

Supplemental Materials

Molecular Biology of the Cell

Patel-King et al.

Supplementary Figure Legends

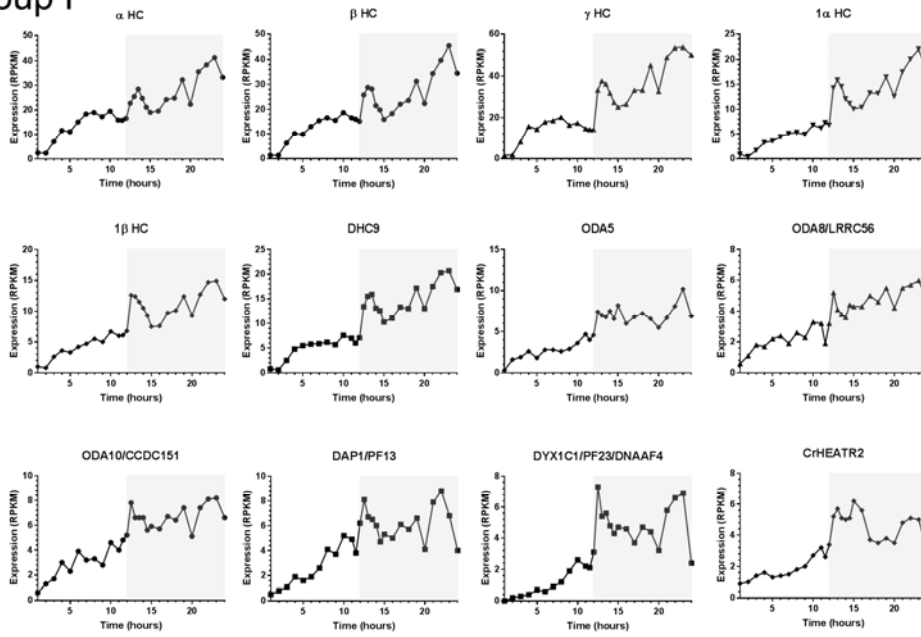
Supplementary Figure S1 Transcriptomic Profiles of Dynein Components and Assembly Factors

Diurnal transcriptomic profiles for individual dynein components and assembly factors are shown. The profiles show three basic patterns of expression and are arranged as Groups I-III. The original data are from (Zones *et al.*, 2015). RPKM; reads per kilobase per million mapped reads.

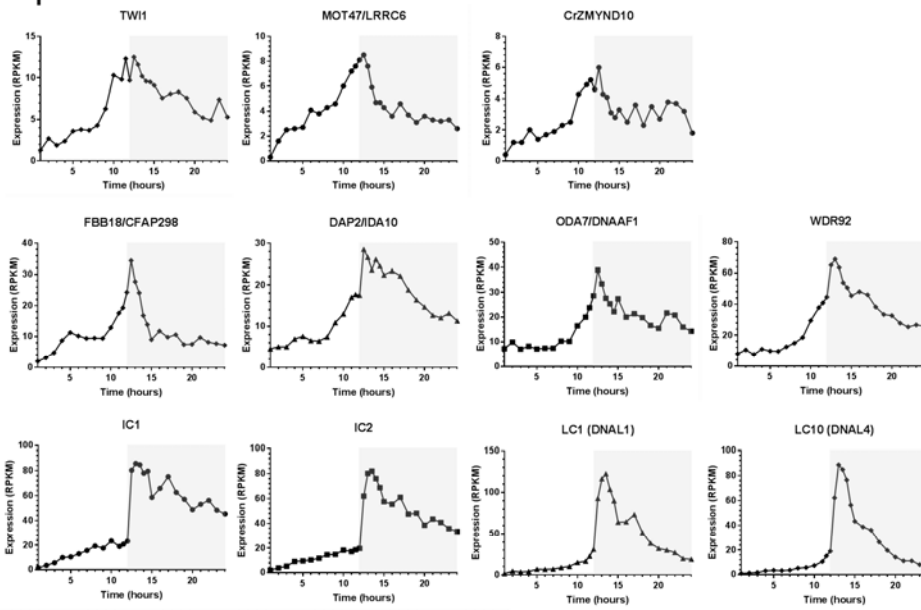
Supplementary Figure S2 *wdr92-1 tpg1-2* Cilia Lack Rigidity

Differential interference contrast images of *pf18* and *wdr92-1 tpg1-2* cells. The *pf18* cilia lack the central pair complex, have dyneins in a pre-power stroke force-balanced state (Lin and Nicastro, 2018), and are rigid. In contrast, *wdr92-1 tpg1-2* cilia adopt varying conformations and appear flaccid or “floppy” as the cells float around. In the *lower panel*, cilia images from multiple cells were aligned at the base and overlaid using Adobe Photoshop to illustrate this conformational variation. Bar = 5 μm .

