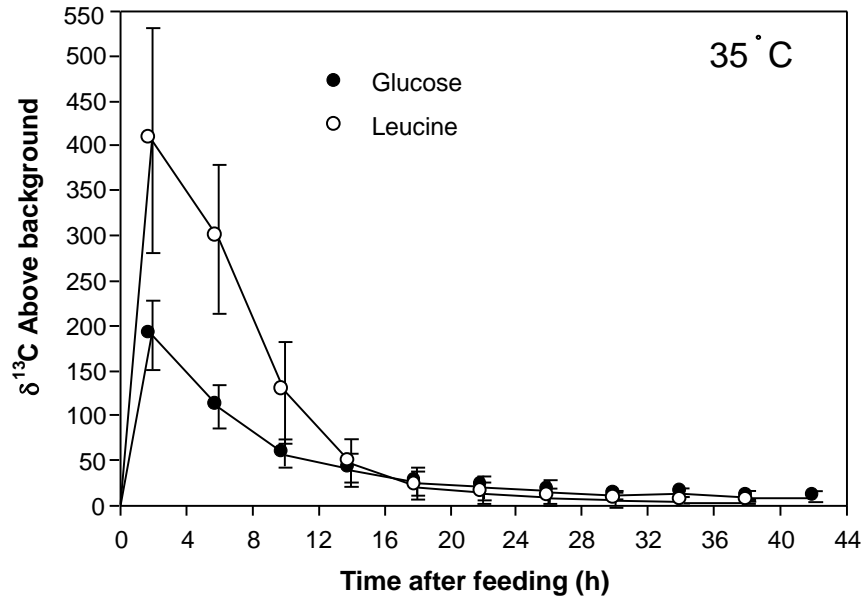


### Supplemental materials



**Figure S1.** The increase in the  $^{13}\text{C}$ -content in the exhaled breath of flies digesting  $^{13}\text{C}$ -labeled blood meals at  $35^\circ\text{C}$ . The increases in  $^{13}\text{C}$ -content for each treatment groups were calculated by subtracting the  $^{13}\text{C}$ -content in the breath of flies fed blood meals containing no  $^{13}\text{C}$  tracer and are expressed in terms of  $\delta^{13}\text{C}_{\text{VPDB}}$ . For further calculations these values were converted to atom fraction excess (see equation 1 in Methods for details). Error bars refer to s.d.

**Table S1.** Studies of SDA at different temperatures. Change in SDA refers to change in total SDA energy across different temperatures.

Study	Animal	Change
Crocker-Buta <i>et al.</i> , 2014	colubrid snake	none
Machida, 1981	fishes	none
McGaw and Whiteley, 2012	crab	none
Powell <i>et al.</i> , 1999	frog	none
Robertson <i>et al.</i> , 2002	crab	none
Secor and Boehm, 2006	salamander	none
Secor and Faulkner, 2002	toad	none
Toledo <i>et al.</i> , 2003	boa snake	none
Wang <i>et al.</i> , 2003	python snake	none
Whiteley <i>et al.</i> , 2002	isopod	none
Zaiden and Beaupre, 2003	rattlesnake	none