

S2 Table. Pharmacological agent information. Different pharmacological agents used for partitioning metabolic function, the number of optimum measurement cycles, the concentrations tested, and the working concentrations for each agent, per tissue and per species.

Heart				
Drug	Measurement cycles*	Species	Range of concentrations tested	Working concentration
Oligomycin	8-10	<i>D. rerio</i>	1-150 μ M (up to 1% DMSO)	10 μ M in 1% DMSO
		<i>F. heteroclitus</i>	5-150 μ M (up to 1% DMSO)	15-25 μ M in 1% DMSO
		<i>P. promelas</i>	1-20 μ M (up to 2% DMSO)	Not found
		<i>O. latipes</i>	1-20 μ M	Not found
FCCP	6-8	<i>D. rerio</i>	0.5-150 μ M (up to 1% DMSO)	2 μ M in 1% DMSO
		<i>F. heteroclitus</i>	2-150 μ M	5 μ M
		<i>P. promelas</i>	2-20 μ M (up to 2% DMSO)	Not found
		<i>O. latipes</i>	2-30 μ M (up to 1% DMSO)	Not found
Sodium azide	25+	<i>D. rerio</i>	1-3000 mM (up to 1% DMSO)	100 mM
		<i>F. heteroclitus</i>	10 mM -100 mM	30 mM
		<i>P. promelas</i>	10-30 mM	Not found
		<i>O. latipes</i>	100 mM	Not found
Antimycin A + rotenone	25+	<i>D. rerio</i>	20-50 μ M + 20-50 μ M	44 μ M + 44 μ M
		<i>F. heteroclitus</i>	20-50 μ M + 20-50 μ M	44 μ M + 44 μ M
Rotenone	Not found	<i>D. rerio</i>	2-60 μ M	Not found
DCCD	Not found	<i>D. rerio</i>	2-25 μ M (up to 1% DMSO)	Not found
DMSO control	Not found	<i>D. rerio</i>	up to 2%	No effect
		<i>P. promelas</i>	up to 2%	No effect
Brain				
Drug	Measurement cycles	Species	Range of concentrations tested	Final concentration
Oligomycin	8-10	<i>D. rerio</i>	1-100 μ M (up to 1% DMSO)	Not found
		<i>F. heteroclitus</i>	5-150 μ M (up to 1% DMSO)	Not found
FCCP	6-8	<i>D. rerio</i>	2-150 μ M (up to 1% DMSO)	Not found
		<i>F. heteroclitus</i>	2-150 μ M	Not found
Sodium azide	25+	<i>D. rerio</i>	10-100 mM (up to 1% DMSO)	Not found
		<i>F. heteroclitus</i>	20-100 mM	Not found
Antimycin + rotenone	25+	<i>D. rerio</i>	50 μ M + 50 μ M	Not found
		<i>F. heteroclitus</i>	25 mM + 25 mM	Not found
Rotenone	Not found	<i>D. rerio</i>	50-60 μ M	Not found
DCCD	Not found	<i>D. rerio</i>	2-25 μ M (1% DMSO)	Not found
DMSO control	Not found	<i>D. rerio</i>	up to 2%	No effect

Liver				
Drug	Measurement cycles	Species	Range of concentrations tested	Final concentration
Oligomycin	8-10	<i>D. rerio</i>	10-20 μ M	Not found
		<i>F. heteroclitus</i>	15-30 μ M	Not found
FCCP	6-8	<i>D. rerio</i>	3-5 μ M	Not found
		<i>F. heteroclitus</i>	2 μ M	Not found
Sodium azide	25+	<i>D. rerio</i>	10 mM	Not found
		<i>F. heteroclitus</i>	20-30 mM	Not found
Skeletal Muscle				
Drug	Measurement cycles	Species	Range of concentrations tested	Final concentration
Oligomycin	8-10	<i>D. rerio</i>	10 μ M	Not found
FCCP	6-8	<i>D. rerio</i>	2-5 μ M	Not found
Sodium azide	25+	<i>D. rerio</i>	10 mM	Not found

Note: * Measurement cycle consisted of 1 min mix, 1 min wait, 2 min measure