

From Noldus file to Visualisation part 4 : Period Analysis with Biodare

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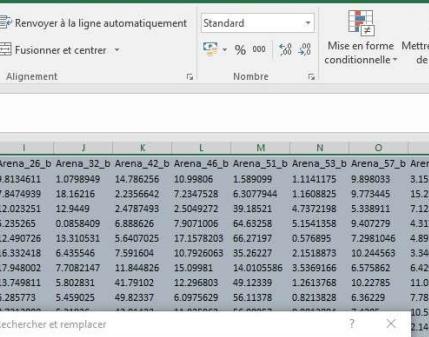
1. INSTRUCTIONS

This is a follow up from From Noldus File to Visualisation part 3 : wakefish

For this example I used the DDopn4xa experiments. It includes 3 independent experiments : PSDD1opn4xa, PSDD2opn4xa and PSDD3opn4xa, that I trimed so they all start at 23:30:00).

2. STEP BY STEP EXAMPLE

1. Prepare a new file for Biodare : Copy your file and change the , to .



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W			
1	23:30:00	23:40:00	14.022132	9.765983	13.766479	12.626033	18.226552	8.2254982	9.8134611	1.0798949	14.7862556	10.988005	1.589099	1.1141175	9.8898033	3.1551924	18.34688376	6.8838758	6.931703	6.6052084	10.697048	4.284344	15.2124896		
2	23:40:00	23:50:00	9.175837	4.310245	10.22117	9.611129	14.6563413	5.7552282	7.8474939	18.16216	2.2356642	7.2347528	6.3077944	1.1608825	9.773445	15.21993	1.5248041	15.95484	8.031913	7.9674722	9.6918123	8.2833275	7.372973		
3	23:50:00	1 day:0:01	4.820909	9.7078506	7.6673208	8.1074241	6.922576	5.2204753	12.023251	12.9449	2.4787493	5.2049272	39.18521	4.7372198	5.338991	7.123138	4.5988716	5.647223	7.820282	0.9648397	4.743328	6.0136942	13.32022		
4	1 day:0:00:01	1 day:0:01	11.502233	9.9226741	12.093567	12.193965	1.2596558	5.4179459	5.235265	0.0858409	6.888626	7.9071006	64.63258	5.1541358	4.407279	4.317614	1.6553026	7.823208	3.6888579	3.172097	8.701932	13.0607941	25.220878		
5	1 day:0:00:01	1 day:0:01	13.1760097	9.164579	10.886045	4.5956195	12.490726	13.310531	5.6407025	17.3578203	66.27197	0.576895	7.2891046	4.897554	3.6871971	7.0726574	12.3787324	11.061174	8.9258116	5.4828212	12.975095				
6	1 day:0:00:01	1 day:0:01	8.376676	6.3979503	13.1760097	9.164579	10.886045	4.5956195	12.490726	13.310531	5.6407025	17.3578203	66.27197	0.576895	7.2891046	4.897554	3.6871971	7.0726574	12.3787324	11.061174	8.9258116	5.4828212	12.975095		
7	1 day:0:00:01	1 day:0:01	14.104097	2.325501	13.907236	14.194804	3.5465843	5.941465	16.332418	6.4355456	7.591604	10.7926063	35.26227	2.1518873	2.045455	3.3401683	1.0956206	2.1621484	4.4988287	9.1973224	3.5823408	13.503842			
8	1 day:0:00:01	1 day:0:01	9.84475	5.8064155	14.274824	11.682547	16.529471	7.866077	17.948002	7.7082147	11.844826	15.09981	14.010586	3.5369166	6.575862	6.4294153	4.5387571	3.0343095	25.869255	10.600345	8.391292	41.21001	22.95512		
9	1 day:0:00:01	1 day:0:01	8.809007	10.19735	8.673881	13.28722	9.322755	4.5398155	13.749811	5.802831	41.79102	12.266803	49.12339	1.2613768	10.22778	11.039001	4.0584084	25.5814915	6.614379	15.862407	7.228035	20.443897			
10	1 day:0:00:01	1 day:0:01	16.752943	13.041302	9.015091	9.538353	24.455147	6.0380747	6.285773	5.459025	9.482337	6.0795629	56.11378	0.8213828	6.36229	7.781916	6.643544	23.57361	6.555239	18.869122	12.232086	16.034354	25.71691		
11	1 day:0:00:01	1 day:0:01	9.1073	4.94644	10.829514	16.147777	29.54317	7.3870643																	
12	1 day:0:00:01	1 day:0:01	14.075768	8.767314	12.409953	18.55174	31.85782	7.292309																	
13	1 day:0:00:01	1 day:0:01	9.450599	8.761856	12.964924	8.754372	24.710011	10.1737686																	
14	1 day:0:00:01	1 day:0:01	14.021285	9.663411	10.553153	31.55086	32.16638	26.7581429																	
15	1 day:0:00:01	1 day:0:01	10.119513	5.3104936	15.344313	35.25221	28.3783421	24.030653																	
16	1 day:0:00:01	1 day:0:01	10.203	10.493887	6.677033	12.75385	25.51048	5.7919669	8.941711																
17	1 day:0:00:01	1 day:0:01	11.606563	8.3545873	12.05048	23.2523	28.755498	10.790284																	
18	1 day:0:00:01	1 day:0:01	12.203	12.445281	10.798244	13.870109	20.383505	18.345802	9.397846																
19	1 day:0:00:01	1 day:0:01	10.3073	9.667574	7.924236	17.422255	21.527954	6.5944216																	
20	1 day:0:00:01	1 day:0:01	16.757934	4.9534941	13.019417	14.160006	12.273618	7.04981																	
21	1 day:0:00:01	1 day:0:01	16.888526	8.706551	12.646911	13.504072	33.80793	15.705511																	
22	1 day:0:00:01	1 day:0:01	3.0073	15.152073	12.873549	14.374364	20.03502	30.57714	11.193457																
23	1 day:0:00:01	1 day:0:01	10.17157	2.083275	2.2831677	9.299639	24.408657	10.448773	11.6852627	23.797853	16.107437	10.099438	6.2179337	23.261331	15.9989	3.7989054	38.13095	17.04067	15.824345	13.189717	38.750865	20.390564			
24	1 day:0:00:01	1 day:0:01	10.20619	16.630684	18.677680	23.810717	18.33315	21.206019	15.990239	9.3639714	20.749669	15.78604	32.991248	4.979954	3.9966467	10.555238	27.35254	17.944341	20.711387	11.5469432	42.84808	32.16283			
25	1 day:0:00:01	1 day:0:01	10.206205	15.473025	9.967634	13.220419	17.588896	36.44404	12.223519	26.774485	10.03107	11.562366	45.214416	13.2999	5.4537451	0.1107001	11.548449	41.64419	7.287254	25.283832	8.8075212	4.9860923	39.367889		
26	1 day:0:00:01	1 day:0:01	9.961652	6.7417294	13.736488	42.842844	35.37973	39.87543	11.2599439	28.96279	6.101972	10.455405	41.306508	6.1899202	8.26832	4.9485738	15.532049	17.7447975	18.398668	16.485297	4.3379037	13.538443	26.183494		
27	1 day:0:00:01	1 day:0:01	3.4013	9.19625	10.5643707	5.3643233	17.88534	9.126439	12.115444	16.917597	21.523809	5.002786	7.592803	8.707429	25.597392	5.8537902	7.1077733	15.443756	38.10337	35.081176	12.91029	26.43155	23.7865892	13.434518	36.56929
28	1 day:0:00:01	1 day:0:01	10.822003	7.910075	14.26703	14.025869	6.1579965	6.556647	41.21079	0	7.15688	14.400182	29.275702	6.2578363	10.256477	8.93264	42.44344	44.398644	17.804009	31.55956	75.67149	25.2506	16.0129749		
29	1 day:0:00:01	1 day:0:01	9.396425	6.789914	16.320604	18.402593	10.2186661	12.307684	32.82126	0.970379	10.0602851	7.8944618	59.565202	4.388912	13.846959	8.0638147	41.86075	30.395828	8.1305004	31.48131	87.42918	32.027941	11.3241101		
30	1 day:0:00:01	1 day:0:01	19.1617947	71.49415	13.554096	14.427329	14.56368	10.084662	5.926253	12.4405524	17.618516	15.269912	78.24315	10.534019	18.59471	2.142579	43.75076	18.855358	7.8190942	20.170644	100.45866	23.20189	7.0359519		
31	1 day:0:00:01	1 day:0:01	12.471696	73.89387	13.892097	13.892097	29.389632	47.64453	10.629818	0	37.89792	21.450686	10.84895	28.6531008	30.690058	19.262794	6.9805962	39.248616	16.862314	5.3696175	88.60518	18.520339	17.487498		

2. Insert a time column in minutes : Insert a new column, put a 0 in the row corresponding to the first time point, in row just below put the formula =cellnumber+10 for 10min means or =cellnumber+60 for 60min means, click and drag the corner of this cell to have a column containing increments of 10 or 60.

