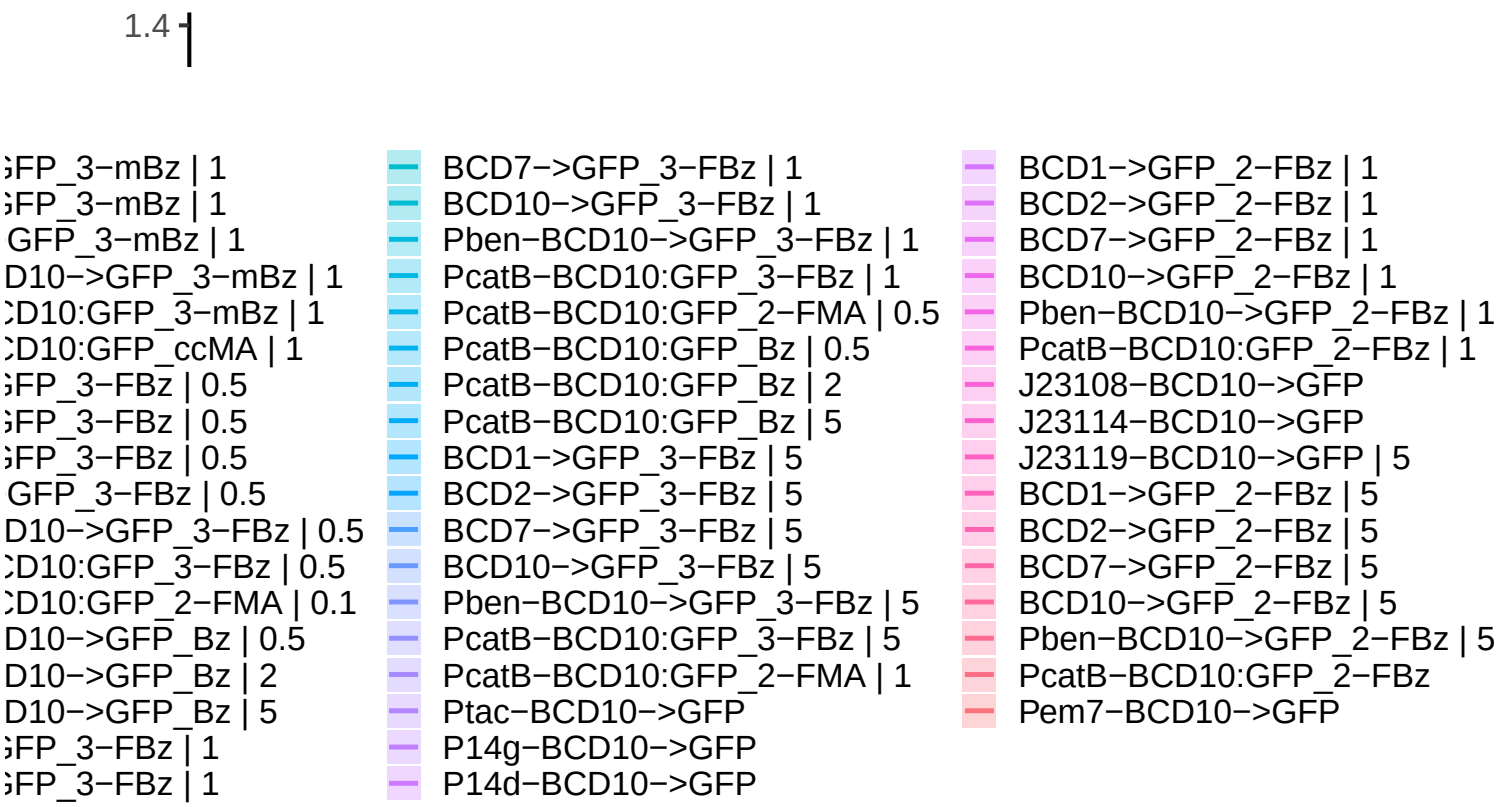
46 conditions were identified:
(Thr45)-BCD10->GFP_2-FBz, (Thr45)-BCD10->GFP_3-FBz, (Thr45)-BCD10->GFP_3-mBz, (Thr45)-BCD10->GFP_Bz, (Thr45)-BCD10->GFP_unind., (Val288)-BCD10->GFP_2-FBz, (Val288)-BCD10->GFP_3-FBz, (Val288)-BCD10->GFP_3-mBz, (Val288)-BCD10->GFP_Bz, (Val288)-BCD10->GFP_unind., BCD1->GFP_2-FBz, BCD1->GFP_3-FBz, BCD1->GFP_3-mBz, BCD1->GFP_unind., BCD10->GFP_2-FBz, BCD10->GFP_3-FBz, BCD10->GFP_3-mBz, BCD10->GFP_Bz, BCD10->GFP_unind., BCD2->GFP_2-FBz, BCD2->GFP_3-FBz, BCD2->GFP_3-mBz, BCD2->GFP_unind., BCD7->GFP_2-FBz, BCD7->GFP_3-FBz, BCD7->GFP_3-mBz, BCD7->GFP_unind., J23108-BCD10->GFP, J23114-BCD10->GFP, J23119-BCD10->GFP, P14d-BCD10->GFP, P14g-BCD10->GFP, Pben-BCD10->GFP_2-FBz, Pben-BCD10->GFP_3-FBz, Pben-BCD10->GFP_3-mBz, Pben-BCD10->GFP_Bz, Pben-BCD10->GFP_unind., PcatB-BCD10:GFP_2-FBz, PcatB-BCD10:GFP_2-FMA, PcatB-BCD10:GFP_3-FBz, PcatB-BCD10:GFP_3-mBz, PcatB-BCD10:GFP_Bz, PcatB-BCD10:GFP_ccMA, PcatB-BCD10:GFP_unind., Pem7-BCD10->GFP, Ptac-BCD10->GFP

6 different concentrations were identified:
0, 0.1, 0.5, 1, 2, 5

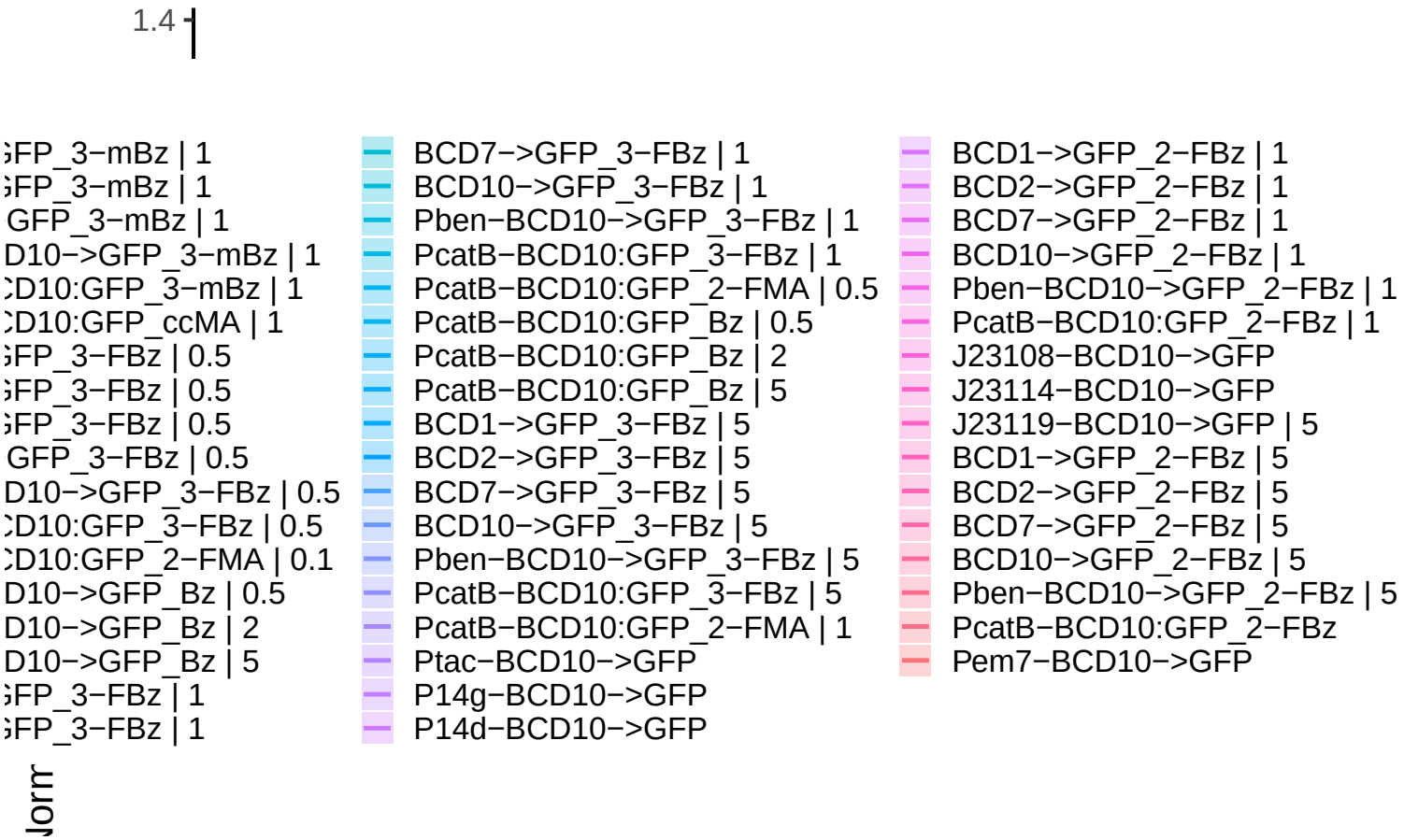
The following parameters were used to fit the data:

- minimum density considered: 0
- minimum time considered for linear and spline fits (t0): 4
- data type used as independent variable: time
- normalized fluorescence used for fits: TRUE
- log-transform density values for spline fits: FALSE
- log-transform density values for linear fits: FALSE
- log-transform time values for spline fits: FALSE
- log-transform time values for linear fits:
- perform dose-response analysis: TRUE
- method used for dose-response analysis: TRUE
- parameter used for dose-response analysis: model
- growth threshold: 1.5 * start_density
- sliding window size in linear regression: 8
- R2 threshold for linear regression: 0.9
- RSD threshold for linear regression: 0.15
- Relative ΔY threshold for linear regression: 0.05

