

Figure S1. Replicate BMP curves of samples from tomato leaves. Dots: experimental methane yield expressed in NL kgVS⁻¹, solid lines: TGM.

Table S1. Parameter values of the TGM fitting the BMP curves of samples from tomato leaves.

		A_1 (L kg ⁻¹ VS)	λ_1 (d)	μ_{max1} (L kg ⁻¹ d ⁻¹)	A_2 (L kg ⁻¹ VS)	λ_2 (d)	μ_{max2} (L kg ⁻¹ d ⁻¹)	R ²	NSE	PBIAS
March	#1	168	0.0	19.0	89	15	5.9	0.999	1.00	0.08
	#2	242	0.6	25.7	33	21.1	2.3	1.000	1.00	-0.01
May	#1	197	0.0	8.4	82	30.5	4.8	0.998	0.99	0.70
	#2	220	0.0	8.8	14	47.7	1.9	0.998	1.00	0.27
	#3	231	0.0	9.3	25	40.1	1.7	0.998	1.00	-0.01
August	#1	126	0.0	14.7	66	23.5	5.7	0.998	1.00	0.25
	#2	165	0.6	19.9	30	23.3	1.9	0.999	1.00	-0.06
	#3	149	0.0	17.3	94	20.0	5.3	0.997	0.99	0.50

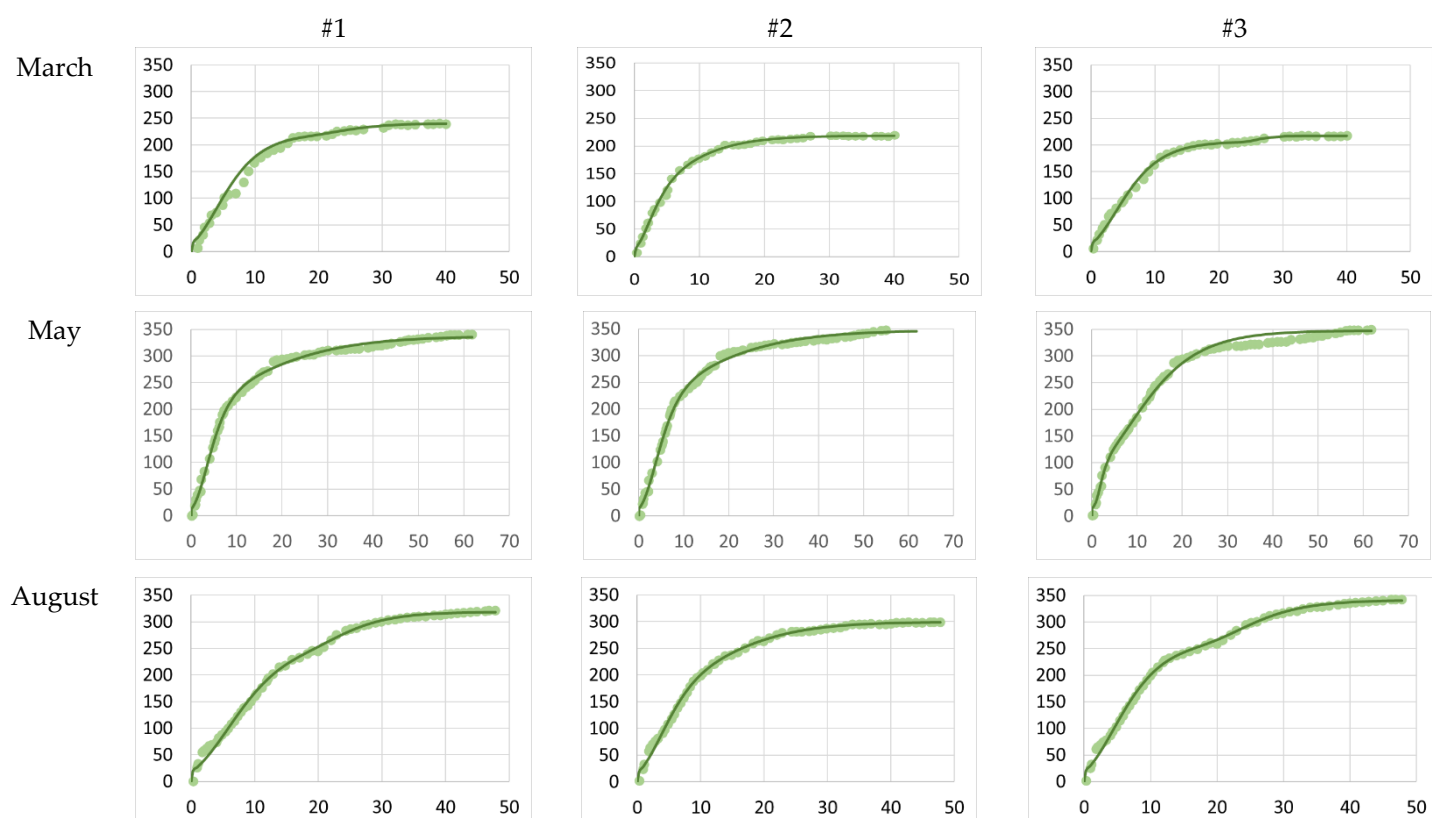


Figure S2. Replicate BMP curves of samples from tomato suckers. Dots: experimental methane yield expressed in NL kgVS⁻¹, solid lines: TMG.