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A1 Calibri 11 A A % 000

Options de collage :

	D	E	F	G	H	I	J			
1	sna_03_b	Arena_04_b	Arena_05_b	Arena_16_b	Arena_20_b	Arena_26_b	Arena_32_b			
2	23:07	1430707	8.6979361	7.100477	5.1640046	6.8783	9.818775	6.501019		
3	23:20	398481	7.864424	11.216302	3.9986792	10.506525	6.790402	10.9084894		
4	23:30	65983	13.766479	12.626033	18.226352	8.2254982	9.8134611	1.0798949		
5	23:40	10245	10.22127	9.611129	14.6563413	5.7552282	7.8474939	18.16216		
6	23:50	078506	7.6673208	8.1074241	6.9222576	5.2240753	12.023251	12.9449		
7	1 day. 0:0	226741	12.093567	12.193965	1.2596858	5.4179459	5.235265	0.0858409		
8	1 day. 0:1	979503	13.1760097	9.164579	10.886045	4.5956195	12.490726	13.310531		
9	1 day. 0:2	26501	13.907236	14.194804	3.5465843	5.941465	16.332418	6.435546		
10	1 day. 0:3	064155	14.274824	11.682547	16.529471	7.866077	17.948002	7.7082147		
11	1 day. 0:4	19735	8.673881	13.28722	9.322755	4.5198155	13.749811	5.802831		
12	1 day. 0:5	041302	9.015091	9.558353	24.455147	6.0380747	6.285773	5.459025		
13	1 day. 1:0	4649	10.829614	16.147777	29.54317	7.3870643	8.7212808	5.21936		
14	1 day. 1:1	76314	12.409953	18.55174	31.85782	7.292309	12.3982957	3.3660809		
15	1 day. 1:2	61856	12.964924	8.754372	24.710011	10.1737686	24.76891	6.2673912		
16	1 day. 1:3	63411	10.553153	31.55086	32.16636	26.7581429	22.423964	7.227284		
17	1 day. 1:4	104936	15.344313	35.25221	28.3783421	24.030653	11.10594	10.159133		
18	1 day. 1:50	1 day. 2:00:0	10.493687	6.677033	12.75385	25.51048	5.7919669	8.941711	11.150576	0
19	1 day. 2:00:0	1 day. 2:10:0	11.606563	3.8545873	12.050438	23.2523	28.755498	10.790284	9.738874	1.7114713
20	1 day. 2:10:0	1 day. 2:20:0	12.445281	10.798244	13.870109	20.383501	18.345802	9.397846	18.417663	10.693945
21	1 day. 2:20:0	1 day. 2:30:0	10.967574	57.7505	7.924236	17.422255	21.529754	6.9844216	13.627584	2.3392237
22	1 day. 2:30:0	1 day. 2:40:0	16.578934	4.9534841	13.019417	14.160064	17.236118	7.04981	11.1872609	8.545174
23	1 day. 2:40:0	1 day. 2:50:0	16.888526	8.706561	12.646911	13.500472	33.80792	14.750511	22.824686	18.877795

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A3 =A2+10

	B	C	D	E	F	G	H	I	J	K		
1			DD1Arena_0	Arena_03_b	Arena_04_b	Arena_05_b	Arena_16_b	Arena_20_b	Arena_26_b	Arena_32_b		
2	0	23:00:00	23:20:00	7.186226	12.1430707	8.6979361	7.100477	5.1640046	6.8783	9.818775	6.501019	
3	=A2+10	23:20:00	23:30:00	11.4214854	2.6398481	7.864424	11.216302	3.9986792	10.506525	6.790402	10.9084894	
4			23:30:00	23:40:00	14.022132	9.765983	13.766479	12.626033	8.2254982	9.8134611	1.0798949	
5			23:40:00	23:50:00	9.175837	4.310245	10.22127	9.611129	14.6563413	5.7552282	7.8474939	18.16216
6			23:50:00	1 day. 0:00:0	4.820909	9.078506	7.6673208	8.1074241	6.9222576	5.2240753	12.023251	12.9449
7			1 day. 0:00:0	1 day. 0:10:0	11.502223	0.9226741	12.093567	12.193965	1.2596858	5.4179459	5.235265	0.0858409
8			1 day. 0:10:0	1 day. 0:20:0	8.376679	6.3979503	13.1760097	9.164579	10.886045	4.5956195	12.490726	13.310531
9			1 day. 0:20:0	1 day. 0:30:0	14.10497	2.326501	13.907236	14.194804	3.5465843	5.941465	16.332418	6.435546
10			1 day. 0:30:0	1 day. 0:40:0	9.84475	5.6064155	14.274824	11.682547	16.529471	7.866077	17.948002	7.7082147
11			1 day. 0:40:0	1 day. 0:50:0	8.909075	10.19735	8.673881	13.28722	9.322755	4.5198155	13.749811	5.802831
12			1 day. 0:50:0	1 day. 1:00:0	16.752943	13.041302	9.015091	9.558353	24.455147	6.0380747	6.285773	5.459025
13			1 day. 1:00:0	1 day. 1:10:0	9.416641	4.94649	10.829614	16.147777	29.54317	7.3870643	8.7212808	5.21936
14			1 day. 1:10:0	1 day. 1:20:0	14.407368	8.8766314	12.409953	18.55174	31.85782	7.292309	12.3982957	3.3660809
15			1 day. 1:20:0	1 day. 1:30:0	9.450593	8.761856	12.964924	8.754372	24.710011	10.1737686	24.76891	6.2673912
16			1 day. 1:30:0	1 day. 1:40:0	14.012185	9.663411	10.553153	31.55086	32.16636	26.7581429	22.423964	7.227284
17			1 day. 1:40:0	1 day. 1:50:0	10.119513	5.3104936	15.344313	35.25221	28.3783421	24.030653	11.10594	10.159133
18			1 day. 1:50:0	1 day. 2:00:0	10.493687	6.677033	12.75385	25.51048	5.7919669	8.941711	11.150576	
19			1 day. 2:00:0	1 day. 2:10:0	11.606563	3.8545873	12.050438	23.2523	28.755498	10.790284	9.738874	1.7114713
20			1 day. 2:10:0	1 day. 2:20:0	12.445281	10.798244	13.870109	20.383501	18.345802	9.397846	18.417663	10.693945
21			1 day. 2:20:0	1 day. 2:30:0	10.967574	57.7505	7.924236	17.422255	21.529754	6.9844216	13.627584	2.3392237
22			1 day. 2:30:0	1 day. 2:40:0	16.578934	4.9534841	13.019417	14.160064	17.236118	7.04981	11.1872609	8.545174
23			1 day. 2:40:0	1 day. 2:50:0	16.888526	8.706561	12.646911	13.500472	33.80792	14.750511	22.824686	18.877795

Screenshot of Microsoft Excel showing a table with data from row 1 to 22. The table has columns A through K. Row 1 contains column headers. Rows 2 and 3 contain numerical values. Rows 4 through 22 contain time intervals and corresponding numerical values.