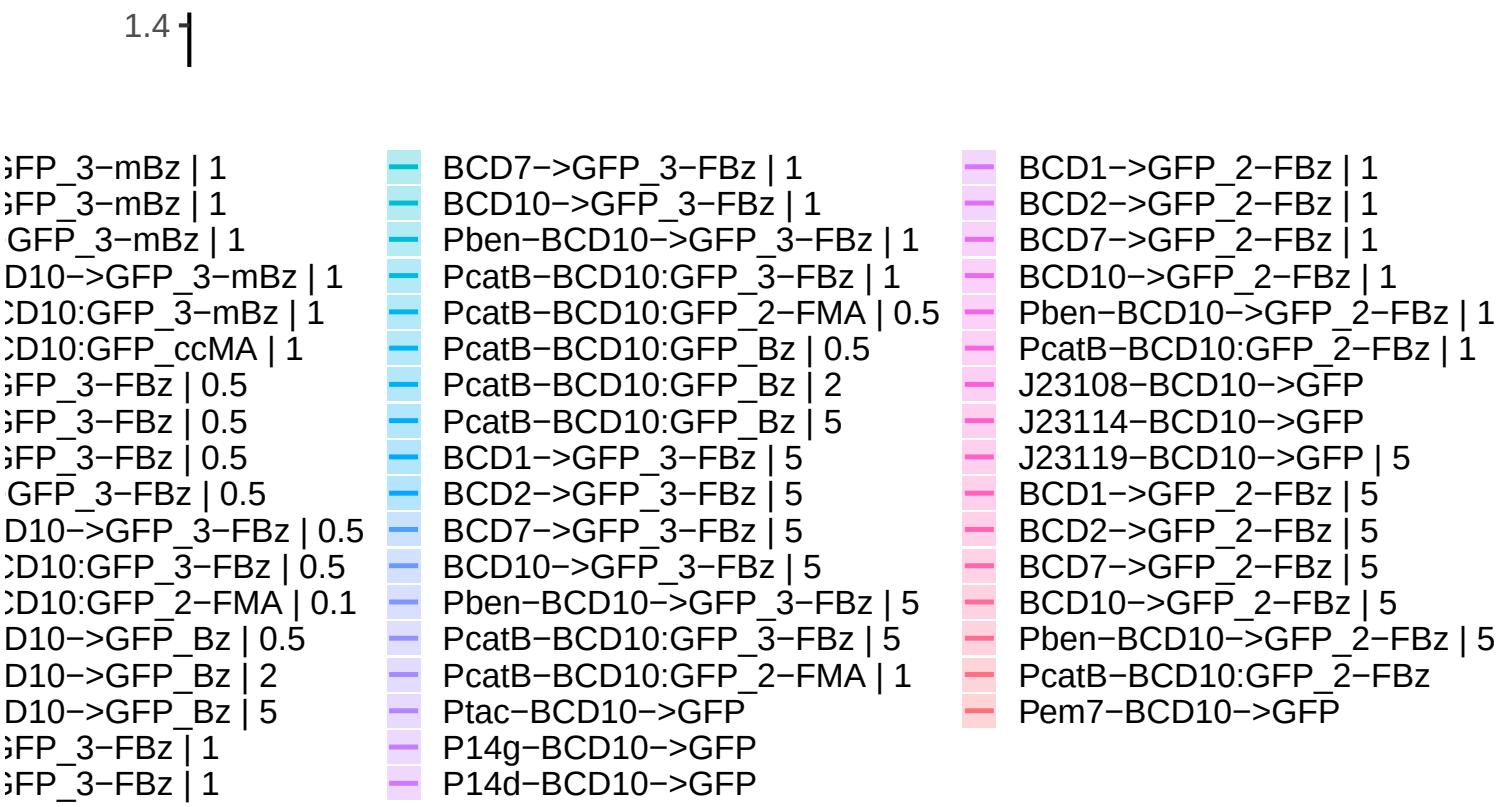
Graphical overview - Fluorescence 1



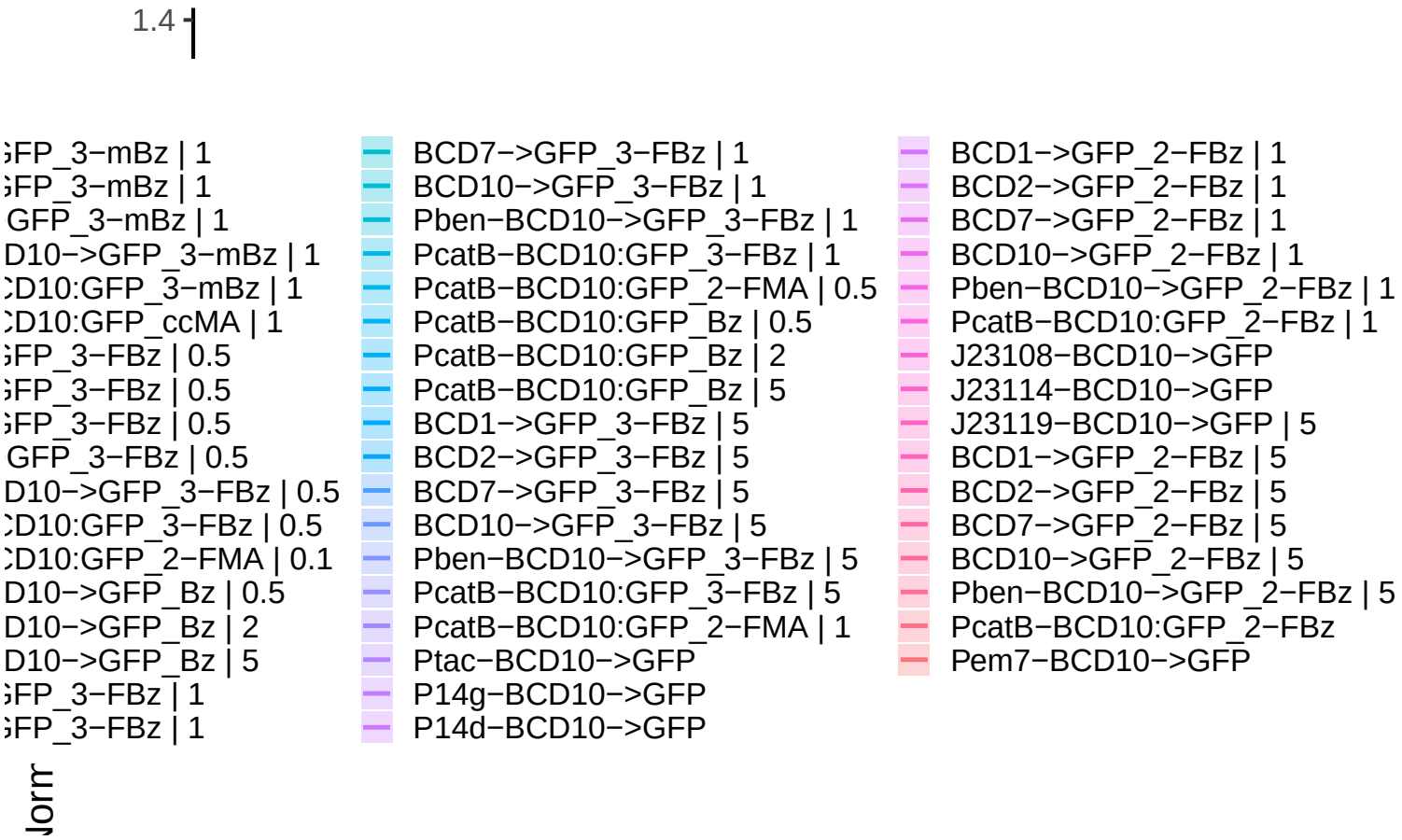
Graphical overview - Normalized fluorescence 1



Graphical overview - Fluorescence 2



Graphical overview - Normalized fluorescence 2



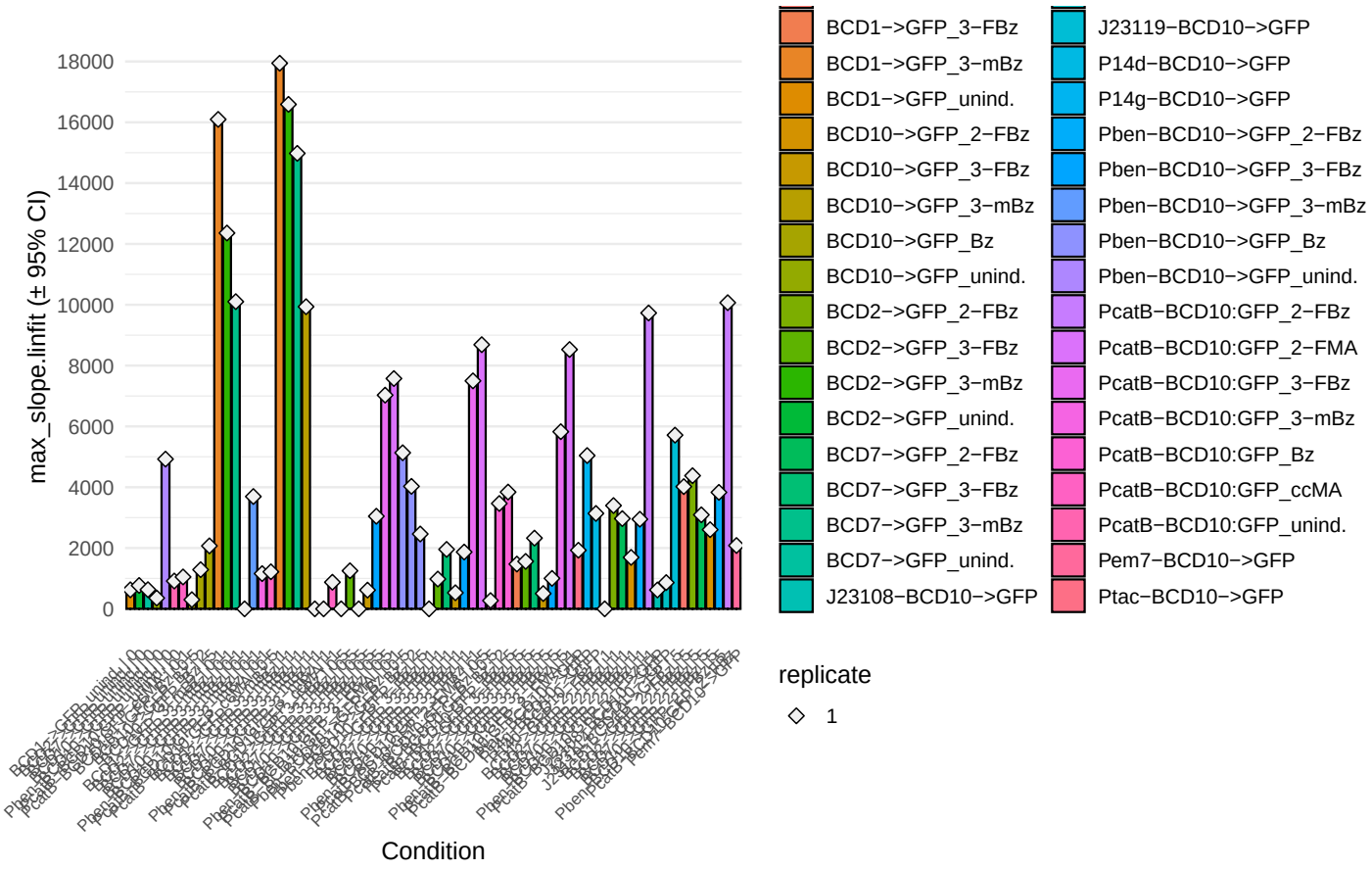
Fluorescence 1 fit results

Table 1: Linear Fit

Sample|Replicate|Conc.	μ_{max}	λ	Δy	y_{max}	t_{start} (μ_{max})	t_{end} (μ_{max})	R^2 (linear fit)
BCD1->GFP_unind.|1|0	626.542	10.55	5108.133	5693.848	13.96	17.29	0.997
BCD2->GFP_unind.|1|0	768.906	9.07	5817.499	6649.358	9.62	12.29	0.993
BCD7->GFP_unind.|1|0	630.806	7.99	5211.620	5676.326	8.62	11.29	0.993
BCD10->GFP_unind.|1|0	356.331	8.07	2909.632	3375.281	8.96	11.96	0.994
(Thr45)-BCD10->GFP_unind.|1|0	1517.426	9.71	10608.132	11234.086	10.96	13.96	0.992
(Val288)-BCD10->GFP_unind.|1|0	29.883	11.76	126.279	626.279	12.96	15.62	0.935
Pben-BCD10->GFP_unind.|1|0	4924.401	8.55	33471.624	40745.061	9.29	13.96	0.999
PcatB-BCD10:GFP_unind.|1|0	915.642	8.37	6348.179	7246.617	7.29	9.96	0.963
PcatB-BCD10:GFP_ccMA|1|0.1	1048.97	8.22	7177.165	8265.165	7.29	9.96	0.992
BCD10->GFP_Bz|1|0.5	301.592	14.51	1940.988	2544.041	10.62	13.96	0.998
BCD10->GFP_Bz|1|2	1288.143	4.25	4089.967	4771.001	4.29	6.62	0.989
BCD10->GFP_Bz|1|5	2071.11	4.33	9414.474	9940.337	4.29	6.96	0.995
BCD1->GFP_3-mBz|1|0.1	16095.139	4.78	49931.581	50652.893	4.96	7.62	0.987
BCD2->GFP_3-mBz|1|0.1	12358.348	4.47	42694.646	43317.597	4.62	7.29	0.996
BCD7->GFP_3-mBz|1|0.1	10102.051	4.37	30801.273	31278.884	4.29	6.62	0.995
BCD10->GFP_3-mBz|1|0.1							
(Thr45)-BCD10->GFP_3-mBz|1|0.1	8038.124	4.30	24680.835	25456.835	4.29	6.62	0.989
(Val288)-BCD10->GFP_3-mBz|1|0.1	22.609	23.29	114.661	677.686	14.29	16.96	0.921
Pben-BCD10->GFP_3-mBz|1|0.1	3694.087	12.23	21545.864	28560.790	10.29	14.96	1.000
PcatB-BCD10:GFP_3-mBz|1|0.1	1158.788	13.65	5731.587	6669.640	12.62	15.29	0.988
PcatB-BCD10:GFP_ccMA|1|0.5	1218.758	9.19	7449.618	8371.493	8.62	11.29	0.966
(Thr45)-BCD10->GFP_Bz|1|0.5	991.982	12.20	5032.045	5731.160	10.96	14.29	0.999
(Thr45)-BCD10->GFP_Bz|1|2	2923.015	4.35	10138.197	10612.335	4.29	7.29	0.996
(Thr45)-BCD10->GFP_Bz|1|2	3513.851	4.81	18719.348	19415.000	4.96	7.96	0.996
BCD1->GFP_3-mBz|1|1	17942.624	4.47	86454.373	87247.851	4.62	7.62	0.998
BCD2->GFP_3-mBz|1|1	16589.719	5.91	92683.315	93441.935	7.62	10.62	0.996
BCD7->GFP_3-mBz|1|1	14978.288	5.19	71374.121	71910.121	5.96	8.62	0.996
BCD10->GFP_3-mBz|1|1	9936.05	5.03	50116.137	50467.282	5.96	8.62	0.997
(Thr45)-BCD10->GFP_3-mBz|1|1	10371.534	5.64	64065.662	64659.412	7.29	10.29	0.997
(Val288)-BCD10->GFP_3-mBz|1|1	172.912	4.32	516.929	869.388	4.29	6.96	0.980
Pben-BCD10->GFP_3-mBz|1|1							
PcatB-BCD10:GFP_3-mBz|1|1							
PcatB-BCD10:GFP_ccMA|1|1	875.246	8.67	9274.149	10006.908	7.96	10.62	0.976
(Val288)-BCD10->GFP_Bz|1|0.5	25.758	18.52	280.325	866.864	12.29	14.96	0.950
(Val288)-BCD10->GFP_Bz|1|2	415.773	4.29	1182.519	1737.064	4.29	7.29	0.996
(Val288)-BCD10->GFP_Bz|1|5	494.688	5.22	1947.289	2591.520	4.96	8.62	0.998
BCD1->GFP_3-FBz|1|0.5							
BCD2->GFP_3-FBz|1|0.5	1251.778	4.28	6876.274	7433.526	4.29	6.62	0.990
BCD7->GFP_3-FBz|1|0.5							
BCD10->GFP_3-FBz|1|0.5	616.544	4.27	2520.195	3031.646	4.29	6.96	0.985
(Thr45)-BCD10->GFP_3-FBz|1|0.5	1787.165	4.28	6880.235	7488.235	4.29	7.29	0.993
(Val288)-BCD10->GFP_3-FBz|1|0.5	356.055	4.71	961.882	1657.534	4.96	7.62	0.977
Pben-BCD10->GFP_3-FBz|1|0.5	3045.42	18.09	13805.421	20893.421	18.29	21.62	0.998
PcatB-BCD10:GFP_3-FBz|1|0.5	7027.725	4.87	68074.974	68943.826	6.62	11.29	0.999
PcatB-BCD10:GFP_2-FMA|1|0.1	7573.533	9.60	50191.103	51232.086	10.29	13.96	0.997
Pben-BCD10->GFP_Bz|1|0.5	5133.299	11.37	19585.759	27913.031	10.96	14.29	0.999
Pben-BCD10->GFP_Bz|1|2	4028.357	12.31	12950.638	21277.910	11.96	14.96	0.995
Pben-BCD10->GFP_Bz|1|5	2461.685	12.10	14037.497	22441.343	13.62	16.29	0.996
BCD1->GFP_3-FBz|1|1							
BCD2->GFP_3-FBz|1|1	980.244	4.29	7403.502	7977.273	4.29	6.96	0.991
BCD7->GFP_3-FBz|1|1	1955.126	4.32	7301.733	7915.179	4.29	6.96	0.998
BCD10->GFP_3-FBz|1|1	529.362	4.05	2563.415	3063.415	4.29	6.62	0.949