Table S2. Parameter values of the TMG fitted on BMP curves of samples from tomato suckers.

		A ₁ (L kg ⁻¹ VS)	λ ₁ (d)	μ _{max1} (L kg ⁻¹ d ⁻¹)	A ₂ (L kg ⁻¹ VS)	λ ₂ (d)	μ _{max2} (L kg ⁻¹ d ⁻¹)	R ²	NSE	PBIAS
March	#1	222	0.0	20.6	19	19.3	1.6	0.998	1.00	0.20
	#2	137	0.0	24.0	81	1.7	5.4	0.999	1.00	-0.04
	#3	207	0.0	19.2	10	24.3	2.4	0.998	1.00	0.29
May	#1	227	0.5	29.3	109	3.1	3.4	0.998	1.00	-0.09
	#2	239	0.5	26.9	108	3.0	3.4	0.998	1.00	-0.07
	#3	78	0.7	26.6	272	0.5	11.9	0.997	0.99	-1.41
August	#1	269	0.0	17.2	49	18.8	3.7	0.998	1.00	0.563
	#2	239	0.0	23.3	60	10.6	3.2	0.998	1.00	0.23
	#3	264	0.0	22.2	76	18.8	5.2	0.998	1.00	0.27

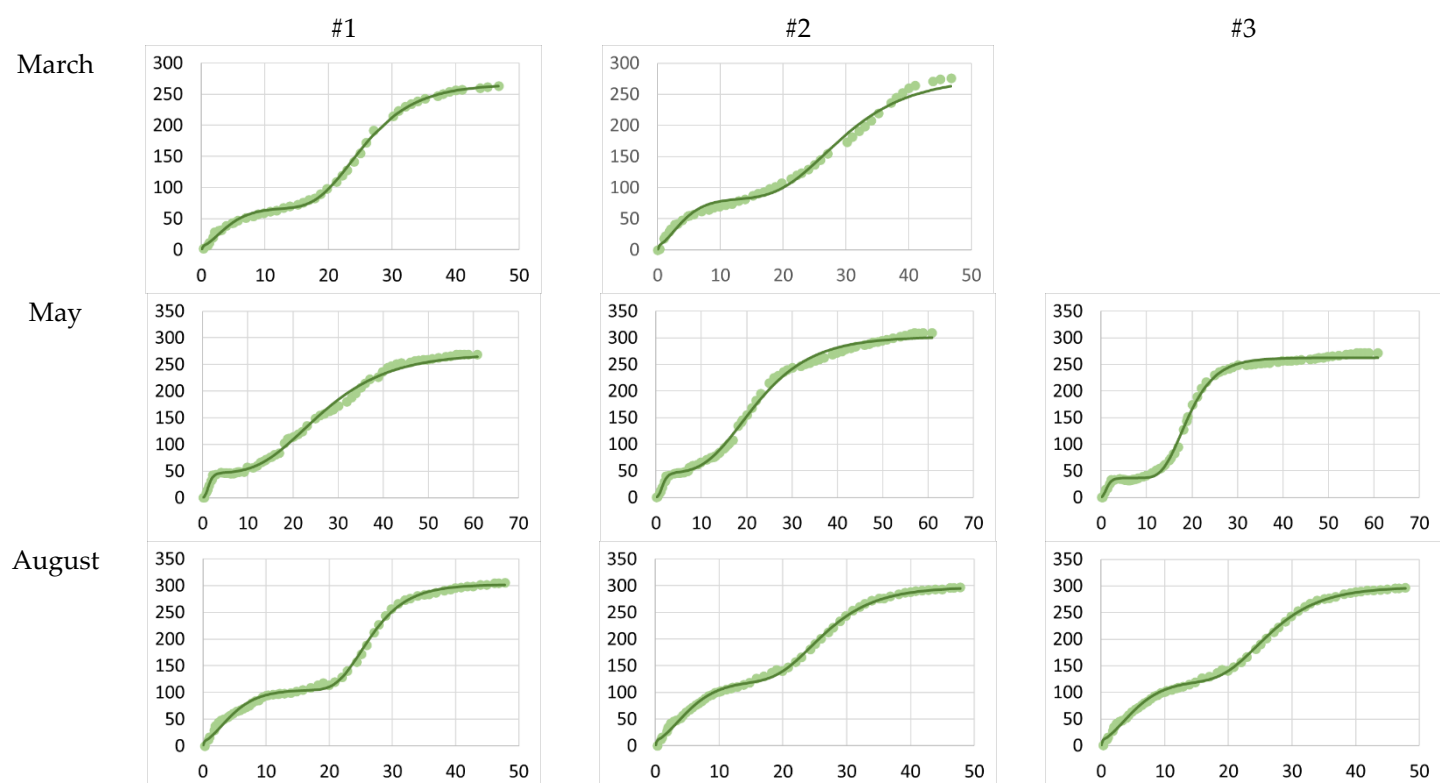


Figure S3. Replicate BMP curves of samples from cucumber leaves.
Dots: experimental methane yield expressed in NL kgVS⁻¹, solid lines: TMG.