	A	B	C	D	E	F	G	H	I	J	K
1				DD1Arena_0 Arena_03_b	Arena_04_b	Arena_05_b	Arena_16_b	Arena_20_b	Arena_26_b	Arena_32_b	
2	0	23:10:00	23:20:00	7.186226	12.1430707	8.6979361	7.100477	5.1640046	6.8783	9.818775	6.501019
3	10	23:20:00	23:30:00	11.4214854	2.6398481	7.864424	11.216302	3.9986792	10.506525	6.790402	10.9084894
4		23:30:00	23:40:00	14.022132	9.765983	13.766479	12.626033	18.226352	8.2254982	9.8134611	1.0798949
5		23:40:00	23:50:00	9.175837	4.310245	10.22127	9.611129	14.6563413	5.7552282	7.8474939	18.16216
6		23:50:00	1 day: 0:00:0	4.820909	9.7078506	7.6673208	8.1074241	6.9222576	5.2240753	12.023251	12.9449
7		1 day: 0:00:0	1 day: 0:10:0	11.502223	0.9226741	12.093567	12.193965	1.2596858	5.4179459	5.235265	0.0858409
8		1 day: 0:10:0	1 day: 0:20:0	8.376679	6.3979503	13.1760097	9.164579	10.886045	4.5956195	12.490726	13.310531
9		1 day: 0:20:0	1 day: 0:30:0	14.10497	2.326501	13.907236	14.194804	3.5465843	5.941465	16.332418	6.435546
10		1 day: 0:30:0	1 day: 0:40:0	9.84475	5.6064155	14.274824	11.682547	16.529471	7.866077	17.948002	7.7082147
11		1 day: 0:40:0	1 day: 0:50:0	8.9090075	10.19735	8.673881	13.28722	9.322755	4.5198155	13.749811	5.802831
12		1 day: 0:50:0	1 day: 1:00:0	16.752943	13.041302	9.015091	9.558353	24.455147	6.0380747	6.285773	5.459025
13		1 day: 1:00:0	1 day: 1:10:0	9.416641	4.94649	10.829614	16.147777	29.54317	7.3870643	8.7212808	5.21936
14		1 day: 1:10:0	1 day: 1:20:0	14.407368	8.876314	12.409953	18.55174	31.85782	7.292309	12.3982957	3.3660809
15		1 day: 1:20:0	1 day: 1:30:0	9.450593	8.761856	12.964924	8.754372	24.710011	10.1737686	24.76891	6.2673912
16		1 day: 1:30:0	1 day: 1:40:0	14.012185	9.663411	10.553153	31.55086	32.16636	26.7581429	22.423964	7.227284
17		1 day: 1:40:0	1 day: 1:50:0	10.119513	5.3104936	15.344313	35.25221	28.3783421	24.030653	11.10594	10.159133
18		1 day: 1:50:0	1 day: 2:00:0	10.493687	6.677033	12.75385	25.51048	5.7919669	8.941711	11.150576	
19		1 day: 2:00:0	1 day: 2:10:0	11.606563	3.8545873	12.050438	23.2523	28.755498	10.790284	9.738874	1.7114713
20		1 day: 2:10:0	1 day: 2:20:0	12.445281	10.798244	13.870109	20.383501	18.345802	9.397846	18.417663	10.693945
21		1 day: 2:20:0	1 day: 2:30:0	10.967574	57.7505	7.924236	17.422255	21.529754	6.9844216	13.627584	2.3392237
22		1 day: 2:30:0	1 day: 2:40:0	16.578934	4.9534841	13.019417	14.160064	17.236118	7.04981	11.1872609	8.545174
23		1 day: 2:40:0	1 day: 2:50:0	16.888526	8.70561	12.646911	13.500472	33.80792	14.750511	22.824686	18.877795

Screenshot of Microsoft Excel showing a table with data from row 1 to 23. The table has columns A through K. Row 1 contains column headers. Rows 2 and 3 contain numerical values. Rows 4 through 23 contain time intervals and corresponding numerical values.

	A	B	C	D	E	F	G	H	I	J	K
1				DD1Arena_0 Arena_03_b	Arena_04_b	Arena_05_b	Arena_16_b	Arena_20_b	Arena_26_b	Arena_32_b	
2	0	23:10:00	23:20:00	7.186226	12.1430707	8.6979361	7.100477	5.1640046	6.8783	9.818775	6.501019
3	10	23:20:00	23:30:00	11.4214854	2.6398481	7.864424	11.216302	3.9986792	10.506525	6.790402	10.9084894
4	20	23:30:00	23:40:00	14.022132	9.765983	13.766479	12.626033	18.226352	8.2254982	9.8134611	1.0798949
5	30	23:40:00	23:50:00	9.175837	4.310245	10.22127	9.611129	14.6563413	5.7552282	7.8474939	18.16216
6	40	23:50:00	1 day: 0:00:0	4.820909	9.7078506	7.6673208	8.1074241	6.9222576	5.2240753	12.023251	12.9449
7	50	1 day: 0:00:0	1 day: 0:10:0	11.502223	0.9226741	12.093567	12.193965	1.2596858	5.4179459	5.235265	0.0858409
8	60	1 day: 0:10:0	1 day: 0:20:0	8.376679	6.3979503	13.1760097	9.164579	10.886045	4.5956195	12.490726	13.310531
9	70	1 day: 0:20:0	1 day: 0:30:0	14.10497	2.326501	13.907236	14.194804	3.5465843	5.941465	16.332418	6.435546
10	80	1 day: 0:30:0	1 day: 0:40:0	9.84475	5.6064155	14.274824	11.682547	16.529471	7.866077	17.948002	7.7082147
11	90	1 day: 0:40:0	1 day: 0:50:0	8.9090075	10.19735	8.673881	13.28722	9.322755	4.5198155	13.749811	5.802831
12	100	1 day: 0:50:0	1 day: 1:00:0	16.752943	13.041302	9.015091	9.558353	24.455147	6.0380747	6.285773	5.459025
13	110	1 day: 1:00:0	1 day: 1:10:0	9.416641	4.94649	10.829614	16.147777	29.54317	7.3870643	8.7212808	5.21936
14	120	1 day: 1:10:0	1 day: 1:20:0	14.407368	8.876314	12.409953	18.55174	31.85782	7.292309	12.3982957	3.3660809
15	130	1 day: 1:20:0	1 day: 1:30:0	9.450593	8.761856	12.964924	8.754372	24.710011	10.1737686	24.76891	6.2673912
16	140	1 day: 1:30:0	1 day: 1:40:0	14.012185	9.663411	10.553153	31.55086	32.16636	26.7581429	22.423964	7.227284
17	150	1 day: 1:40:0	1 day: 1:50:0	10.119513	5.3104936	15.344313	35.25221	28.3783421	24.030653	11.10594	10.159133
18	160	1 day: 1:50:0	1 day: 2:00:0	10.493687	6.677033	12.75385	25.51048	5.7919669	8.941711	11.150576	
19	170	1 day: 2:00:0	1 day: 2:10:0	11.606563	3.8545873	12.050438	23.2523	28.755498	10.790284	9.738874	1.7114713
20	180	1 day: 2:10:0	1 day: 2:20:0	12.445281	10.798244	13.870109	20.383501	18.345802	9.397846	18.417663	10.693945
21	190	1 day: 2:20:0	1 day: 2:30:0	10.967574	57.7505	7.924236	17.422255	21.529754	6.9844216	13.627584	2.3392237
22	200	1 day: 2:30:0	1 day: 2:40:0	16.578934	4.9534841	13.019417	14.160064	17.236118	7.04981	11.1872609	8.545174
23	210	1 day: 2:40:0	1 day: 2:50:0	16.888526	8.70561	12.646911	13.500472	33.80792	14.750511	22.824686	18.877795

3. Login in Biodare : biodare2.ed.ac.uk/ (biodare2.ed.ac.uk/)

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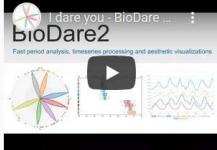
BioDare2

Fast period analysis, timeseries processing and aesthetic visualizations

[Register »](#)

Welcome to BioDare2

BioDare2 is a repository for circadian, biological data, providing a platform for data sharing and period analysis. The main features of **BioDare2** are: fast period analysis, timeseries processing, attractive visualizations, simple data description and modern UI, all of it to assure the best user experience.



Watch our introductory video and subscribe to our channel for training materials.

You can contact us at: biodare@ed.ac.uk

You need a modern, up to date browser to use **BioDare2** (we are testing it with Chrome).

BioDare2 is currently at **beta** version. Check the bottom of the page how this early stage may affect you.