Table 1: Linear Fit *(continued)*

Sample|Replicate|Conc.	μ_{max}	λ	Δy	y_{max}	t_{start} (μ_{max})	t_{end} (μ_{max})	R^2 (linear fit)	
(Thr45)-BCD10->GFP_3-FBz|1|1	1770.73	4.40	7357.223	8167.568	4.62	7.62	0.997	
(Val288)-BCD10->GFP_3-FBz|1|1	436.408	4.56	1287.815	1750.000	4.62	7.29	0.988	
Pben-BCD10->GFP_3-FBz|1|1	1868.809	19.90	8767.991	16586.957	17.29	20.96	0.998	
PcatB-BCD10:GFP_3-FBz|1|1	7496.623	4.79	68749.856	69456.752	8.96	11.96	0.998	
PcatB-BCD10:GFP_2-FMA|1|0.5	8686.62	8.47	63229.471	64065.678	9.29	12.96	0.996	
PcatB-BCD10:GFP_Bz|1|0.5	271.943	29.35	11110.914	12074.550	14.62	18.62	0.998	
PcatB-BCD10:GFP_Bz|1|2	3465.054	4.30	15750.394	16827.317	4.29	7.96	0.996	
PcatB-BCD10:GFP_Bz|1|5	3840.943	4.36	20752.226	21579.499	4.29	7.29	0.997	
BCD1->GFP_3-FBz|1|5	1472.391	4.78	8074.450	8853.211	5.29	9.29	0.999	
BCD2->GFP_3-FBz|1|5	1560.458	4.51	8895.752	9718.182	4.62	7.96	0.996	
BCD7->GFP_3-FBz|1|5	2326.449	4.49	8189.012	8821.012	4.62	7.29	0.995	
BCD10->GFP_3-FBz|1|5	504.072	4.92	2884.416	3348.416	5.29	8.29	0.985	
(Thr45)-BCD10->GFP_3-FBz|1|5	1100.776	4.80	6297.931	7160.000	5.29	7.96	0.994	
(Val288)-BCD10->GFP_3-FBz|1|5	501.181	4.90	1553.322	2041.322	4.96	7.96	0.990	
Pben-BCD10->GFP_3-FBz|1|5	1002.249	5.81	7424.955	14608.955	7.29	10.29	0.994	
PcatB-BCD10:GFP_3-FBz|1|5	5825.459	5.27	51606.689	52438.547	6.62	10.29	0.999	
PcatB-BCD10:GFP_2-FMA|1|1	8527.981	8.86	70203.108	71091.039	10.62	13.96	0.996	
Ptac-BCD10->GFP|1|NA	1927.428	8.14	0.000	50757.009	8.62	10.96	0.953	
P14g-BCD10->GFP|1|NA	5041.623	13.83	0.000	127522.124	11.29	14.62	0.983	
P14d-BCD10->GFP|1|NA	3137.41	10.07	11214.738	26985.230	10.29	13.29	0.997	
BCD1->GFP_2-FBz|1|1								
BCD2->GFP_2-FBz|1|1	3396.681	5.06	11549.656	12131.474	5.62	8.29	0.993	
BCD7->GFP_2-FBz|1|1	2967.926	4.39	9170.198	9730.198	4.29	6.96	0.990	
BCD10->GFP_2-FBz|1|1	1692.291	5.10	6191.920	6765.690	5.96	8.62	0.996	
(Thr45)-BCD10->GFP_2-FBz|1|1	2503.04	4.98	11519.253	12093.023	5.96	9.29	0.997	
(Val288)-BCD10->GFP_2-FBz|1|1	1127.241	5.00	4124.239	4584.416	5.29	8.29	0.998	
Pben-BCD10->GFP_2-FBz|1|1	2947.686	6.33	13843.046	21670.915	6.96	9.96	0.990	
PcatB-BCD10:GFP_2-FBz|1|1	9730.056	5.48	72587.023	73661.789	6.62	9.62	0.995	
J23108-BCD10->GFP|1|NA	620.895	8.01	0.000	8232.759	8.29	11.29	0.995	
J23114-BCD10->GFP|1|NA	863.515	13.38	0.000	16869.565	10.62	14.62	0.996	
J23119-BCD10->GFP|1|5	5712.28	14.85	0.000	91250.000	11.62	15.29	0.994	
BCD1->GFP_2-FBz|1|5	4019.592	4.79	24486.098	25204.280	4.96	7.96	0.992	
BCD2->GFP_2-FBz|1|5	4378.64	5.92	24870.294	25660.210	6.62	8.96	0.994	
BCD7->GFP_2-FBz|1|5	3092.109	4.72	23654.015	24288.344	4.96	7.96	0.994	
BCD10->GFP_2-FBz|1|5	2603.706	5.46	14427.205	15030.654	5.96	8.62	0.991	
(Thr45)-BCD10->GFP_2-FBz|1|5	4763.595	5.80	27640.624	28392.837	6.29	8.96	0.987	
(Val288)-BCD10->GFP_2-FBz|1|5	1460.388	5.21	7864.984	8501.348	5.62	8.62	0.995	
Pben-BCD10->GFP_2-FBz|1|5	3831.033	10.84	51821.395	59739.577	16.29	19.62	0.999	
PcatB-BCD10:GFP_2-FBz|1|NA	10067.744	5.57	136818.455	137869.476	6.62	9.62	0.992	
Pem7-BCD10->GFP|1|NA	2082.726	10.78	117.983	23957.983	9.62	12.62	0.998	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16000
14000
12000
10000
8000
6000
4000
2000
0
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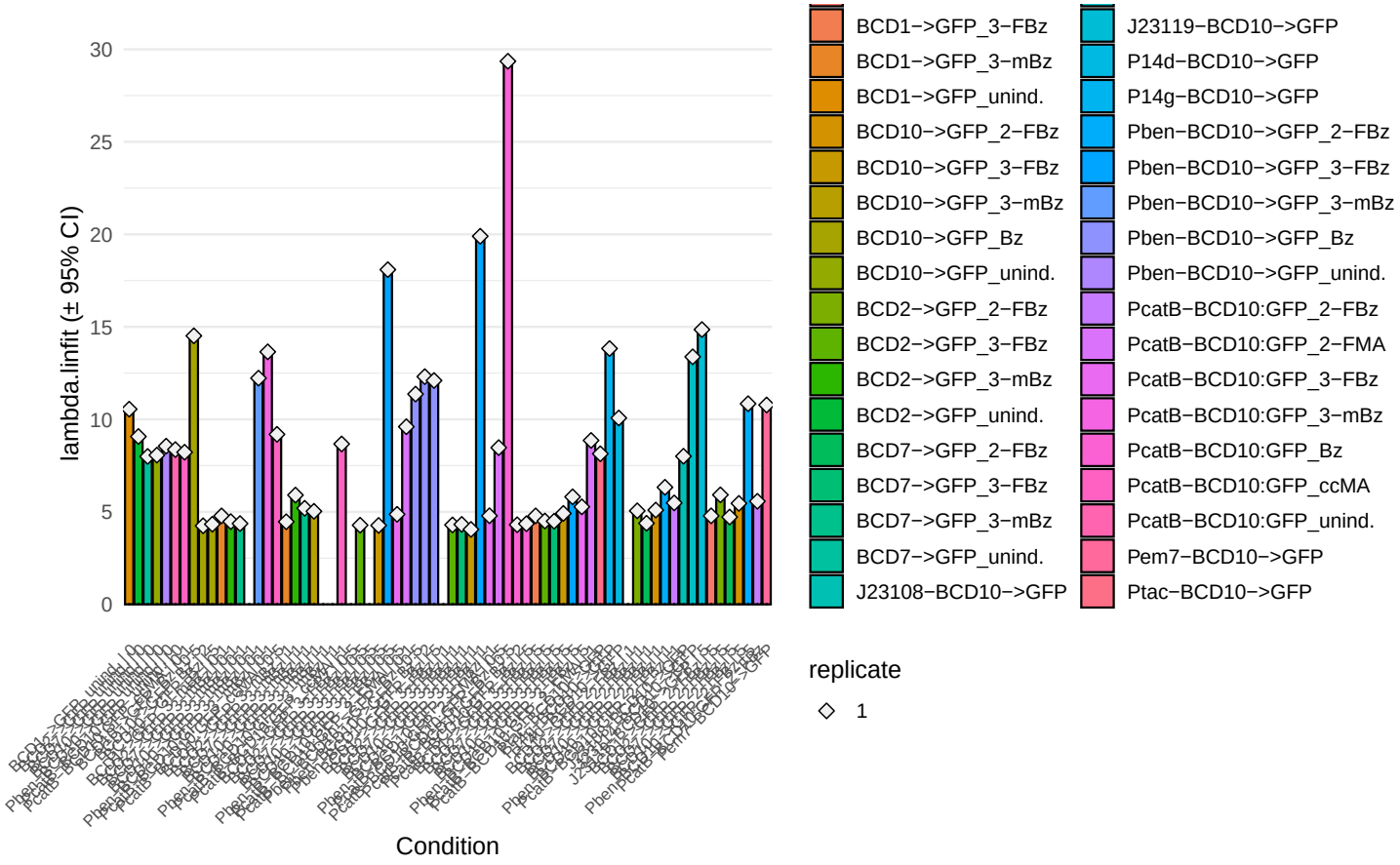
BCD1−>GFP_3−FBz
BCD1−>GFP_3−mBz
BCD1−>GFP_unind.
BCD10−>GFP_2−FBz
BCD10−>GFP_3−FBz
BCD10−>GFP_3−mBz
BCD10−>GFP_Bz
BCD10−>GFP_unind.
BCD2−>GFP_2−FBz
BCD2−>GFP_3−FBz
BCD2−>GFP_3−mBz
BCD2−>GFP_unind.
BCD7−>GFP_2−FBz
BCD7−>GFP_3−FBz
BCD7−>GFP_3−mBz
BCD7−>GFP_unind.
J23108−BCD10−>GFP
J23119−BCD10−>GFP
P14d−BCD10−>GFP
P14g−BCD10−>GFP
Pben−BCD10−>GFP_2−FBz
Pben−BCD10−>GFP_3−FBz
Pben−BCD10−>GFP_3−mBz
Pben−BCD10−>GFP_Bz
Pben−BCD10−>GFP_unind.
PcatB−BCD10:GFP_2−FBz
PcatB−BCD10:GFP_2−FMA
PcatB−BCD10:GFP_3−FBz
PcatB−BCD10:GFP_3−mBz
PcatB−BCD10:GFP_Bz
PcatB−BCD10:GFP_ccMA
PcatB−BCD10:GFP_unind.
Pem7−BCD10−>GFP
Ptac−BCD10−>GFP
replicate
1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30
25
20
15
10
5
0
Condition
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BCD1−>GFP_3−mBz
BCD1−>GFP_unind.
BCD10−>GFP_2−FBz
BCD10−>GFP_3−FBz
BCD10−>GFP_3−mBz
BCD10−>GFP_Bz
BCD10−>GFP_unind.
BCD2−>GFP_2−FBz
BCD2−>GFP_3−FBz
BCD2−>GFP_3−mBz
BCD2−>GFP_unind.
BCD7−>GFP_2−FBz
BCD7−>GFP_3−FBz
BCD7−>GFP_3−mBz
BCD7−>GFP_unind.
J23108−BCD10−>GFP
J23119−BCD10−>GFP
P14d−BCD10−>GFP
P14g−BCD10−>GFP
Pben−BCD10−>GFP_2−FBz
Pben−BCD10−>GFP_3−FBz
Pben−BCD10−>GFP_3−mBz
Pben−BCD10−>GFP_Bz
Pben−BCD10−>GFP_unind.
PcatB−BCD10:GFP_2−FBz
PcatB−BCD10:GFP_2−FMA
PcatB−BCD10:GFP_3−FBz
PcatB−BCD10:GFP_3−mBz
PcatB−BCD10:GFP_Bz
PcatB−BCD10:GFP_ccMA
PcatB−BCD10:GFP_unind.
Pem7−BCD10−>GFP
Ptac−BCD10−>GFP
replicate
1