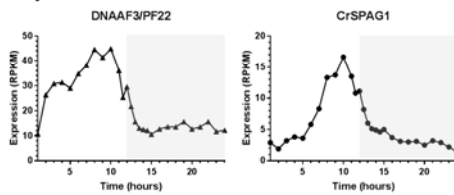
Group I

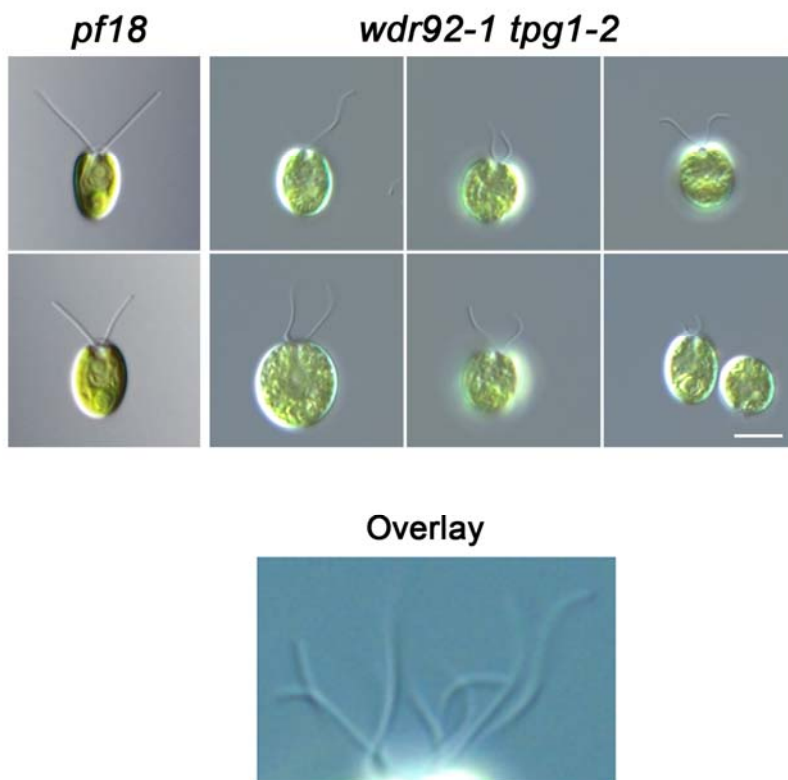


Group II



Group III





Patel-King *et al.* Supplementary Figure S2

Supplementary Table 1

Oligonucleotides Used in this Study

Designation	Sequence	Source
SK962	GCACCAATCATGTCAAGCCT	C1B1 resistance cassette
SK963	GACGTTACAGCACACCCTTG	C1B1 resistance cassette
SK971	GGCTTGTGTGGCTGGTATTT	<i>WDR92</i> upstream forward primer
SK972	TACGAGCTAGAAGGACCGGA	<i>WDR92</i> downstream reverse primer

Supplementary Table 2

Antibodies Used in this Study

Antibody	Target Protein	Source and Type	Reference
18 α B	Outer arm dynein α heavy chain (α HC)	Mouse monoclonal IgG	1,2
18 β C	Outer arm dynein β heavy chain (β HC)	Mouse monoclonal IgG	1,2
12 γ B	Outer arm dynein γ heavy chain (γ HC)	Mouse monoclonal IgG	1,2
1878A	Outer arm dynein intermediate chain 1 (IC1 <i>aka</i> IC78, IC80)	Mouse monoclonal IgG	1,2
1869A	Outer arm dynein intermediate chain 2 (IC2 <i>aka</i> IC69, IC70)	Mouse monoclonal IgG	1,2
R5932	Outer arm dynein light chain 1 (LC1)	Rabbit polyclonal	3
CT248	IFT dynein intermediate chain 2 (D1bIC2 <i>aka</i> FAP133, WDR34)	Rabbit polyclonal	4
CT295	IFT dynein intermediate chain 1 (D1bIC1 <i>aka</i> FAP163, WDR60)	Rabbit polyclonal	5
CT299	DYX1C1 (PF23) dynein assembly factor	Rabbit polyclonal	6
α -DHC1b	DHC1b - IFT dynein heavy chain	Rabbit polyclonal	7
α -IFT72/74	IFT72/74 (IFT-B component)	Rabbit polyclonal	8
α -IFT139	IFT139 (IFT-A component)	Mouse monoclonal IgG	9

References

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