Public datasets

- Multiple dataset are publicly available [here](#).
- All data become public after the maximum 3 years embargo period

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4. Create a new experiment : (1) click on New Experiment , (2) fill the name of your experiment and (3) fill the description, (4) don't forget to click on Accept

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Create experiment

1

Name * 2

Good name hints the data content

Purpose/Hypothesis * 3

test period and phase of wild type and mutant larvae kept in constant darkness for 4 days

Sensible description with more than few words is required

Description

Comments

4

Exp. execution date *
10/11/2021

Accept Cancel

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5. Biological Details : (1) specify Danio rerio in Species , (2) specify Behaviour in Data category , (3) don't forget to click on Accept , (4) change the Authors if needed

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Biological details

Species * Danio rerio 1

Please email us if you don't see suitable terms in the value lists

Data category * Behaviour (e.g. wheel running) 2

Please email us if you don't see suitable terms in the value lists

Accept Cancel 3

Contributions 4

Authors

Elise Cau 3

Name * Clair Surname * Chaigne 4

New Author New Curator

Institutions

University of Toulouse 3

Institution * Add Institution 4

Funder * Grant Add Funding

Accept Cancel

5. Upload data file : upload your data file

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Experiment: 20614
DDopn4xa

Purpose: test period and phase of wild type and mutant larvae kept in constant darkness for 4 days

Authors: Elise Cau,

Data category: Behaviour (e.g. wheel running)

◀ ▶ Overview Edit Import data Files

1 Upload data file

Time series file

File Format * Excel Table

An Excel file in which one column contains time values while other columns contain measurements taken at the corresponding times.
 • Time can be represented as: hours from start (e.g. 2.25 for measurement at 2 hours 15 minutes after the start), minutes from start, seconds from start, or as image nr (1-based) which will be converted to time using interval between images.
 • Not all columns have to be imported.
 • First few rows can contain arbitrary text.
 • Values from one row can be used as data labels.

Drag file(s) or click to select

6. Data layout : specify Manually label

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Authors: Elise Cau,
Data category: Behaviour (e.g. wheel running)

Import data

Upload data file

2 Data layout

Excel Table: DDopn4xa_DD1-DD2-DD3_biodare.xlsx
Time series in columns

Data in rows Data in columns
 Import labels from row Manually label
 No noise data Background noise in columns

Back Next

3 Define time column

4 Label data

5 Import timeseries

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7. Define time column : specify time in minutes and make sure the first time point is correct (here in dark pink)

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3 Define time column

Excel Table: DDopn4xa_DD1-DD2-DD3_biodare.xlsx
Time series in columns

Times in column A; First time point: 0 m [A:2]
Time unit * time in minutes

Time offset 0

Click on the first timepoint in the time column and then select a time unit.

	A	B	C	D	E	F	G	H
1			DD1Arena_02_b	Arena_03_b	Arena_04_b	Arena_05_b	Arer	
2	0	0.9791666666666666	0.9861111111111112	14.022132	9.765983	13.766479	12.626033	18.2
3	10	0.9861111111111112	0.9930555555555555	9.175837	4.310245	10.22127	9.611129	14.6
4	20	0.9930555555555555	1 day, 0:00:00	4.820909	9.7078506	7.6673208	8.1074241	6.92
5	30	1 day, 0:00:00	1 day, 0:10:00	11.502223	0.9226741	12.093567	12.193965	1.25

Taper ici pour rechercher 7°C Nuageux 12:03 10/11/2021

8. Label data : To label your data (wild type, mutants...), select the columns you want and specify the label. Do so for each label. At the end your data should look like a rainbow.

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4 Label data

Excel Table: DDopn4xa_DD1-DD2-DD3_biodare.xlsx

Time series in columns

First time point: 0 m [A:2]

Columns per page 100 1 – 100 of 141

Labels	A	B	C	D	E	F	G	H
Time								
1				DD1Arena_02_b	Arena_03_b	Arena_04_b	Arena_05_b	Arena_06_b
2	0	0.9791666666666666	0.9861111111111112	14.022132	9.765983	13.766479	12.626033	18.226
3	10	0.9861111111111112	0.9930555555555555	9.175837	4.310245	10.22127	9.611129	14.656
4	20	0.9930555555555555	1 day, 0:00:00	4.820909	9.7078506	7.6673208	8.1074241	6.9222
5	30	1 day, 0:00:00	1 day, 0:10:00	11.502223	0.9226741	12.093567	12.193965	1.2596
6	40	1 day, 0:10:00	1 day, 0:20:00	8.376679	6.9379503	13.1760097	9.164579	10.686
7	50	1 day, 0:20:00	1 day, 0:30:00	14.10497	2.326501	13.907236	14.194804	3.5465
8	60	1 day, 0:30:00	1 day, 0:40:00	9.84475	5.6064155	14.274824	11.682547	16.525
9	70	1 day, 0:40:00	1 day, 0:50:00	8.9090075	10.19735	8.673881	13.28722	9.3227
10	80	1 day, 0:50:00	1 day, 1:00:00	16.752943	13.041302	9.015091	9.558353	24.455

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4 Label data

Excel Table: DDopn4xa_DD1-DD2-DD3_biodare.xlsx

Time series in columns

First time point: 0 m [A:2]

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Labels	U	V	Z	AA	AB
1	a_76_b	Arena_86_b	DD1wt	DD1wt	DD1wt
2	1703	6.6062084	10.65	706564	7.1004278
3	1913	7.9674722	9.691	77603	4.7621957
4	31282	0.9648397	4.743328	6.0136942	13.32022
5	38579	3.172097	8.701932	13.0607941	25.220878
6	37324	11.061174	8.9258116	5.4828212	12.975095
7	3164	4.4968287	9.1973224	3.5823408	13.50342
8	39255	10.600345	8.391229	41.21001	22.93512
9	24062	8.614379	15.862407	7.2280351	20.443897
10	5235	18.869122	12.232086	16.034354	25.71691

Label columns

Write label for columns D-U

DD1wt

Pressing Enter submits

Cancel Clear Assign

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Define time column

4 Label data

Excel Table: DDopn4xa_DD1-DD2-DD3_biodare.xlsx

Time series in columns

First time point: 0 m [A:2]

	V	DX	DY	DZ	EA	EB	EC	ED	EE
Labels	DD1mut	DD3mut	DD3mut	DD3mut	DD3mut	DD3mut	DD3mut		
1	Arena_69_b	Arena_72_b	Arena_76_b	Arena_85_b	Arena_89_b	Arena_92_b	Arena_93_b	65wt	65m
2	009003	7.677882	8.0631908	13.37131	6.4385575	8.7443553	21.83017	7.72410686615385	8.90
3	8.0438483	1.4049098	2.3252596	13.960627	9.519974	8.167134	32.642608	7.46948540461538	8.75
4	1.2124536	25.06164	1.6002051	6.4021039	5.5151295	10.648662	30.67169	7.52324273846154	9.15
5	5529886	0.596764	3.848661	8.8835129	11.115088	6.865054	19.3296036	8.45456344307692	9.85
6	523836	2.931152	8.990793	1.8283408	5.747123	9.215652	16.2045056	8.88536243230769	10.6
7	8520189	4.2096505	11.401539	11.721246	13.867307	7.629539	31.717098	9.33096343384615	12.6
8	7178391	7.8443109	12.340993	8.453248	12.4822557	5.963532	21.883317	12.13005526	13.1

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9. Import timeseries : Make sure you have all your labels, you can now import the data.

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<> Overview Edit Import data Files

Upload data file

Data layout

Define time column

Label data

5 Import timeseries

Excel Table: DDopn4xa_DD1-DD2-DD3_biodare.xlsx

Time series in columns

First time point: 0 m [A:2]

Selected Labels: DD1wt, DD2wt, DD3wt, DD1mut, DD2mut, DD3mut

You can now import the timeseries

Back Import data

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10. Period analysis : for period calculation, I use the default Data window and Expected periods, for Input Data I select baseline dtr and for Analysis Method I use the FFT-NLLS .

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Experiment: 20614 DDopn4xa

Purpose: test period and phase of wild type and mutant larvae kept in constant darkness for 4 days

Authors: Elise Cau,

Data category: Behaviour (e.g. wheel running)

Overview Edit Show data Heatmap Period analysis Rhythmicity Replace data Files

Start period analysis

Data window from: 0 to: 0

Input Data baseline dtr

Expected periods from: 18 to: 34

Analysis Method FFT NLLS

Series per page 50 1 – 50 of 130 < >

Analyse

1.

11. Download the period analysis : (1) click on the arrow next to your analysis, (2) click on export

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DDopn4xa

Purpose: test period and phase of wild type and mutant larvae kept in constant darkness for 4 days

Authors: Elise Cau,

Data category: Behaviour (e.g. wheel running)

Overview Edit Show data Heatmap Period analysis Rhythmicity Replace data Files

Period analyses

Submitted jobs: 1

New analysis Refresh

Export job results

Phase type by fit

Download all

Cancel Export

Options explained

Phase type ? Phase unit ?