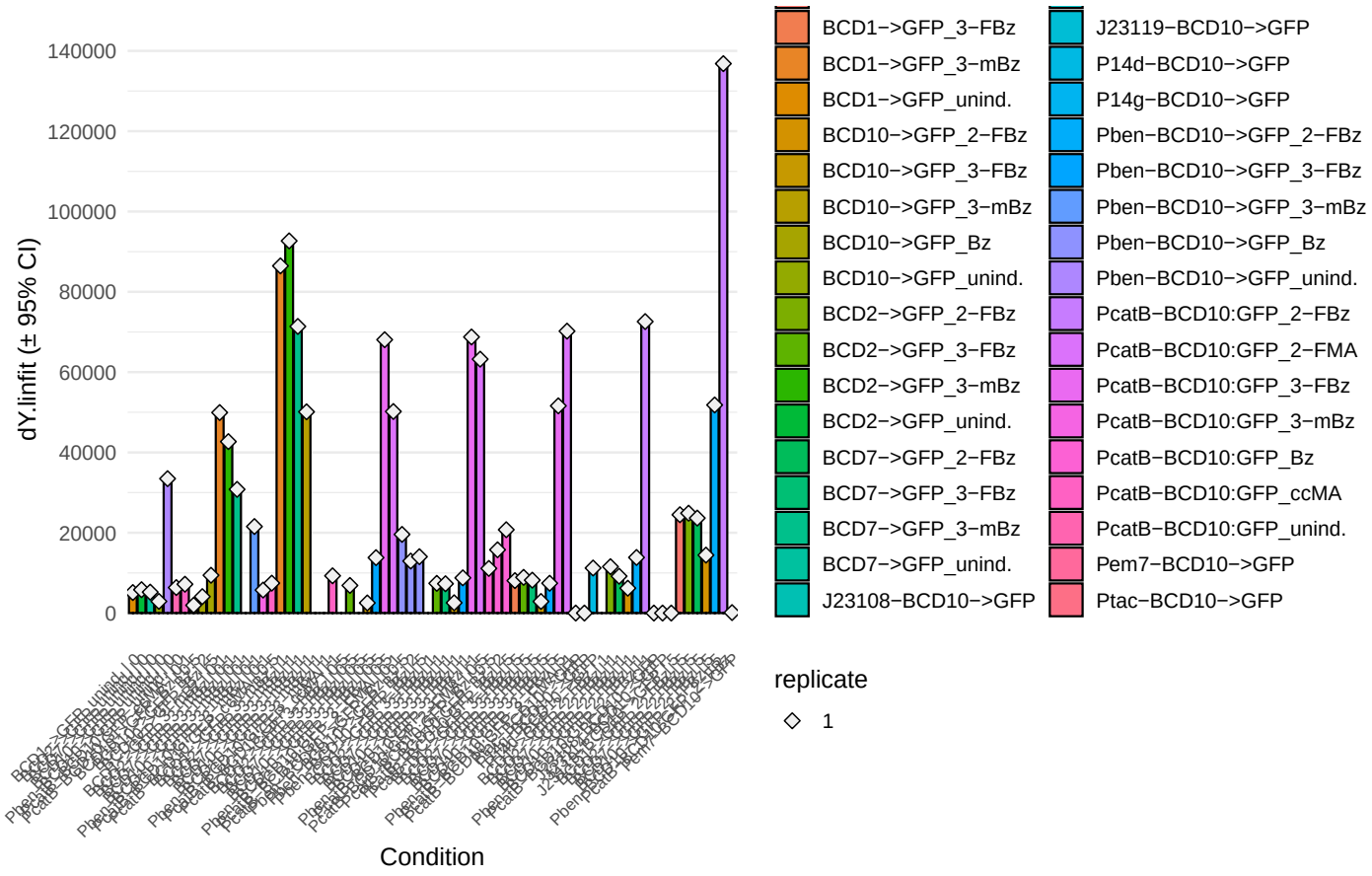
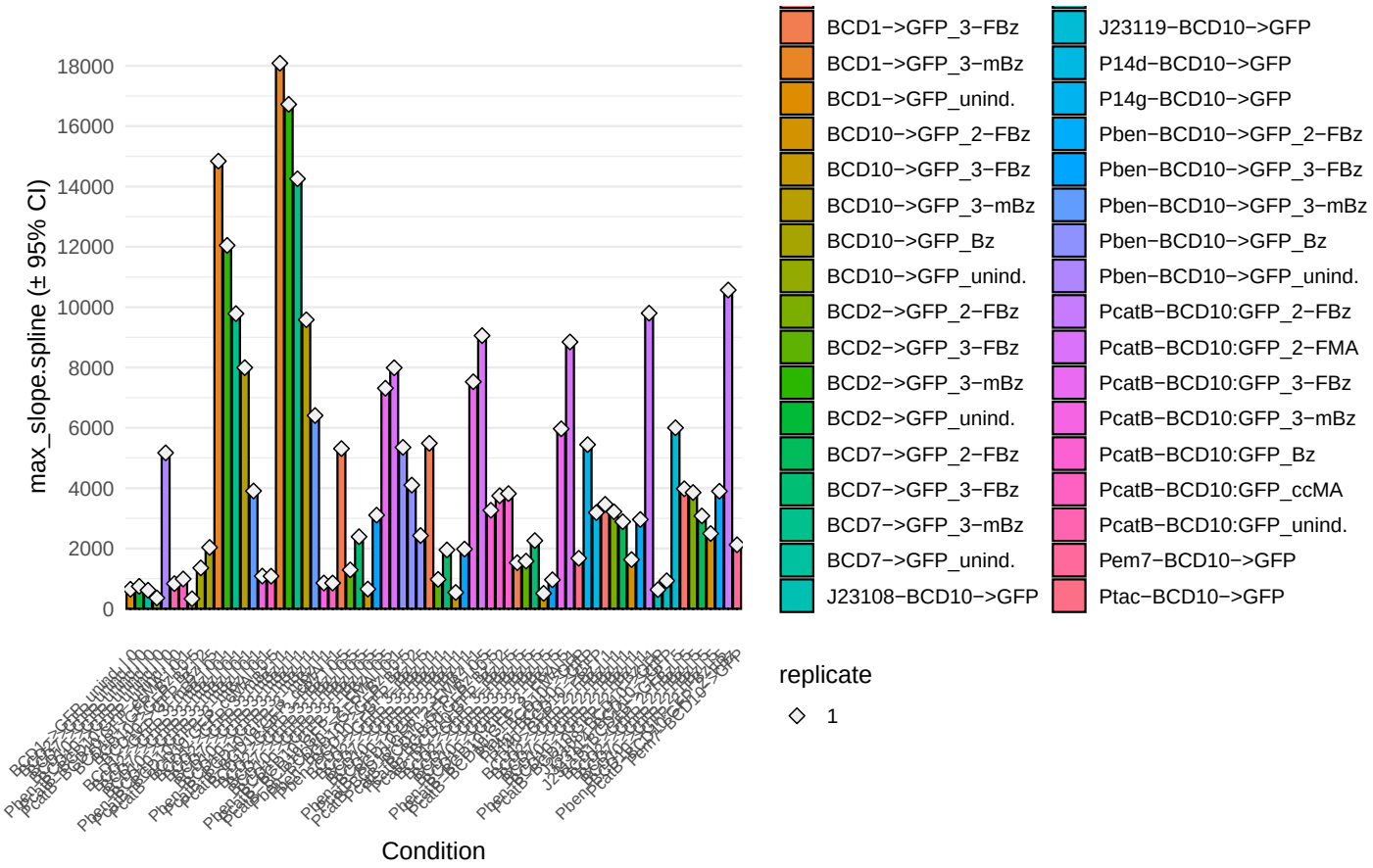

140000
120000
100000
80000
60000
40000
20000
0
dY.linfit (± 95% CI)
Condition
BCD1−>GFP_3−FBz
BCD1−>GFP_3−mBz
BCD1−>GFP_unind.
BCD10−>GFP_2−FBz
BCD10−>GFP_3−FBz
BCD10−>GFP_3−mBz
BCD10−>GFP_Bz
BCD10−>GFP_unind.
BCD2−>GFP_2−FBz
BCD2−>GFP_3−FBz
BCD2−>GFP_3−mBz
BCD2−>GFP_unind.
BCD7−>GFP_2−FBz
BCD7−>GFP_3−FBz
BCD7−>GFP_3−mBz
BCD7−>GFP_unind.
J23108−BCD10−>GFP
J23119−BCD10−>GFP
P14d−BCD10−>GFP
P14g−BCD10−>GFP
Pben−BCD10−>GFP_2−FBz
Pben−BCD10−>GFP_3−FBz
Pben−BCD10−>GFP_3−mBz
Pben−BCD10−>GFP_Bz
Pben−BCD10−>GFP_unind.
PcatB−BCD10:GFP_2−FBz
PcatB−BCD10:GFP_2−FMA
PcatB−BCD10:GFP_3−FBz
PcatB−BCD10:GFP_3−mBz
PcatB−BCD10:GFP_Bz
PcatB−BCD10:GFP_ccMA
PcatB−BCD10:GFP_unind.
Pem7−BCD10−>GFP
Ptac−BCD10−>GFP
replicate
1

