

**Supplementary Table S1.** Details of cognitive testing. Nine of twelve birds (ID) were tested on the reversal learning task for each sleep protocol (undisturbed sleep [US]; 6-h sleep deprivation [6SD]; 12-h sleep deprivation [12SD]). The starting colour chosen by each bird, and the protocol order, are also provided.

ID	Tested or not tested			Starting colour			Protocol order		
	US	6SD	12SD	US	6SD	12SD	First	Second	Third
Taylor	tested	not tested	not tested	Black	.	.	US	.	.
Darcy	tested	tested	tested	Black	Black	Black	12SD	US	6SD
Varcoe	tested	tested	tested	White	White	White	12SD	US	6SD
Goldsack	tested	not tested	tested	Black	.	Black	12SD	US	.
Sidebottom	not tested	not tested	not tested	.	.	.	.	.	.
Grundy	tested	tested	tested	White	White	White	12SD	US	6SD
Swan	tested	tested	tested	Black	White	Black	US	12SD	6SD
Pendlebury	not tested	not tested	not tested	.	.	.	.	.	.
Tufty	not tested	not tested	not tested	.	.	.	.	.	.
DeGoey	tested	tested	tested	Black	White	White	US	12SD	6SD
Cox	tested	not tested	tested	White	.	White	US	12SD	.
Treloar	tested	tested	tested	White	Black	White	US	12SD	6SD