Display Expand all

1d540d94 NLLS (Nov 10, 2021) FINISHED

baseline dtr min-max p(18.0-34.0) 6 results needs attention

Select periods

1 2

12. Convert your file : (1) select the first column, (2) click on Convertir

20614_job1d540d94-8271-462c-98ae-6cf2e79da6e1.ppa [Lecture seule] - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Experiment	ID,20614,0,													
2	Experiment	name,DDopn4xa,													
3	Job,1d540d94-8271-462c-98ae-6cf2e79da6e1,														
4	Submitted,2021-11-10T11:10:26.675787836,Finished,2021-11-10T11:10:29.404659200,														
5	Method,FFT NLLS,														
6	Params,baseLine dtr min-max p(18.0-34.0),														
7	WARNING some results still need manual selection to be included in the summary stats,														
8															
9															
10	Summary statistics,														
11	Phase/Amp tude method,by fit,														
12															
13	Group Label,N,,Period,Period Std,,Circ. Phase To Zero,Circ. Phase To Window,Circ. Phase Std,Abs Phase To Zero,Abs Phase Std,,Amplitude,Amplitude Std,,GOF,ERR,														
14	DD1wt,18,,2,04,1.39,,4.97,4.97,2.48,5.22,5.22,2.06,,4.5,2.12,,0.92,0.48,														
15	DD2wt,22,,2,07,1.38,,5.34,5.34,1.53,5.5,5.5,1.31,,4.93,2.17,,0.93,0.45,														
16	DD3wt,24,,2,05,1.57,,5.99,5.99,1.96,6.16,6.16,1.92,,2.64,0.71,,0.93,0.44,														
17	DD1mut,18,,25.14,1.38,,4.97,4.97,2.14,5.1,5.1,2.01,,5.1,3.02,,0.91,0.47,														
18	DD2mut,22,,24.88,1.2,,5.49,5.49,1.74,5.61,5.61,1.6,,5.95,3.18,,0.91,0.44,														
19	DD3mut,20,,26.07,1.96,,5.26,5.26,2.37,5.57,5.57,2.29,,2.75,1.11,,0.92,0.45,														
20															
21	Individual Results,														
22	Phase/Amp tude method,by fit,														
23															
24	Data Ref,Data Label,Status,,Period,Period Err,,Circ. Phase To Zero,Circ. Phase To Window,Circ. Phase Err,Abs Phase To Zero,Abs Phase To Window,Abs Phase Err,,Amplitude,Amplitude Err,,GOF,ERR,														
25	1. [D2],DD1wt,,24.09,1.41,,8.38,8.38,2.24,8.41,8.41,2.25,,2.92,1.175,,0.93,0.4,														
26	2. [E2],DD1wt,,24.26,1.92,,5.85,5.85,4.81,5.91,5.91,4.86,,5.56,3.098,,0.95,0.56,														
27	3. [F2],DD1wt,,25.43,1.09,,5.39,5.39,2.03,5.71,5.71,2.15,,5.09,1.582,,0.89,0.31,														
28	4. [G2],DD1wt,,27.74,1.23,,3.63,3.63,1.97,4.19,4.19,2.27,,2.46,1.045,,0.95,0.42,														
29	5. [H2],DD1wt,,23.46,1.14,,5.9,5.9,2.34,5.77,5.77,2.29,,3.84,1.823,,0.96,0.47,														
30	6. [I2],DD1wt,,25.08,2.15,,4.66,4.66,5.1,4.87,4.87,5.32,,2.45,1.456,,0.93,0.59,														
31	7. [J2],DD1wt,,23.65,0.77,,6.42,6.42,2.01,6.33,6.33,1.98,,6.31,1.982,,0.88,0.31,														
32	8. [K2],DD1wt,,25.41,2.17,,5.54,5.54,3.21,5.87,5.87,3.4,,4.1,2.694,,0.93,0.64,														
33	9. [L2],DD1wt,,27.6,2.82,,22.15,22.15,2.79,25.47,25.47,3.21,,2.31,1.657,,0.91,0.71,														
34	10. [M2],DD1wt,,25.35,2.33,,4.36,4.36,4.49,4.6,4.6,4.74,,1.82,1.238,,0.96,0.68,														
35	11. [N2],DD1wt,,27.14,1.88,,2.71,2.71,2.14,3.07,3.07,2.42,,4.84,2.157,,1.0,0.45,														
36	12. [O2],DD1wt,,25.79,1.33,,4.57,4.57,2.51,4.91,4.91,2.69,,3.99,1.442,,0.86,0.35,														
37	13. [P2],DD1wt,,25.19,2.49,,1.09,1.09,5.28,1.14,1.14,5.54,,2.37,1.718,,0.96,0.72,														
38	14. [Q2],DD1wt,,24.45,1.26,,6.81,6.81,2.48,6.94,6.94,2.53,,4.29,1.688,,0.91,0.39,														

13. Convert your file suite : click on Delimité , then (1) select Virgule , and you should end with a correct file containing several columns

Fichier Accueil Insertion Mise en page Formules Données Révision Affichage Développeur Dites-nous ce que vous voulez faire.

Afficher les requêtes Connexions Effacer
À partir d'un tableau Propriétés Réappliquer Nouvelle requête Sources récentes Actualiser tout Trier Filtrer Trier et filtrez Connexions Connexions Trier et filtrer Convertir Remplissage instantané Supprimer les doublons Validation des données Outils de do

A1 Experiment ID,20614.0,

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Experiment ID,20614.0,													
2	Experiment name,DDopn4xa,													
3	Job,1d540d94-8271-462c-98ae-6cf2e79da6e1,													
4	Submitted,2021-11-10T11:10:26.675787836,Finished,2021-11-10T11:10:29.404659200,													
5	Method,FFT NLLS,													
6	Params,baseline dtr min-max p(18.0-34.0),													
7	WARNING some results still need manual selection to be included in the summary st													
8														
9														
10	Summary statistics,													
11	Phase/Amplitude method,by fit,													
12														
13	Group Label,N,,Period,Period Std,,Circ. Phase To Zero,Circ. Phase To Window,Circ. Ph													
14	DD1wt,,25.04.1.39,,4.97,4.97,2.48,5.22,5.22,2.06,,4.5,2.12,,0.92,0.48,													
15	DD2wt,,25.07,1.38,,5.34,5.34,1.53,5.5,5.5,1.31,,4.93,2.17,,0.93,0.45,													
16	DD3wt,,25.05,1.57,,5.99,5.99,1.96,6.16,6.16,1.92,,2.64,0.71,,0.93,0.44,													
17	DD1mut,,25.14,1.38,,4.97,4.97,2.14,5.1,5.1,2.01,,5.1,3.02,,0.91,0.47,													
18	DD2mut,,24.88,1.2,,5.49,5.49,1.74,5.61,5.61,1.6,,5.95,3.18,,0.91,0.44,													
19	DD3mut,,26.07,1.96,,5.26,5.26,2.37,5.57,5.57,2.29,,2.75,1.11,,0.92,0.45,													
20														
21	Individual Results,													
22	Phase/Amplitude method,by fit,													
23														
24	Data Ref,Data Label,Status,,Period,Period Err,,Circ. Phase To Zero,Circ. Phase To Wind													
25	1. [D2],DD1wt,,24.09,1.41,,8.38,8.38,2.24,8.41,8.41,2.25,,2.92,1.175,,0.93,0.4,													
26	2. [E2],DD1wt,,24.26,1.92,,5.85,5.85,4.81,5.91,5.91,4.86,,5.56,3.098,,0.95,0.56,													
27	3. [F2],DD1wt,,25.43,1.09,,5.39,5.39,2.03,5.71,5.71,2.15,,5.09,1.582,,0.89,0.31,													
28	4. [G2],DD1wt,,27.74,1.23,,3.63,3.63,1.97,4.19,4.19,2.27,,2.46,1.045,,0.95,0.42,													
29	5. [H2],DD1wt,,23.46,1.14,,5.9,5.9,2.34,5.77,5.77,2.29,,3.84,1.823,,0.96,0.47,													
30	6. [I2],DD1wt,,25.08,2.15,,4.66,4.66,5.1,4.87,4.87,5.32,,2.45,1.456,,0.93,0.59,													
31	7. [J2],DD1wt,,23.65,0.77,,6.42,6.42,2.01,6.33,6.33,1.98,,6.31,1.982,,0.88,0.31,													
32	8. [K2],DD1wt,,25.41,2.17,,5.54,5.54,3.21,5.87,5.87,3.4,,4.1,2.694,,0.93,0.64,													
33	9. [L2],DD1wt,,27.6,2.82,,22.15,22.15,2.79,25.47,25.47,3.21,,2.31,1.657,,0.91,0.71,													
34	10. [M2],DD1wt,,25.35,2.33,,4.36,4.36,4.49,4.6,4.6,4.74,,1.82,1.238,,0.96,0.68,													
35	11. [N2],DD1wt,,27.14,1.88,,2.71,2.71,2.14,3.07,3.07,2.42,,4.84,2.157,,1.0,0.45,													
36	12. [O2],DD1wt,,25.79,1.33,,4.57,4.57,2.51,4.91,4.91,2.69,,3.99,1.442,,0.86,0.35,													
37	13. [P2],DD1wt,,25.19,2.49,,1.09,1.09,5.28,1.14,1.14,5.54,,2.37,1.718,,0.96,0.72,													
38	14. [Q2],DD1wt,,24.45,1.26,,6.81,6.81,2.48,6.94,6.94,2.53,,4.29,1.688,,0.91,0.39,													