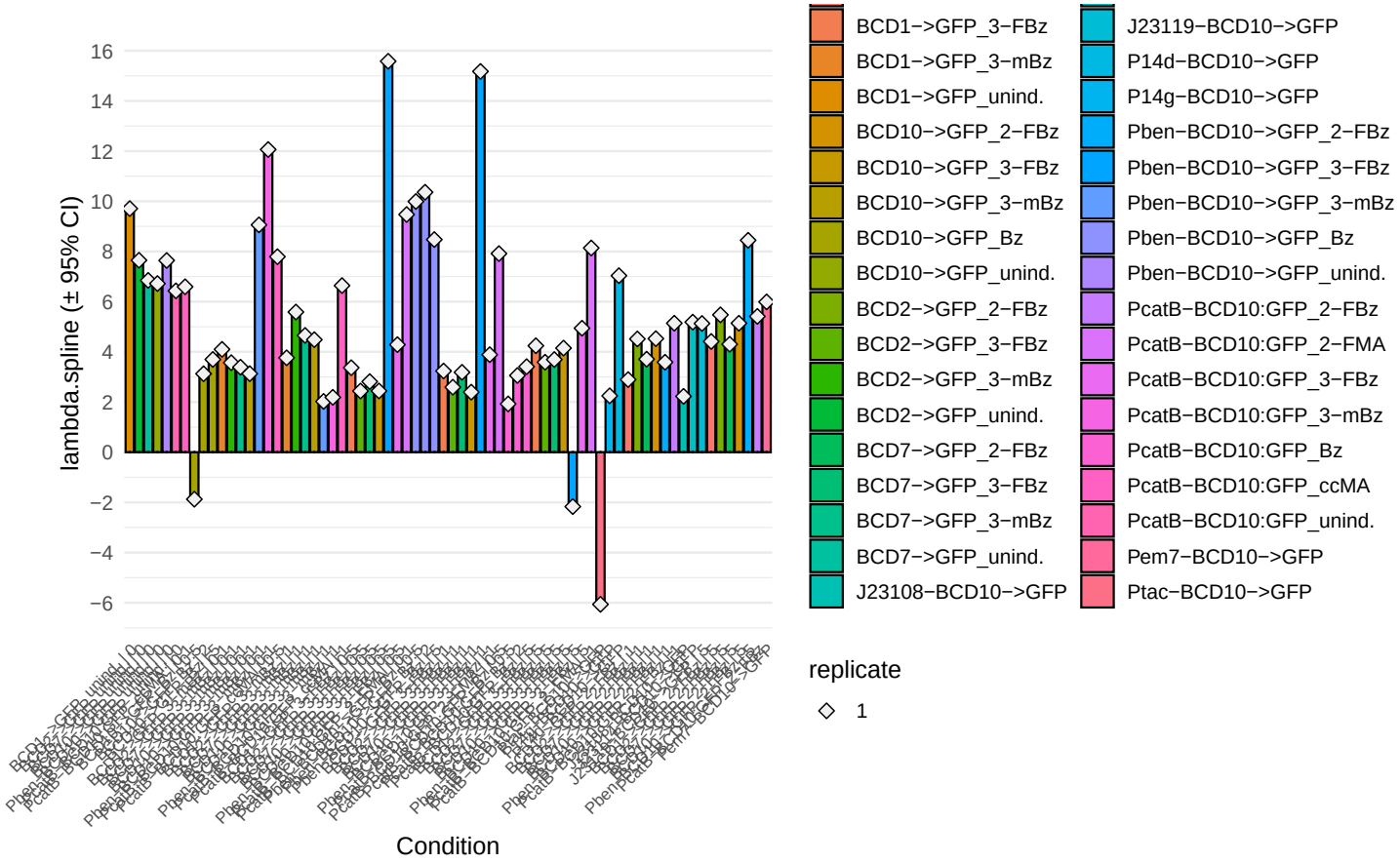
Table 2: Smooth Spline Fit

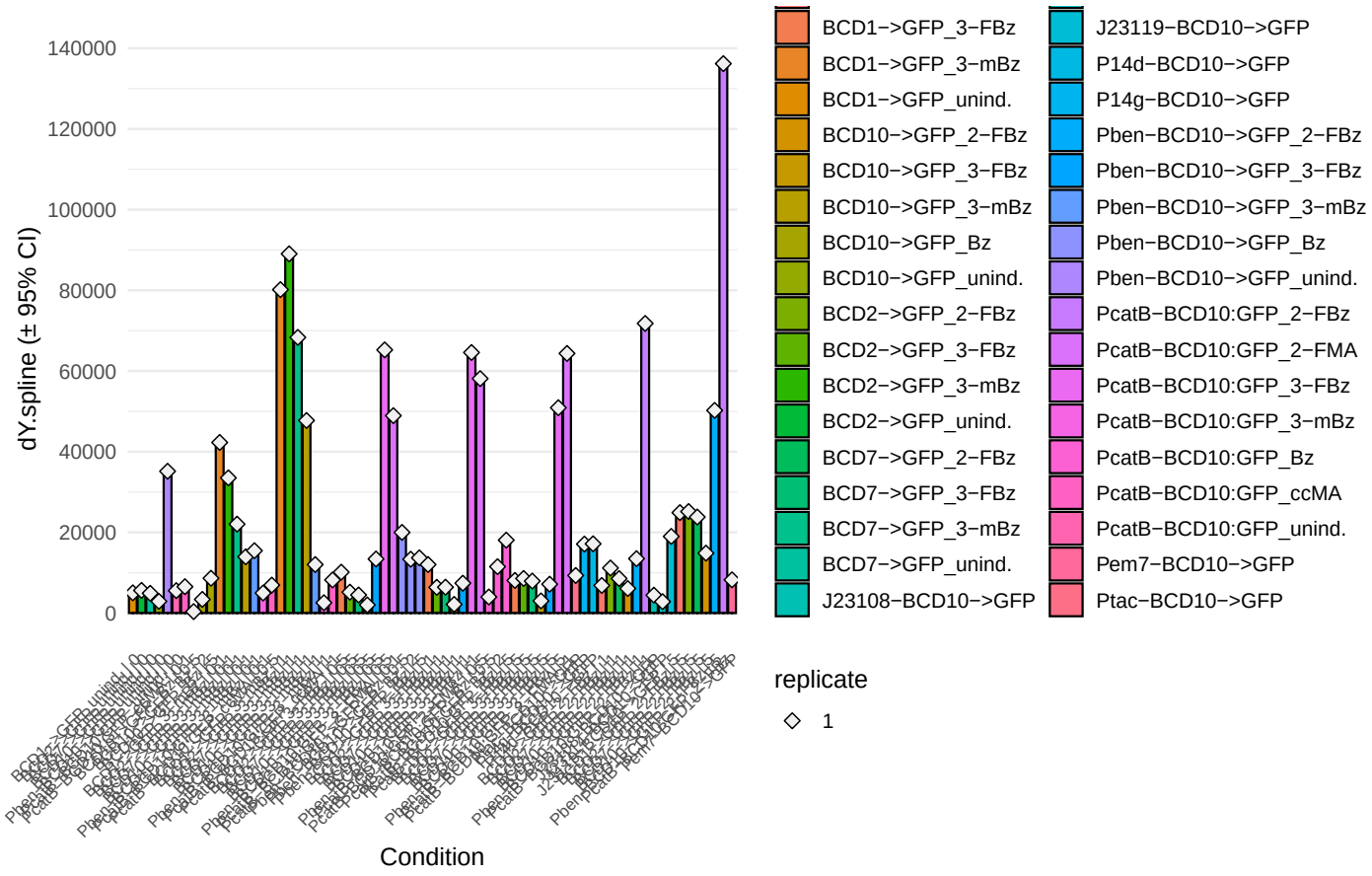
Sample|Replicate|Conc.	μ_{max}	λ	y_{max}	Δy	t_{max}	smooth. fac
BCD1->GFP_unind.|1|0	649.059	9.71	5662.248	5012.182		0.55
BCD2->GFP_unind.|1|0	745.553	7.65	6657.850	5613.866		0.55
BCD7->GFP_unind.|1|0	617.568	6.85	5676.597	4900.229		0.55
BCD10->GFP_unind.|1|0	361.996	6.72	3376.487	2900.686		0.55
(Thr45)-BCD10->GFP_unind.|1|0	1487.105	9.06	11239.777	10343.239		0.55
(Val288)-BCD10->GFP_unind.|1|0	29.544	3.33	625.595	319.623		0.55
Pben-BCD10->GFP_unind.|1|0	5170.654	7.64	40757.914	35145.201		0.55
PcatB-BCD10:GFP_unind.|1|0	834.626	6.43	7253.130	5558.243		0.55
PcatB-BCD10:GFP_ccMA|1|0.1	989.325	6.59	8275.537	6536.097		0.55
BCD10->GFP_Bz|1|0.5	334.922	-1.87	2313.243	360.469		0.55
BCD10->GFP_Bz|1|2	1354.978	3.13	4515.162	3385.455		0.55
BCD10->GFP_Bz|1|5	2035.011	3.70	9273.501	8627.234		0.55
BCD1->GFP_3-mBz|1|0.1	14839.758	4.10	44895.320	42282.852		0.55
BCD2->GFP_3-mBz|1|0.1	12047.710	3.57	39084.432	33509.805		0.55
BCD7->GFP_3-mBz|1|0.1	9785.242	3.39	27650.600	22039.539		0.55
BCD10->GFP_3-mBz|1|0.1	7995.064	3.13	20562.131	13948.645		0.55
(Thr45)-BCD10->GFP_3-mBz|1|0.1	8347.944	3.28	23087.888	17454.891		0.55
(Val288)-BCD10->GFP_3-mBz|1|0.1	70.159	-3.06	590.303	98.070		0.55
Pben-BCD10->GFP_3-mBz|1|0.1	3906.130	9.06	28527.565	15460.860		0.55
PcatB-BCD10:GFP_3-mBz|1|0.1	1084.981	12.06	6663.717	4969.417		0.55
PcatB-BCD10:GFP_ccMA|1|0.5	1082.099	7.79	8369.383	6926.416		0.55
(Thr45)-BCD10->GFP_Bz|1|0.5	1195.456	1.78	5733.488	3127.617		0.55
(Thr45)-BCD10->GFP_Bz|1|2	3049.433	3.62	9765.506	8597.640		0.55
(Thr45)-BCD10->GFP_Bz|1|2	3481.348	4.54	18280.824	18269.503		0.55
BCD1->GFP_3-mBz|1|1	18085.583	3.76	87242.727	80168.213		0.55
BCD2->GFP_3-mBz|1|1	16722.691	5.59	91906.406	89040.621		0.55
BCD7->GFP_3-mBz|1|1	14254.809	4.65	71437.161	68329.707		0.55
BCD10->GFP_3-mBz|1|1	9582.307	4.48	50065.856	47730.161		0.55
(Thr45)-BCD10->GFP_3-mBz|1|1	10208.329	5.19	64492.138	61886.439		0.55
(Val288)-BCD10->GFP_3-mBz|1|1	176.377	2.39	856.941	578.629		0.55
Pben-BCD10->GFP_3-mBz|1|1	6406.678	2.02	24409.233	12020.794		0.55
PcatB-BCD10:GFP_3-mBz|1|1	856.177	2.19	4078.118	2563.027		0.55
PcatB-BCD10:GFP_ccMA|1|1	855.334	6.64	10019.229	8205.638		0.55
(Val288)-BCD10->GFP_Bz|1|0.5	222.180	2.00	748.694	314.399		0.55
(Val288)-BCD10->GFP_Bz|1|2	420.784	2.94	1546.823	1106.104		0.55
(Val288)-BCD10->GFP_Bz|1|5	504.835	4.70	2419.323	2233.294		0.55
BCD1->GFP_3-FBz|1|0.5	5311.681	3.37	13263.556	10132.898		0.55
BCD2->GFP_3-FBz|1|0.5	1291.772	2.44	7144.225	5181.579		0.55
BCD7->GFP_3-FBz|1|0.5	2390.815	2.81	7213.065	4479.747		0.55
BCD10->GFP_3-FBz|1|0.5	656.132	2.44	3004.401	2009.866		0.55
(Thr45)-BCD10->GFP_3-FBz|1|0.5	1853.543	2.96	7340.205	5464.983		0.55
(Val288)-BCD10->GFP_3-FBz|1|0.5	328.852	3.64	1470.145	1179.535		0.55
Pben-BCD10->GFP_3-FBz|1|0.5	3105.824	15.58	20912.966	13398.873		0.55
PcatB-BCD10:GFP_3-FBz|1|0.5	7312.505	4.29	68882.480	65224.987		0.55
PcatB-BCD10:GFP_2-FMA|1|0.1	7990.358	9.47	51056.651	48931.283		0.55
Pben-BCD10->GFP_Bz|1|0.5	5352.556	9.99	27910.199	19994.876		0.55
Pben-BCD10->GFP_Bz|1|2	4102.101	10.36	21282.489	13345.562		0.55
Pben-BCD10->GFP_Bz|1|5	2429.151	8.47	22438.166	13683.427		0.55
BCD1->GFP_3-FBz|1|1	5486.893	3.24	15980.173	12025.530		0.55
BCD2->GFP_3-FBz|1|1	976.017	2.59	7715.538	6379.959		0.55
BCD7->GFP_3-FBz|1|1	1952.778	3.18	7933.309	6411.791		0.55
BCD10->GFP_3-FBz|1|1	542.700	2.39	2997.796	2148.908		0.55
(Thr45)-BCD10->GFP_3-FBz|1|1	1781.014	3.32	8105.413	6802.489		0.55
(Val288)-BCD10->GFP_3-FBz|1|1	413.866	3.60	1741.274	1459.061		0.55

Table 2: Smooth Spline Fit *(continued)*

Sample|Replicate|Conc.	μ_{max}	λ	y_{max}	Δy	t_{max}	smooth. fac
Pben-BCD10->GFP_3-FBz|1|1	1980.874	15.17	16290.675	7402.295		0.55
PcatB-BCD10:GFP_3-FBz|1|1	7525.342	3.89	69285.371	64583.787		0.55
PcatB-BCD10:GFP_2-FMA|1|0.5	9055.778	7.91	64030.621	58113.671		0.55
PcatB-BCD10:GFP_Bz|1|0.5	3266.322	1.92	10620.473	3983.322		0.55
PcatB-BCD10:GFP_Bz|1|2	3747.491	3.06	14978.953	11495.481		0.55
PcatB-BCD10:GFP_Bz|1|5	3819.687	3.41	20399.371	18074.691		0.55
BCD1->GFP_3-FBz|1|5	1530.036	4.24	8789.980	8082.933		0.55
BCD2->GFP_3-FBz|1|5	1581.339	3.59	9585.141	8573.071		0.55
BCD7->GFP_3-FBz|1|5	2261.548	3.69	8822.808	7923.771		0.55
BCD10->GFP_3-FBz|1|5	513.085	4.15	3288.692	3016.877		0.55
(Thr45)-BCD10->GFP_3-FBz|1|5	1079.141	3.83	7060.661	6358.452		0.55
(Val288)-BCD10->GFP_3-FBz|1|5	497.080	4.25	1959.998	1813.454		0.55
Pben-BCD10->GFP_3-FBz|1|5	962.576	-2.17	14611.632	7156.661		0.55
PcatB-BCD10:GFP_3-FBz|1|5	5966.871	4.94	52192.232	50901.058		0.55
PcatB-BCD10:GFP_2-FMA|1|1	8845.910	8.14	70957.772	64350.450		0.55
Ptac-BCD10->GFP|1|NA	1675.973	-6.06	32879.216	9311.846		0.55
P14g-BCD10->GFP|1|NA	5443.291	2.25	82242.542	17096.661		0.55
P14d-BCD10->GFP|1|NA	3190.387	7.03	26983.927	17162.189		0.55
BCD1->GFP_2-FBz|1|1	3463.755	2.89	10520.501	6838.886		0.55
BCD2->GFP_2-FBz|1|1	3217.498	4.51	11774.662	11157.489		0.55
BCD7->GFP_2-FBz|1|1	2888.546	3.71	9449.303	8542.029		0.55
BCD10->GFP_2-FBz|1|1	1631.338	4.52	6506.183	6079.001		0.55
(Thr45)-BCD10->GFP_2-FBz|1|1	2530.648	4.38	11777.967	10885.753		0.55
(Val288)-BCD10->GFP_2-FBz|1|1	1129.723	4.48	4404.748	4145.015		0.55
Pben-BCD10->GFP_2-FBz|1|1	2960.829	3.59	21424.650	13482.650		0.55
PcatB-BCD10:GFP_2-FBz|1|1	9800.509	5.14	73615.489	71783.980		0.55
J23108-BCD10->GFP|1|NA	634.908	2.23	8220.296	4437.095		0.55
J23114-BCD10->GFP|1|NA	930.195	5.18	10872.211	2829.768		0.55
J23119-BCD10->GFP|1|5	6001.111	5.13	78546.591	18994.325		0.55
BCD1->GFP_2-FBz|1|5	3980.018	4.41	25092.969	24892.508		0.55
BCD2->GFP_2-FBz|1|5	3855.734	5.47	25429.046	25163.711		0.55
BCD7->GFP_2-FBz|1|5	3079.060	4.30	24147.322	23804.331		0.55
BCD10->GFP_2-FBz|1|5	2496.148	5.14	14975.035	14842.688		0.55
(Thr45)-BCD10->GFP_2-FBz|1|5	4530.799	5.54	28379.278	28207.536		0.55
(Val288)-BCD10->GFP_2-FBz|1|5	1473.923	5.07	8494.177	8357.310		0.55
Pben-BCD10->GFP_2-FBz|1|5	3898.744	8.45	59754.412	50233.829		0.55
PcatB-BCD10:GFP_2-FBz|1|NA	10567.392	5.41	137747.382	136183.704		0.55
Pem7-BCD10->GFP|1|NA	2122.669	5.99	18947.471	8233.832		0.55

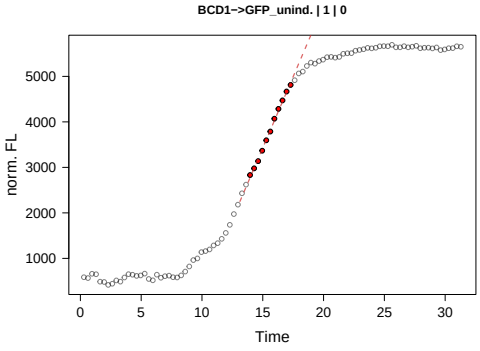

max_slope.spline (± 95% CI)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Condition
BCD1−>GFP_3−FBz
BCD1−>GFP_3−mBz
BCD1−>GFP_unind.
BCD10−>GFP_2−FBz
BCD10−>GFP_3−FBz
BCD10−>GFP_3−mBz
BCD10−>GFP_Bz
BCD10−>GFP_unind.
BCD2−>GFP_2−FBz
BCD2−>GFP_3−FBz
BCD2−>GFP_3−mBz
BCD2−>GFP_unind.
BCD7−>GFP_2−FBz
BCD7−>GFP_3−FBz
BCD7−>GFP_3−mBz
BCD7−>GFP_unind.
J23108−BCD10−>GFP
J23119−BCD10−>GFP
P14d−BCD10−>GFP
P14g−BCD10−>GFP
Pben−BCD10−>GFP_2−FBz
Pben−BCD10−>GFP_3−FBz
Pben−BCD10−>GFP_3−mBz
Pben−BCD10−>GFP_Bz
Pben−BCD10−>GFP_unind.
PcatB−BCD10:GFP_2−FBz
PcatB−BCD10:GFP_2−FMA
PcatB−BCD10:GFP_3−FBz
PcatB−BCD10:GFP_3−mBz
PcatB−BCD10:GFP_Bz
PcatB−BCD10:GFP_ccMA
PcatB−BCD10:GFP_unind.
Pem7−BCD10−>GFP
Ptac−BCD10−>GFP
replicate
1

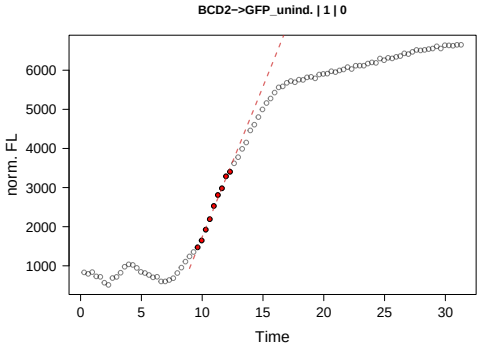

lambda.spline (± 95% CI)
16
14
12
10
8
6
4
2
0
−2
−4
−6
Condition
BCD1−>GFP_3−FBz
BCD1−>GFP_3−mBz
BCD1−>GFP_unind.
BCD10−>GFP_2−FBz
BCD10−>GFP_3−FBz
BCD10−>GFP_3−mBz
BCD10−>GFP_Bz
BCD10−>GFP_unind.
BCD2−>GFP_2−FBz
BCD2−>GFP_3−FBz
BCD2−>GFP_3−mBz
BCD2−>GFP_unind.
BCD7−>GFP_2−FBz
BCD7−>GFP_3−FBz
BCD7−>GFP_3−mBz
BCD7−>GFP_unind.
J23108−BCD10−>GFP
J23119−BCD10−>GFP
P14d−BCD10−>GFP
P14g−BCD10−>GFP
Pben−BCD10−>GFP_2−FBz
Pben−BCD10−>GFP_3−FBz
Pben−BCD10−>GFP_3−mBz
Pben−BCD10−>GFP_Bz
Pben−BCD10−>GFP_unind.
PcatB−BCD10:GFP_2−FBz
PcatB−BCD10:GFP_2−FMA
PcatB−BCD10:GFP_3−FBz
PcatB−BCD10:GFP_3−mBz
PcatB−BCD10:GFP_Bz
PcatB−BCD10:GFP_ccMA
PcatB−BCD10:GFP_unind.
Pem7−BCD10−>GFP
Ptac−BCD10−>GFP
replicate
1

