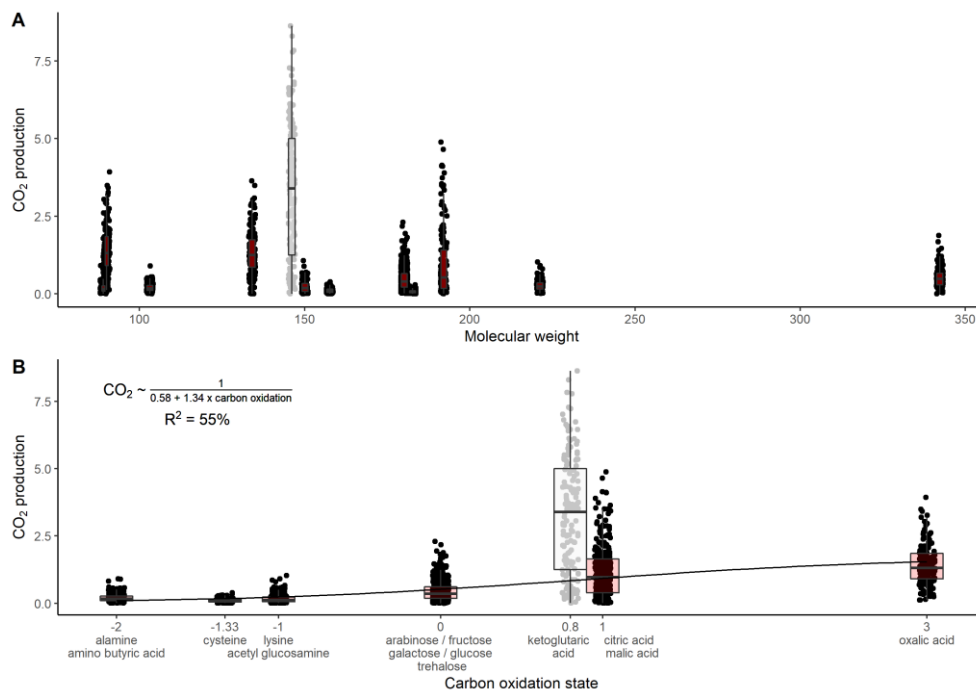


Supplementary material II-S6

I. List of substrates used in substrate-induced respiration measurements (i.e. Microresp® method) and chemical attributes.

Full name	Chemical group	Formula	Molecular Weight	Mean carbon oxidation state
L-Alanine	Amino acid	C ₃ H ₇ NO ₂	89.094	-2
γ-Aminobutyric acid	Amino acid	C ₄ H ₉ NO ₂	103.121	-2
L-Cysteine-HCl	Amino acid	C ₃ H ₈ ClNO ₂ S	157.612	-1.33
L-Arginine	Amino acid	C ₆ H ₁₄ N ₄ O ₂	174.204	-1
L-Lysine-HCl	Amino acid	C ₆ H ₁₅ ClN ₂ O ₂	182.648	-1
Oxalic acid	Carboxylic acid	(COOH) ₂	90.034	3
L-Malic acid	Carboxylic acid	C ₄ H ₆ O ₅	134.087	1
α-Ketoglutaric acid	Carboxylic acid	C ₅ H ₆ O ₅	146.11	0.8
Citric acid	Carboxylic acid	C ₆ H ₈ O ₇	192.123	1
L-(+)-Arabinose	Sugar	C ₅ H ₁₀ O ₅	150.13	0
D-(-)-Fructose	Sugar	C ₆ H ₁₂ O ₆	180.156	0
D-(+)-Galactose	Sugar	C ₆ H ₁₂ O ₆	180.156	0
D-(+)-Glucose	Sugar	C ₆ H ₁₂ O ₆	180.156	0
N-Acetyl glucosamine	Sugar	C ₈ H ₁₅ NO ₆	221.209	-1

II. CO₂ production during the six hours following the substrate addition in the Microresp.[®] measurements. CO₂ production against substrate molecular weight (A.) or against mean carbon oxidation state (B.).



III. Effect of (A.) substrate removal and (B.) change of induction range definition on indices values