Assistant Conversion - Étape 1 sur 3

L'Assistant Texte a déterminé que vos données sont de type Délimité.
Si ce choix vous convient, choisissez Suivant, sinon choisissez le type de données qui décrit le mieux vos données.

Type de données d'origine

Choisissez le type de fichier qui décrit le mieux vos données :

- Délimité - Des caractères tels que des virgules ou des tabulations séparent chaque champ.
- Largeur fixe - Les champs sont alignés en colonnes et séparés par des espaces.

Aperçu des données sélectionnées :

```
1 Experiment ID,20614.0,
2 Experiment name,DDopn4xa,
3 Job,1d540d94-8271-462c-98ae-6cf2e79da6e1,
4 Submitted,2021-11-10T11:10:26.675787836,Finished,2021-11-10T11:10:29.404659200,
5 Method,FFT NLLS,
```

Annuler < Précédent Suivant > Terminer

Screenshot of Microsoft Excel showing the "Assistant Conversion - Étape 2 sur 3" dialog box. The dialog is used to choose delimiters for importing data from a CSV file. The "Séparateurs" section has the "Virgule" checkbox selected. A pink arrow labeled "1" points to this checkbox. Another pink arrow labeled "2" points to the "Suivant >" button at the bottom right of the dialog.

The Excel spreadsheet contains experimental data with the following header:

```
A1: Experiment ID,20614.0,
A2: Experiment name,DDopn4xa,
A3: Job,1d540d94-8271-462c-98ae-6cf2e79da6e1,
A4: Submitted,2021-11-10T11:10:26.675787836,Finished,2021-11-10T11:10:29.404659200,
```

The data includes summary statistics and individual results. The "Individual Results" section starts with:

```
A10: Summary statistics,
A11: Phase/Amplitude method,by fit,
```

The "Individual Results" section contains many rows of numerical data, such as:

```
A13: Group Label,N,,Period,Period Std.,Circ. Phase To Zero,Circ. Phase To Window,Circ. Ph
A14: DD1wt,,21.04,1.39,,4.97,4.97,2.48,5.22,5.22,2.06,,4.5,2.12,,0.92,0.48,
A15: DD2wt,,21.07,1.38,,5.34,5.34,1.53,5.5,5.5,1.31,,4.93,2.17,,0.93,0.45,
A16: DD3wt,,21.05,1.57,,5.99,5.99,1.96,6.16,6.16,1.92,,2.64,0.71,,0.93,0.44,
```

Screenshot of Microsoft Excel showing the "Assistant Conversion - Étape 3 sur 3" dialog box over a data sheet.

Excel ribbon tabs: Fichier, Accueil, Insertion, Mise en page, Formules, Données, Révision, Affichage, Développeur, Dites-nous ce que vous voulez faire.

Données tab icons: Access, Web, Fichier, Autres sources, Connexions existantes, Nouvelle requête, Sources récentes, Récupérer et transformer, Actualiser tout, Connexions, Trier, Filtrer, Réappliquer, Avancé, Trier et filtrer, Connexions.

Connexions tab icons: Connexions, Propriétés, Modifier les liens, Effacer, Remplissage instantané, Supprimer les doublons.

Data Sheet (A1 to M38):

```

A1: Experiment ID,20614.0,
B1: D,20614.0,
C1: Experiment name,DDopn4xa,
D1: Job,1d540d91-8271-462c-98ae-6cf2e79da6e1,
E1: Submitted,2021-11-10T11:10:26.675787836,Finished,2021-11-10T11:10:29.404659200,
F1: Method,FFT NLLS,
G1: Params,baseline dtr min-max p(18.0-34.0),
H1: WARNING some results still need manual selection to be included in the summary st
I1: 
J1: 
K1: 
L1: 
M1: 

A13: Group Label,N,,Period,Period Std.,Circ. Phase To Zero,Circ. Phase To Window,Circ. Ph
A14: DD1wt,18,,21.04,1.39,,4.97,4.97,2.48,5.22,5.22,2.06,,4.5,2.12,,0.92,0.48,
A15: DD2wt,22,,21.07,1.38,,5.34,5.34,1.53,5.5,5.5,1.31,,4.93,2.17,,0.93,0.45,
A16: DD3wt,24,,21.05,1.57,,5.99,5.99,1.96,6.16,6.16,1.92,,2.64,0.71,,0.93,0.44,
A17: DD1mut,18,,25.14,1.38,,4.97,4.97,2.14,5.1,5.1,2.01,,5.1,3.02,,0.91,0.47,
A18: DD2mut,22,,24.88,1.2,,5.49,5.49,1.74,5.61,5.61,1.6,,5.95,3.18,,0.91,0.44,
A19: DD3mut,20,,26.07,1.96,,5.26,5.26,2.37,5.57,5.57,2.29,,2.75,1.11,,0.92,0.45,
A21: Individual Results,
A22: Phase/Amplitude method,by fit,
A24: Data Ref,Data Label,Status,,Period,Period Err,,Circ. Phase To Zero,Circ. Phase To Wind
A25: 1. [D2],DD1wt,,,24.09,1.41,,8.38,8.38,2.24,8.41,8.41,2.25,,2.92,1.175,,0.93,0.4,
A26: 2. [E2],DD1wt,,,24.26,1.92,,5.85,5.85,4.81,5.91,5.91,4.86,,5.56,3.098,,0.95,0.56,
A27: 3. [F2],DD1wt,,,25.43,1.09,,5.39,5.39,2.03,5.71,5.71,2.15,,5.09,1.582,,0.89,0.31,
A28: 4. [G2],DD1wt,,,27.74,1.23,,3.63,3.63,1.97,4.19,4.19,2.27,,2.46,1.045,,0.95,0.42,
A29: 5. [H2],DD1wt,,,23.46,1.14,,5.9,5.9,2.34,5.77,5.77,2.29,,3.84,1.823,,0.96,0.47,
A30: 6. [I2],DD1wt,,,25.08,2.15,,4.66,4.66,5.1,4.87,4.87,5.32,,2.45,1.456,,0.93,0.59,
A31: 7. [J2],DD1wt,,,23.65,0.77,,6.42,6.42,2.01,6.33,6.33,1.98,,6.31,1.982,,0.88,0.31,
A32: 8. [K2],DD1wt,,,25.41,2.17,,5.54,5.54,3.21,5.87,5.87,3.4,,4.1,2.694,,0.93,0.64,
A33: 9. [L2],DD1wt,,,27.6,2.82,,22.15,22.15,2.79,25.47,25.47,3.21,,2.31,1.657,,0.91,0.71,
A34: 10. [M2],DD1wt,,,25.35,2.33,,4.36,4.36,4.49,4.49,4.6,4.6,4.74,,1.82,1.238,,0.96,0.68,
A35: 11. [N2],DD1wt,,,27.14,1.88,,2.71,2.71,2.14,3.07,3.07,2.42,,4.84,2.157,,1.0,0.45,
A36: 12. [O2],DD1wt,,,25.79,1.33,,4.57,4.57,2.51,4.91,4.91,2.69,,3.99,1.442,,0.86,0.35,
A37: 13. [P2],DD1wt,,,25.19,2.49,,1.09,1.09,5.28,1.14,1.14,5.54,,2.37,1.718,,0.96,0.72,
A38: 14. [Q2],DD1wt,,,24.45,1.26,,6.81,6.81,2.48,6.94,6.94,2.53,,4.29,1.688,,0.91,0.39.
    
```

Assistant Conversion - Étape 3 sur 3 Dialog:

- Format des données en colonne:**
 - Standard
 - Texte
 - Date : JMA
 - Colonne non distribuée

L'option Standard convertit les valeurs numériques en nombres, les dates en dates et les autres valeurs en texte.
- Destination:** \$A\$1
- Aperçu de données:** Shows a preview of the converted data in a grid format.
- Buttons:** Annuler, < Précédent, Suivant >, Terminer (highlighted with a red arrow).