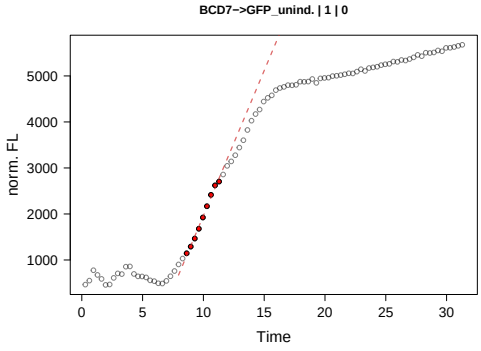

140000
120000
100000
80000
60000
40000
20000
0
dY.spline (± 95% CI)
Condition
BCD1−>GFP_3−FBz
BCD1−>GFP_3−mBz
BCD1−>GFP_unind.
BCD10−>GFP_2−FBz
BCD10−>GFP_3−FBz
BCD10−>GFP_3−mBz
BCD10−>GFP_Bz
BCD10−>GFP_unind.
BCD2−>GFP_2−FBz
BCD2−>GFP_3−FBz
BCD2−>GFP_3−mBz
BCD2−>GFP_unind.
BCD7−>GFP_2−FBz
BCD7−>GFP_3−FBz
BCD7−>GFP_3−mBz
BCD7−>GFP_unind.
J23108−BCD10−>GFP
J23119−BCD10−>GFP
P14d−BCD10−>GFP
P14g−BCD10−>GFP
Pben−BCD10−>GFP_2−FBz
Pben−BCD10−>GFP_3−FBz
Pben−BCD10−>GFP_3−mBz
Pben−BCD10−>GFP_Bz
Pben−BCD10−>GFP_unind.
PcatB−BCD10:GFP_2−FBz
PcatB−BCD10:GFP_2−FMA
PcatB−BCD10:GFP_3−FBz
PcatB−BCD10:GFP_3−mBz
PcatB−BCD10:GFP_Bz
PcatB−BCD10:GFP_ccMA
PcatB−BCD10:GFP_unind.
Pem7−BCD10−>GFP
Ptac−BCD10−>GFP
replicate
1

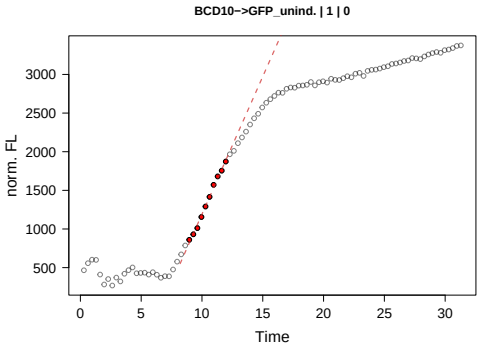
Plots

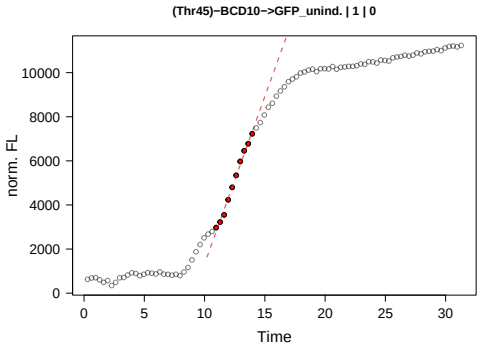
Linear Fits

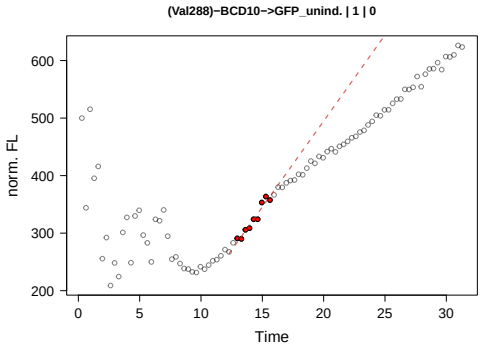


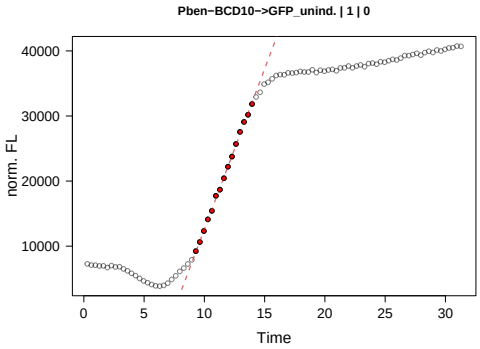


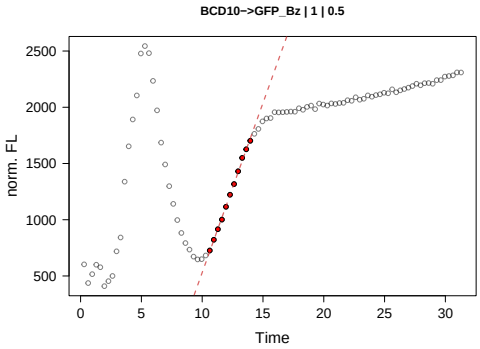


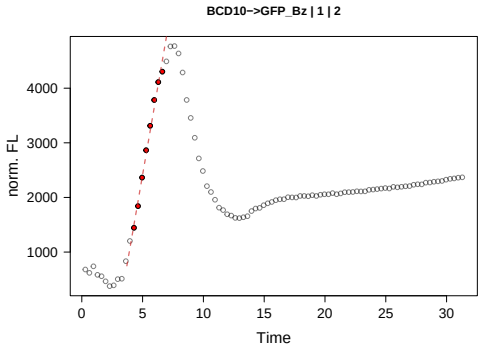


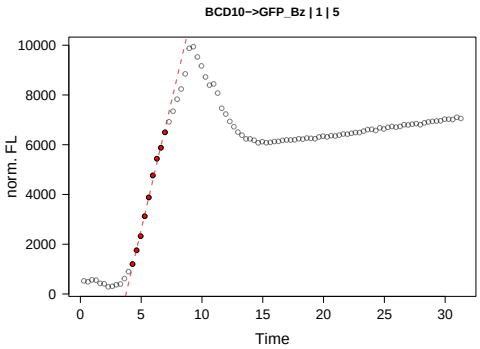


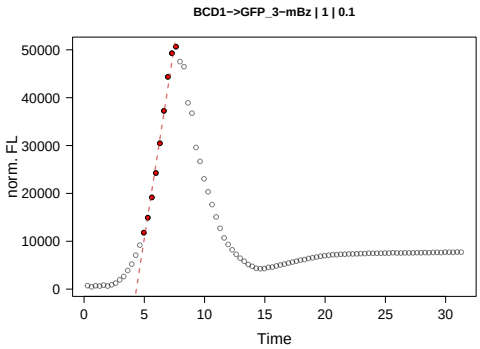


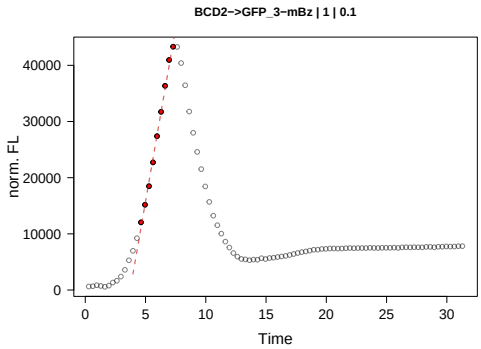


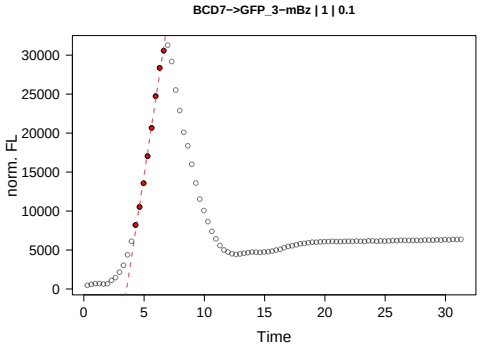


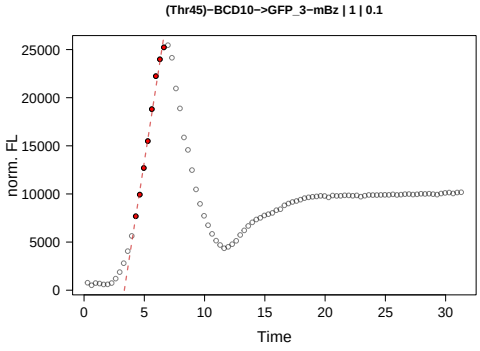


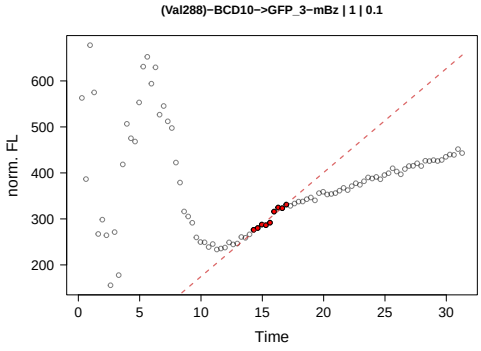


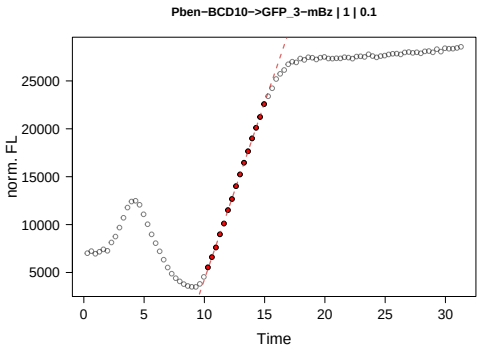


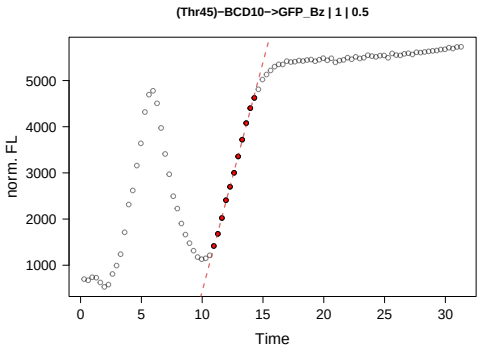


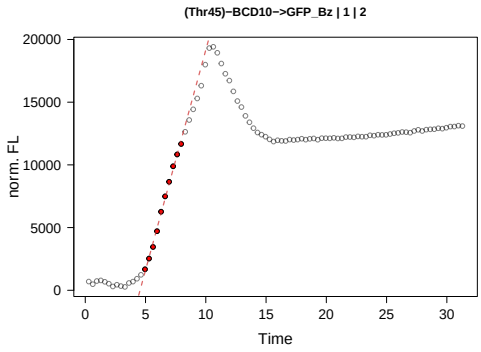

BCD7->GFP_3-mBz | 1 | 0.1
norm. FL
Time

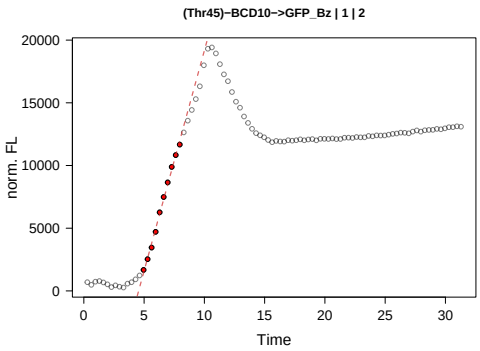

(Thr45)-BCD10->GFP_3-mBz | 1 | 0.1
norm. FL
Time


(Val288)-BCD10->GFP_3-mBz | 1 | 0.1
norm. FL
Time


Pben-BCD10->GFP_3-mBz | 1 | 0.1
norm. FL
Time


(Thr45)-BCD10->GFP_Bz | 1 | 0.5
norm. FL
Time


(Thr45)-BCD10->GFP_Bz | 1 | 2
norm. FL
Time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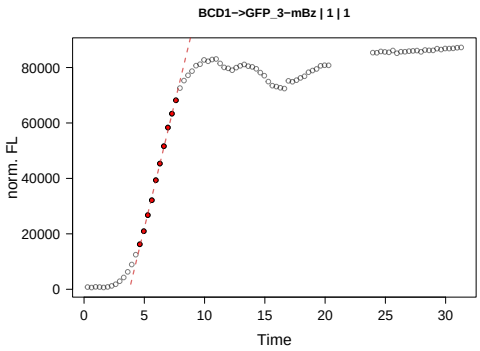
norm. FL
Time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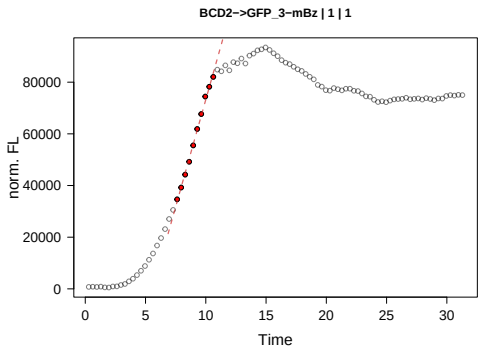
Time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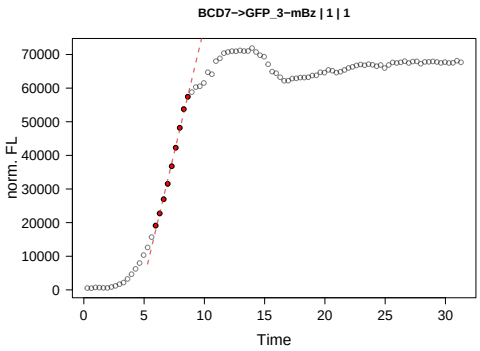
Time