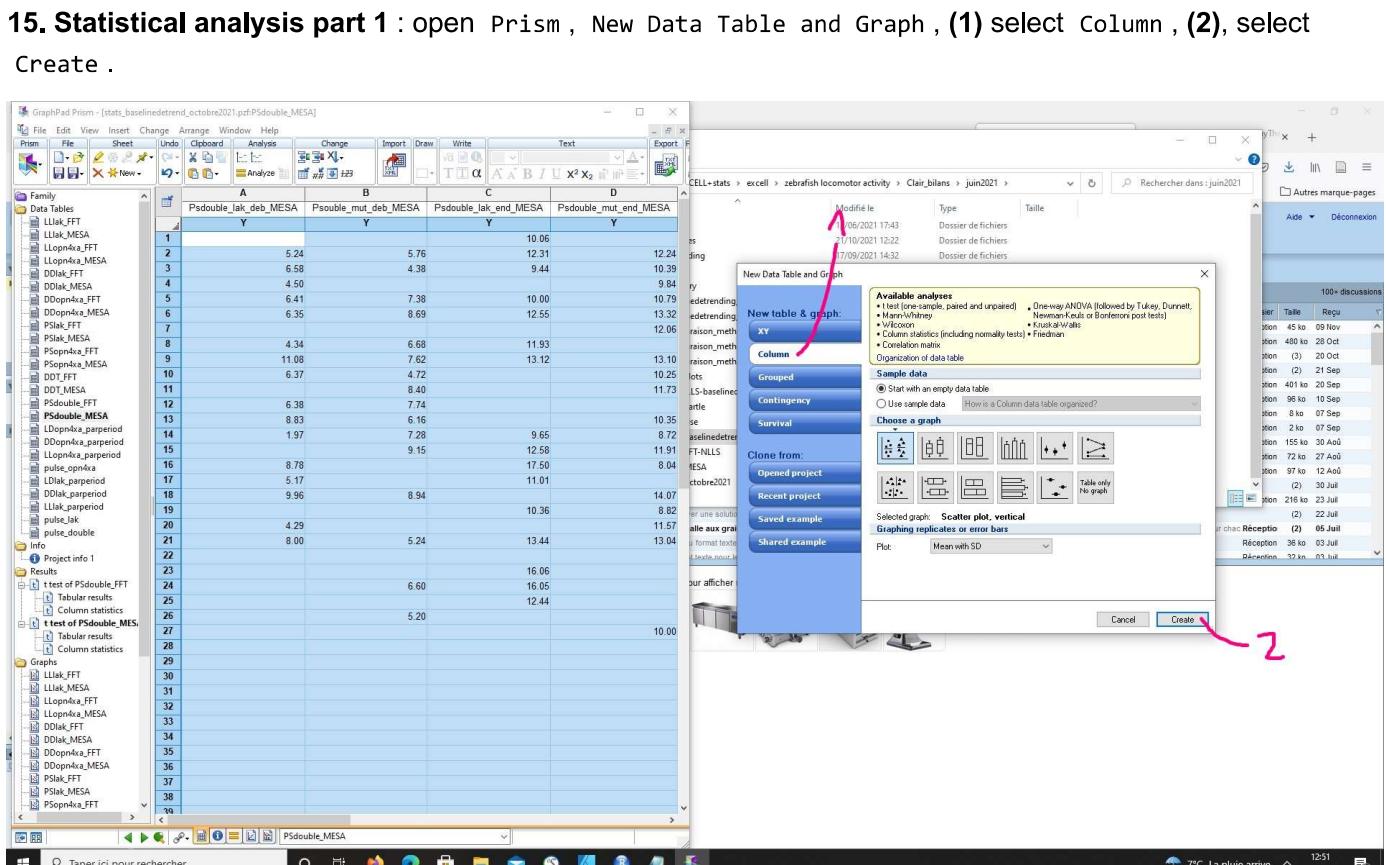
20614_job1d540d94-8271-462c-98ae-6cf2e79dafel1.pptx [Lecture seule] - Excel

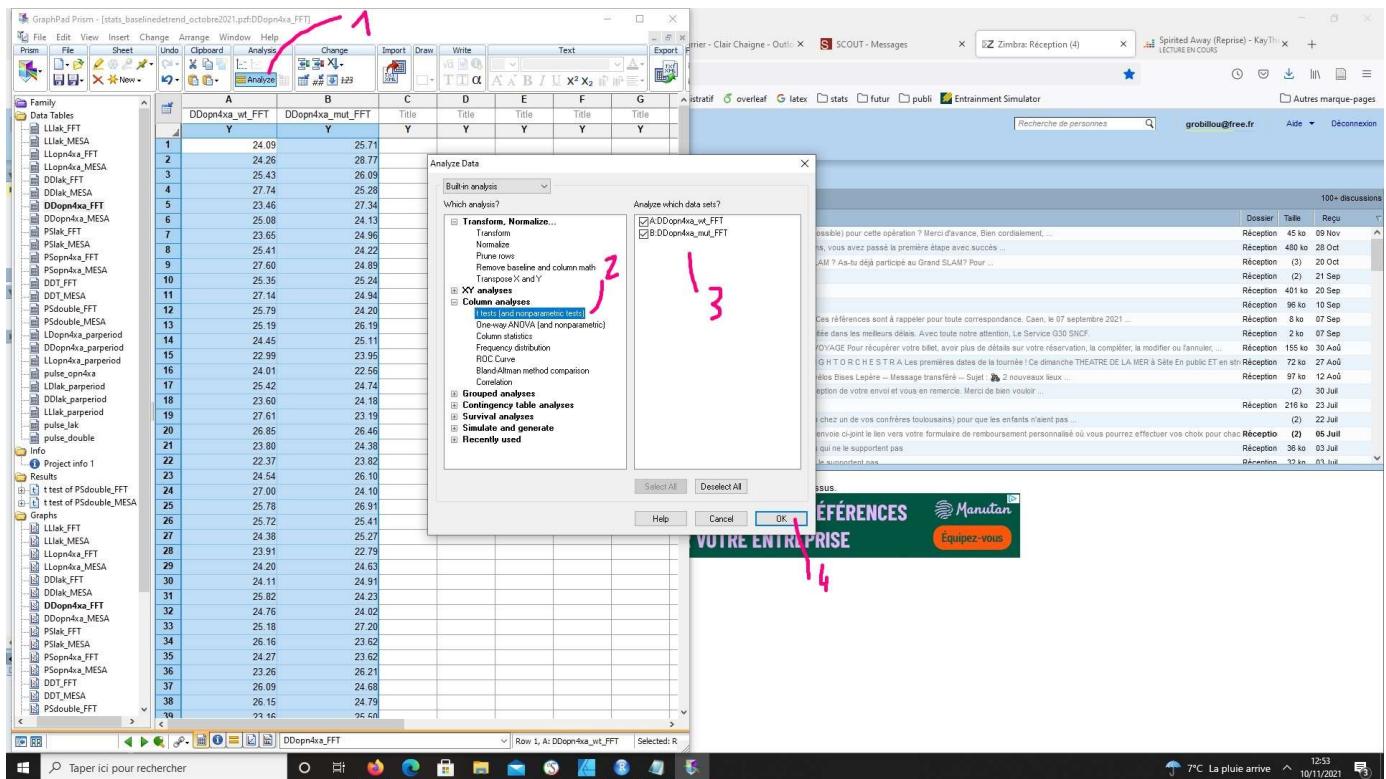
14. Keep the Period data, replace . with , , arrange your data with colors and borders width as you want if needed (I like to put colors and borders to highlight genotypes and experiments), remove periods with an ATTENTION status (I like to label them in red so I can remove them later when I rearrange my data per genotype)

20614_job1d540d94-8271-462c-98ae-6cf2e79dafel1.pptx [Lecture seule] - Excel

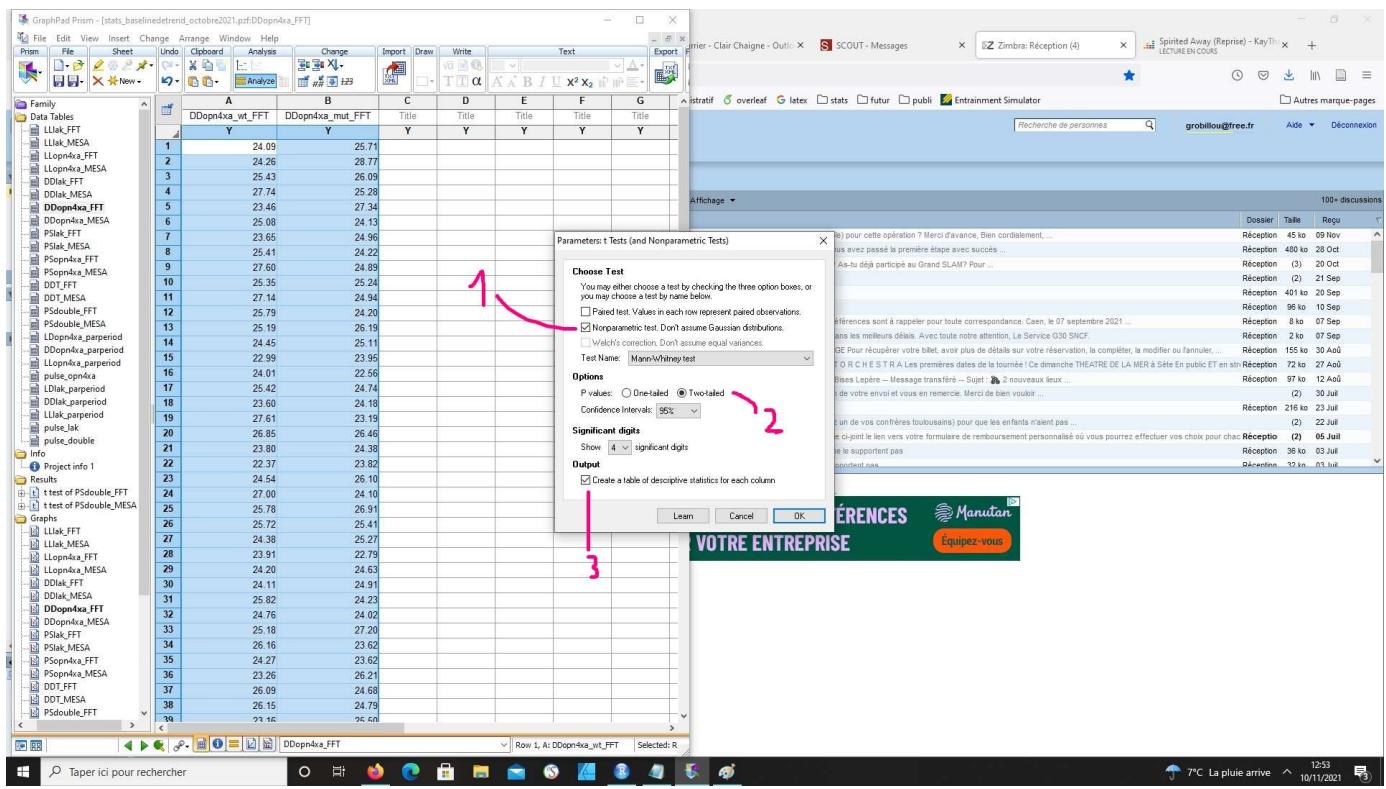
20614_job1d540d94-8271-462c-98ae-6cf2e79dab1.pptx [Lecture seule] - Excel

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA			
25	24	[A2]	DD2wt	27			27	24,1																					
26	25	[B2]	DD2wt		25,78		25,78	26,91																					
27	26	[C2]	DD2wt		25,72		25,72	25,41																					
28	27	[D2]	DD2wt		24,38		24,38	25,27																					
29	28	[E2]	DD2wt		23,91		23,91	22,79																					
30	29	[F2]	DD2wt		24,2		24,2	24,29																					
31	30	[G2]	DD2wt		24,14		24,14	24,11																					
32	31	[H2]	DD2wt		25,83		25,83	24,28																					
33	32	[I2]	DD2wt		24,76		24,76	24,02																					
34	33	[J2]	DD2wt		25,18		25,18	27,2																					
35	34	[K2]	DD2wt		26,16		26,16	23,62																					
36	35	[L2]	DD2wt		24,27		24,27	23,62																					
37	36	[M2]	DD2wt		23,26		23,26	26,21																					
38	37	[N2]	DD2wt		25,09		25,09	25,98																					
39	38	[O2]	DD2wt		26,15		26,15	24,74																					
40	39	[P2]	DD2wt		23,16		23,16	25,5																					
41	40	[Q2]	DD2wt		26,35		26,35	25,43																					
42	41	[R2]	DD3wt		25,56		25,56	24,09																					
43	42	[S2]	DD3wt		26,02		26,02	24,66																					
44	43	[T2]	DD3wt		24,42		24,42	25,72																					
45	44	[U2]	DD3wt		24,67		24,67	26,12																					
46	45	[V2]	DD3wt		24,65		24,64	25,39																					
47	46	[W2]	DD3wt		24,97		24,97	23,11																					
48	47	[X2]	DD3wt	ATTENTION	4,23																								
49	48	[Y2]	DD3wt		25,98		25,98	24,45																					
50	49	[Z2]	DD3wt		25,9		25,9	24,1																					
51	50	[AA2]	DD3wt		27,69		27,69																						
52	51	[AB2]	DD3wt		23,34		23,34	26,95																					
53	52	[AC2]	DD3wt		23,32		23,32																						
54	53	[AD2]	DD3wt		24,45		24,45																						
55	54	[AE2]	DD3wt		24,08		24,08	28,64																					
56	55	[AF2]	DD3wt		27,95		27,95	26,3																					
57	56	[AG2]	DD3wt		26,1		26,1	31,16																					
58	57	[AH2]	DD3wt		23,74		23,74																						
59	58	[AI2]	DD3wt		23,49		23,49																						
60	59	[AJ2]	DD3wt		24,5		24,5	24,59																					
61	60	[AK2]	DD3wt		24,07		24,07	25,42																					
62	61	[AL2]	DD3wt		24,55		24,55	25,84																					
63	62	[AM2]	DD3wt		24,58		24,58																						
64	63	[AN2]	DD3wt		23,28		23,28	27,61																					
65	64	[AO2]	DD3wt		25,04		25,04	25,41																					
66	65	[AP2]	DD3wt		23,82		23,82	28,74																					
67	66	[AQ2]	DD1mut		25,71																								
68	67	[AR2]	DD1mut		28,77																								





15. Statistical analysis part 3 : (1) if your data are nonparametric, click on Nonparametric test , (2) be sure it's two-tailed , (3) click on Output to have the mean etc...



15. Statistical analysis part 4 : in Tabular results , you have the data you analysed and the p value summary. In Column statistics you can see the mean, n, standard deviation, etc...

The screenshot shows a dual-monitor setup. The left monitor displays GraphPad Prism version 8.0.1, with the title bar "GraphPad Prism - [stats_baselinetrend_octobre2021.pdf] test of DDopn4xa_FFT". The main window shows a table titled "t test" with columns A through F. The first row contains "Number of values" with values 64, 60, Y, Y, Y, and Y respectively. The second row contains "Mean" with values 25.05, 25.35, and Y. The third row contains "Std Deviation" with values 1.435, 1.604, and 0.2071. The fourth row contains "Std Error" with values 0.1794, 0.2071, and Y. The fifth row contains "Lower 95% CI" with values 24.69, 24.94, and Y. The sixth row contains "Upper 95% CI" with values 25.41, 25.77, and Y. The right monitor displays a Zimbra inbox with 4 messages, a search bar, and a sidebar with various links like "Statistiques", "overleaf", "Latex", etc.