BCD7->GFP_3-mBz | 1 | 1
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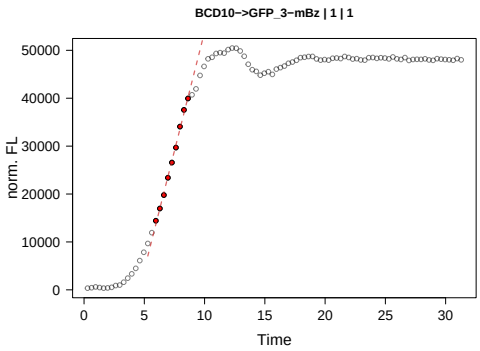
Time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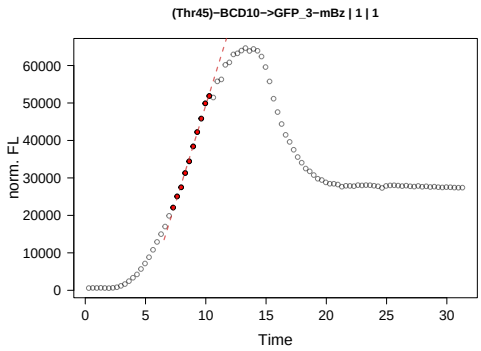
Time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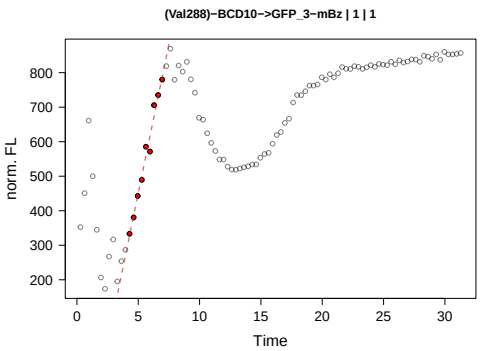
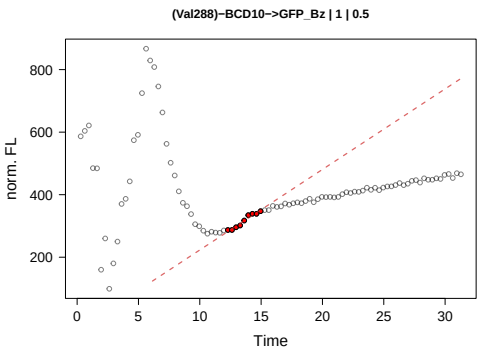
norm. FL
Time


(Val288)-BCD10->GFP_3-mBz | 1 | 1
norm. FL
Time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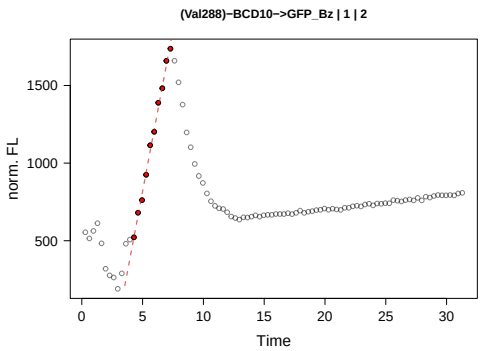
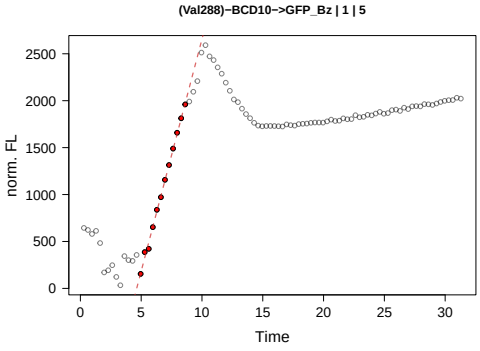
norm. FL
Time


(Val288)-BCD10->GFP_Bz | 1 | 2
norm. FL
Time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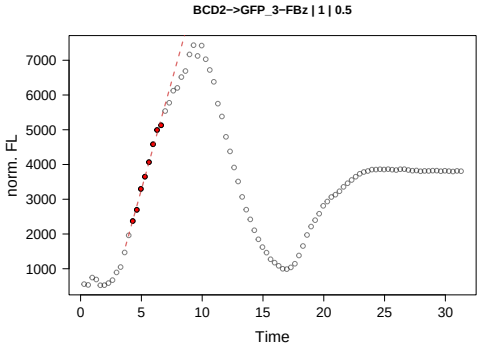
norm. FL
Time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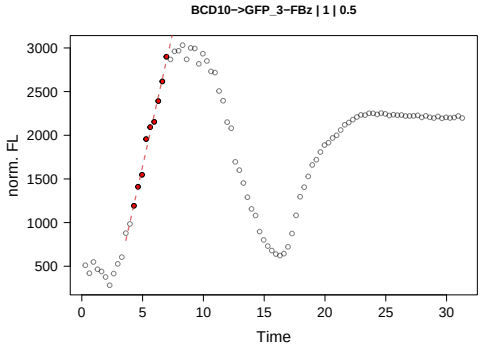
norm. FL
Time


BCD10−>GFP_3−FBz | 1 | 0.5
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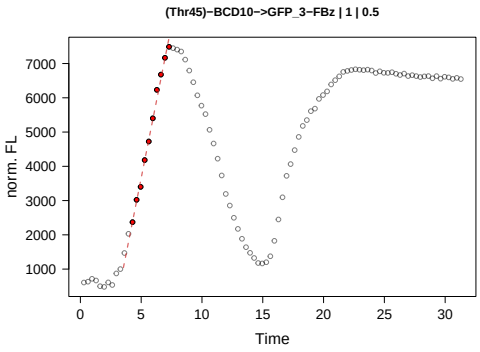
Time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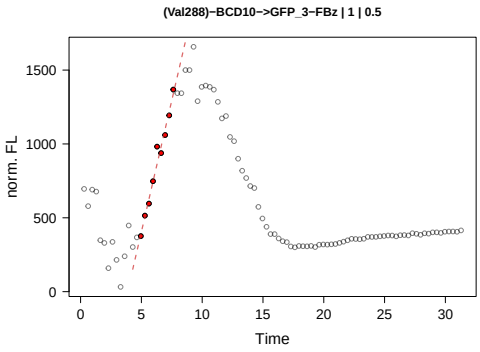
norm. FL
Time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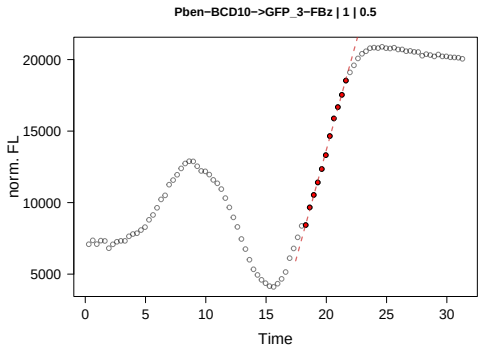
norm. FL
Time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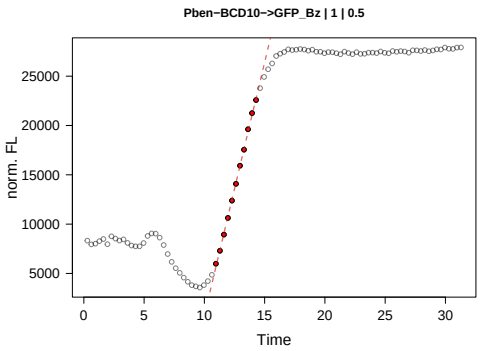
norm. FL
Time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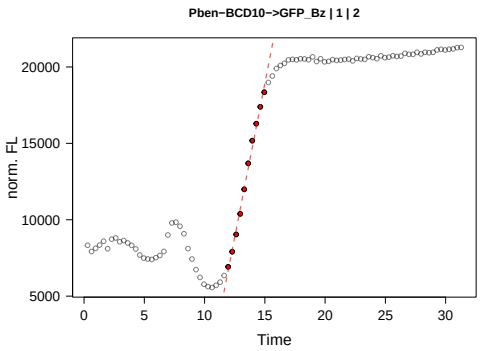
Time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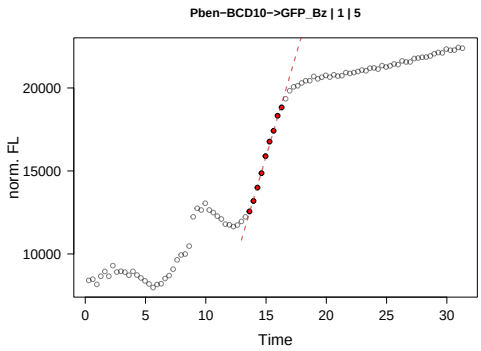
norm. FL
Time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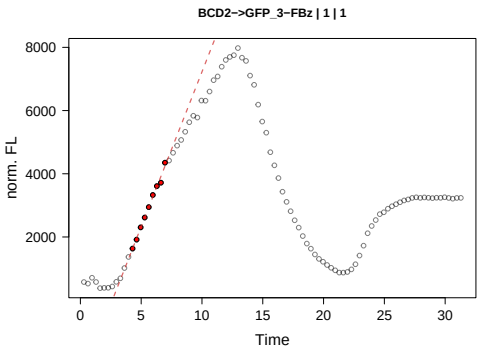
norm. FL
Time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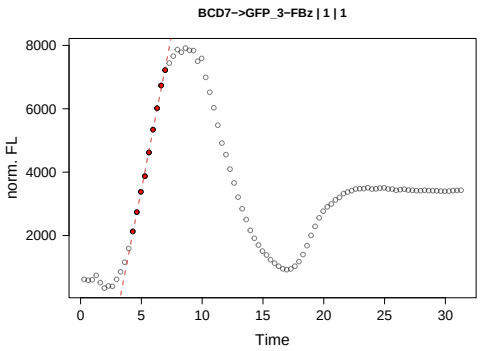
norm. FL
Time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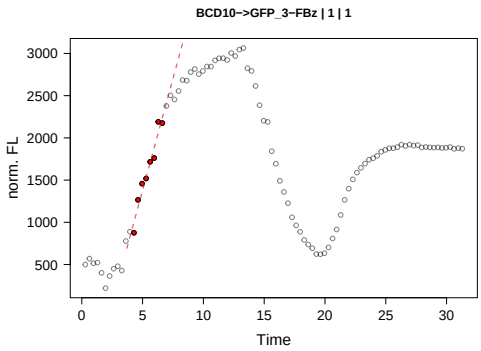
norm. FL
Time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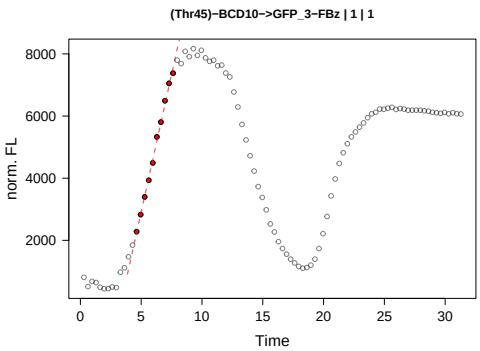
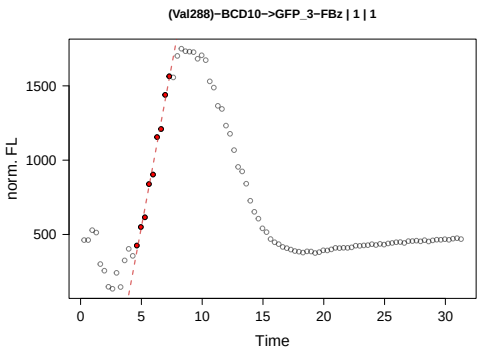
norm. FL
Time


(Thr45)−BCD10−>GFP_3−FBz | 1 | 1
norm. FL
Time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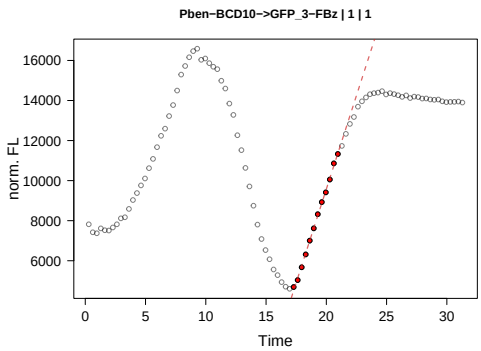
norm. FL
Time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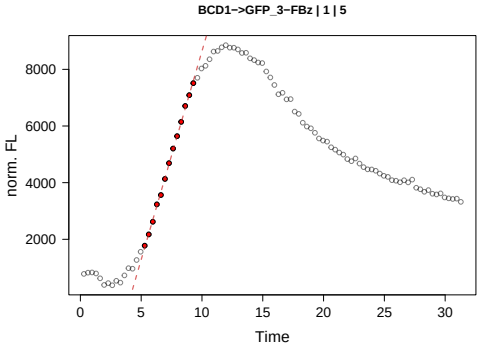
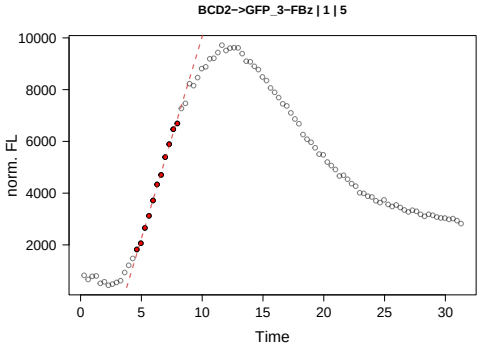
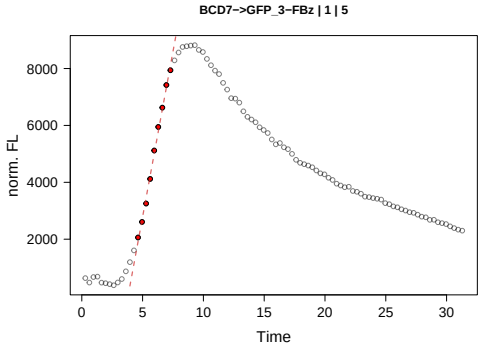
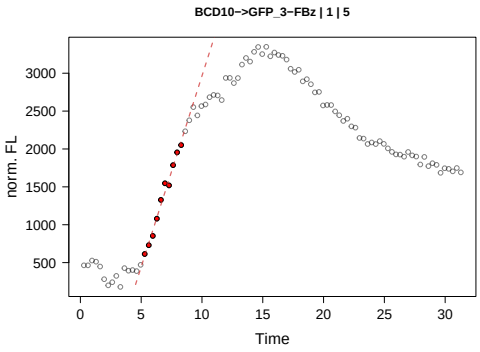

BCD1->GFP_3-FBz | 1 | 5
norm. FL
Time


BCD2->GFP_3-FBz | 1 | 5
norm. FL
Time


BCD7->GFP_3-FBz | 1 | 5
norm. FL
Time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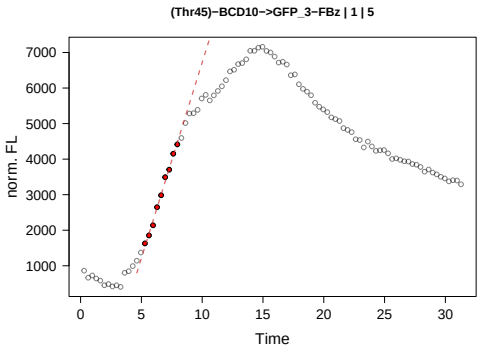
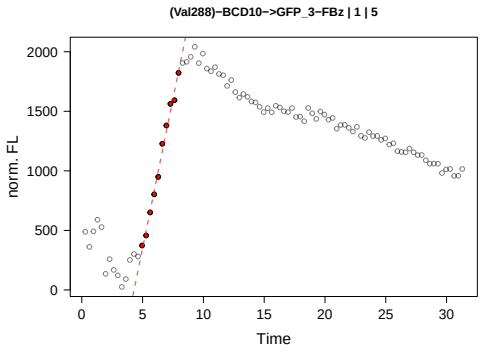
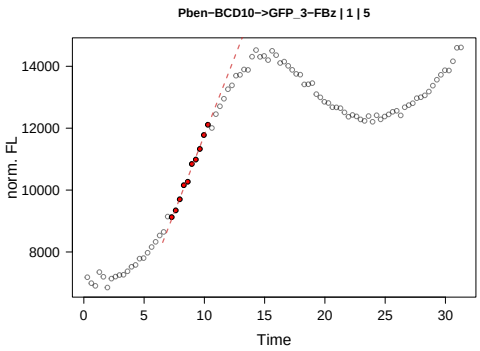
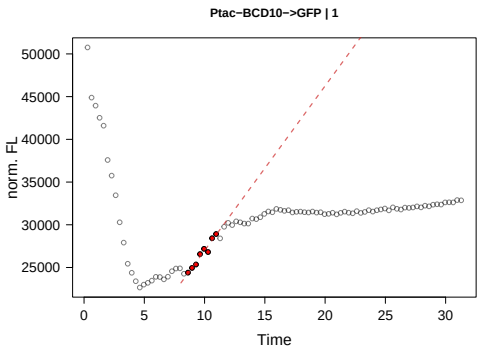
norm. FL
Time


(Thr45)-BCD10->GFP_3-FBz | 1 | 5
norm. FL
Time


(Val288)-BCD10->GFP_3-FBz | 1 | 5
norm. FL
Time


Pben-BCD10->GFP_3-FBz | 1 | 5
norm. FL
Time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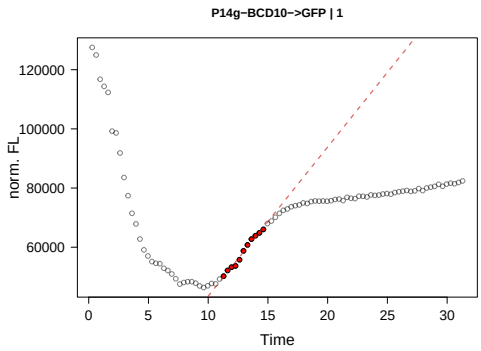
norm. FL
Time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norm. FL
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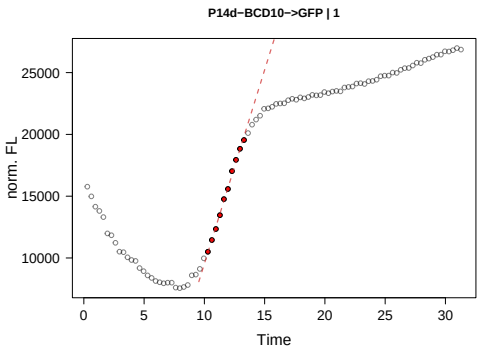
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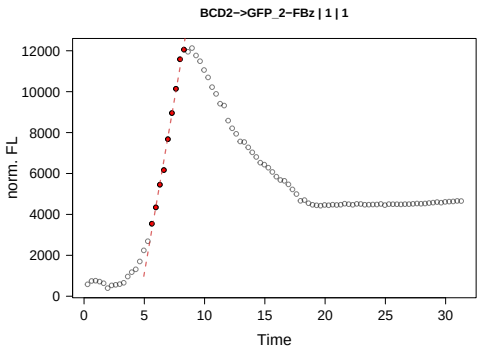
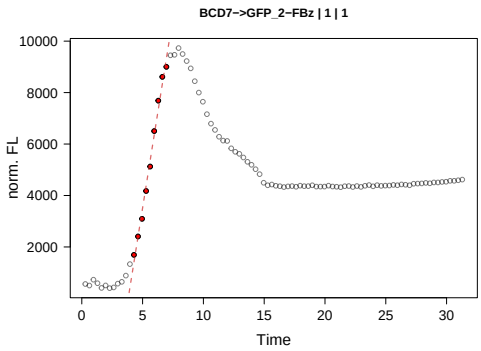
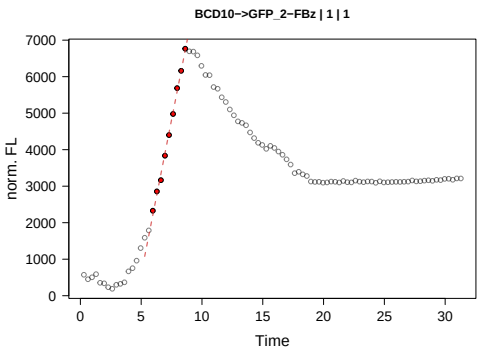
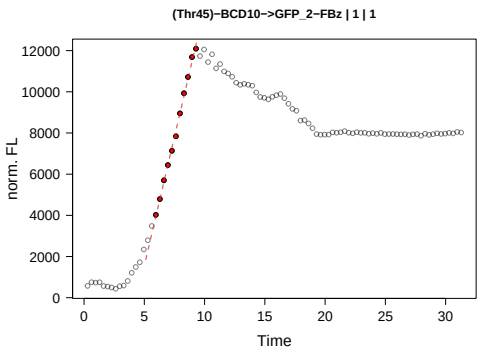
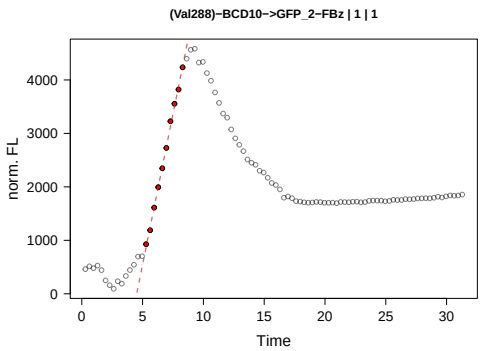
norm. FL
Time

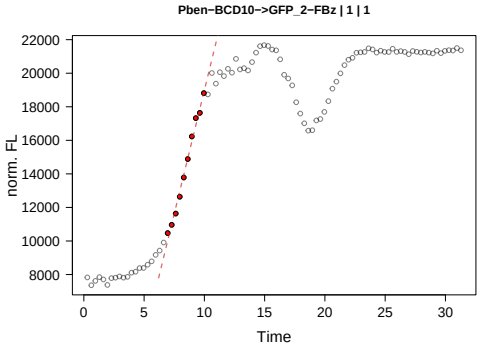

BCD2->GFP_2-FBz | 1 | 1
norm. FL
Time


BCD7->GFP_2-FBz | 1 | 1
norm. FL
Time


BCD10->GFP_2-FBz | 1 | 1
norm. FL
Time


(Thr45)-BCD10->GFP_2-FBz | 1 | 1
norm. FL
Time


(Val288)-BCD10->GFP_2-FBz | 1 | 1
norm. FL
Time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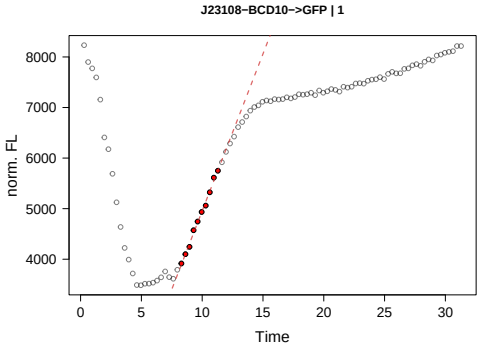
J23108−BCD10−>GFP | 1
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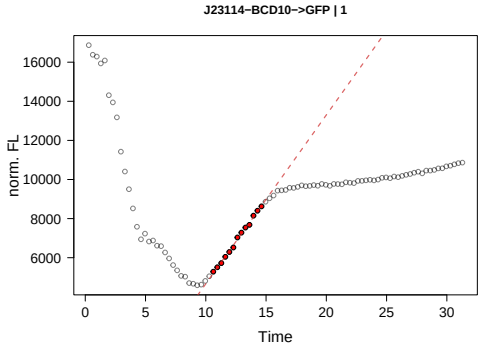
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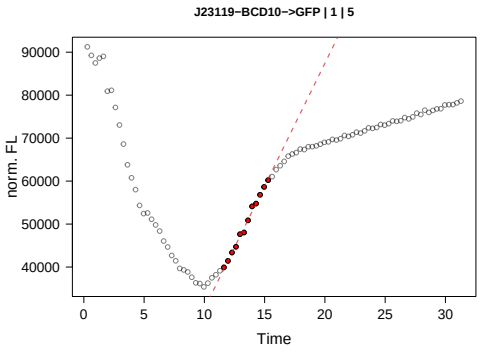
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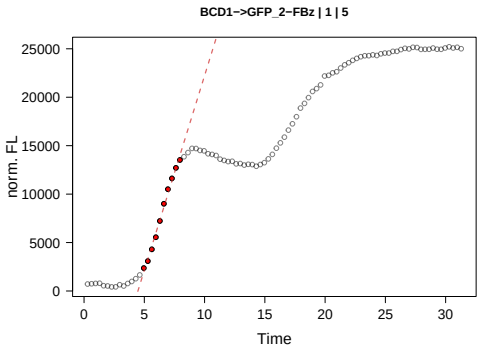
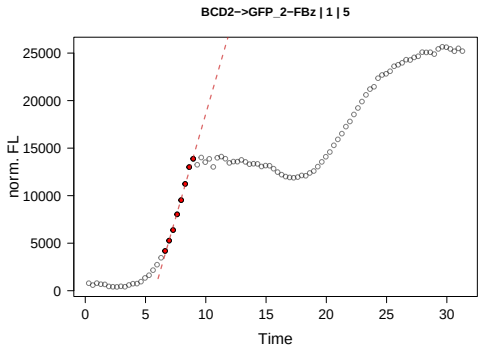
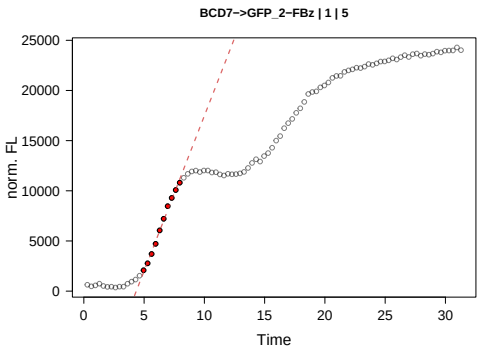
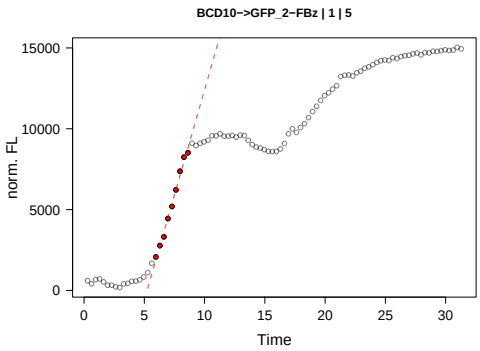
Time


BCD1−>GFP_2−FBz | 1 | 5
norm. FL
Time


BCD2−>GFP_2−FBz | 1 | 5
norm. FL
Time


BCD7−>GFP_2−FBz | 1 | 5
norm. FL
Time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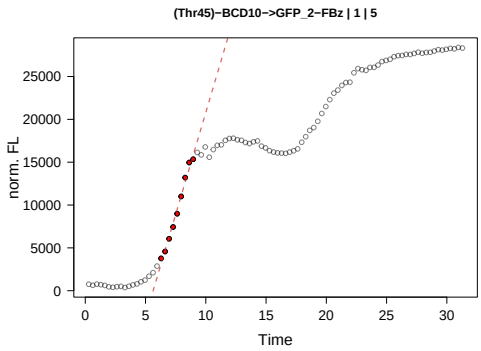
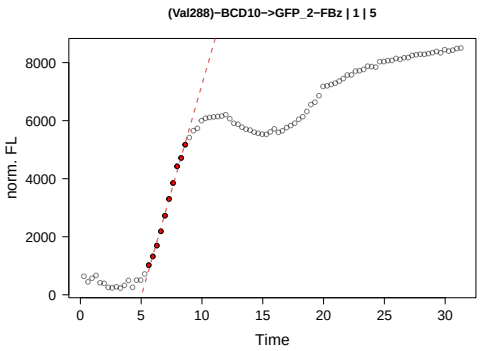
Time


(Thr45)−BCD10−>GFP_2−FBz | 1 | 5
norm. FL
Time


(Val288)−BCD10−>GFP_2−FBz | 1 | 5
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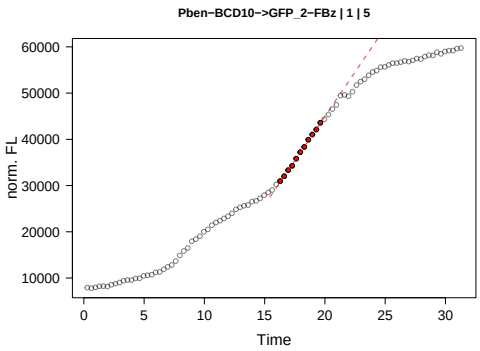
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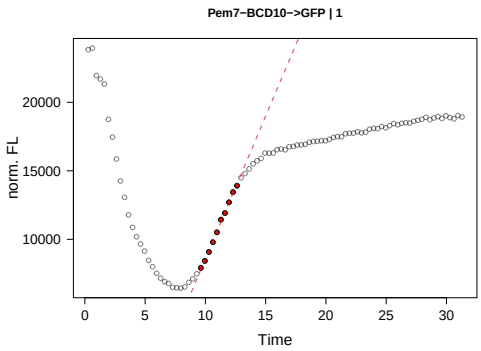
norm. FL
Time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norm. FL
Time