Table S3. Parameter values of the TMG fitting the BMP curves of samples from cucumber leaves.

		A ₁ (L kg ⁻¹ VS)	λ ₁ (d)	μ _{max1} (L kg ⁻¹ d ⁻¹)	A ₂ (L kg ⁻¹ VS)	λ ₂ (d)	μ _{max2} (L kg ⁻¹ d ⁻¹)	R ²	NSE	PBIAS
March	#1	67	0.0	9.3	199	17.9	13.1	0.999	1.00	0.09
	#2	83	0.0	11.7	193	19.1	9.5	0.996	0.99	1.19
May	#1	46	0.4	25.9	224	12.1	7.9	0.998	1.00	0.72
	#2	46	0.5	23.2	256	10.4	11.1	0.998	1.00	0.00
	#3	37	0.3	19.0	226	13.3	19.8	0.999	1.00	-0.01
August	#1	106	0.0	12.8	197	21.1	18.0	0.999	1.00	0.32
	#2	121	0.0	13.0	181	18.5	11.2	0.999	1.00	0.36
	#3	123	0.0	12.8	175	18.9	11.6	0.999	1.00	0.36

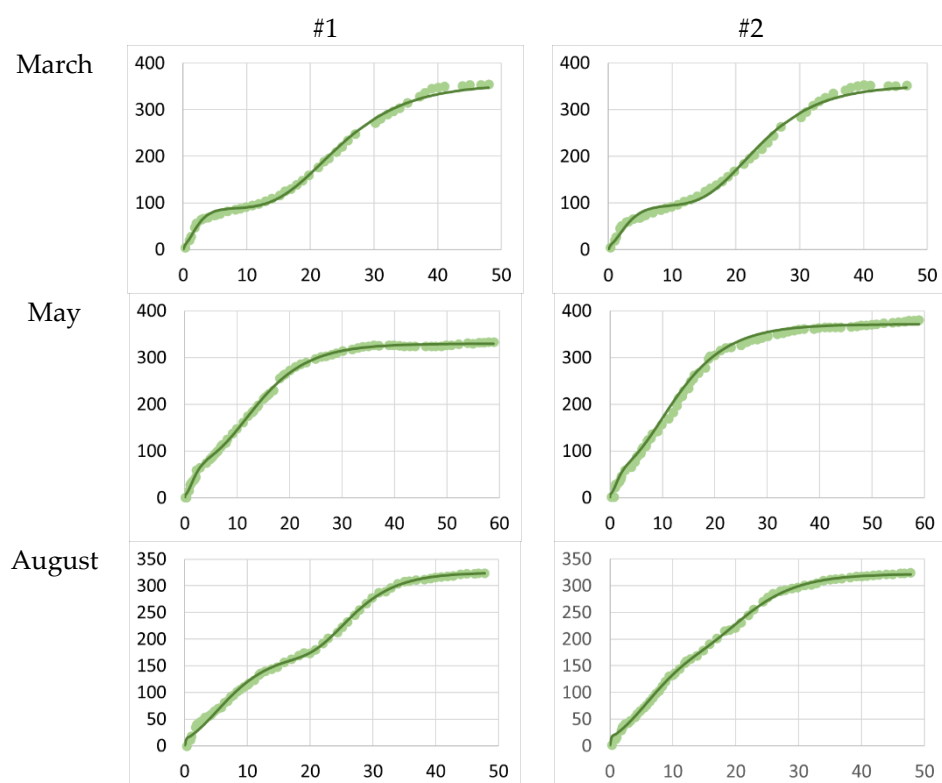


Figure S4. Replicate BMP curves of samples from cucumber suckers. Dots: experimental methane yield expressed in NL kgVS⁻¹, solid lines: TGM.

Table S4. Parameter values of the TGM fitting the BMP curves of samples from cucumber suckers.

		A ₁ (L kg ⁻¹ VS)	λ ₁ (d)	μ _{max1} (L kg ⁻¹ d ⁻¹)	A ₂ (L kg ⁻¹ VS)	λ ₂ (d)	μ _{max2} (L kg ⁻¹ d ⁻¹)	R ²	NSE	PBIAS
March	#1	89	0.0	23.2	266	14.4	13.2	0.998	1.00	0.69
	#2	95	0.0	18.8	257	14.8	14.5	0.998	0.99	1.03
May	#1	75	0.1	24.2	255	5.0	14.2	0.999	1.00	-0.03
	#2	51	0.2	22.0	321	3.0	17.1	0.999	1.00	-0.03
August	#1	176	0.0	12.7	149	20.4	11.2	0.999	1.00	0.36
	#2	221	0.0	13.7	102	16.1	6.9	1.000	1.00	-0.14

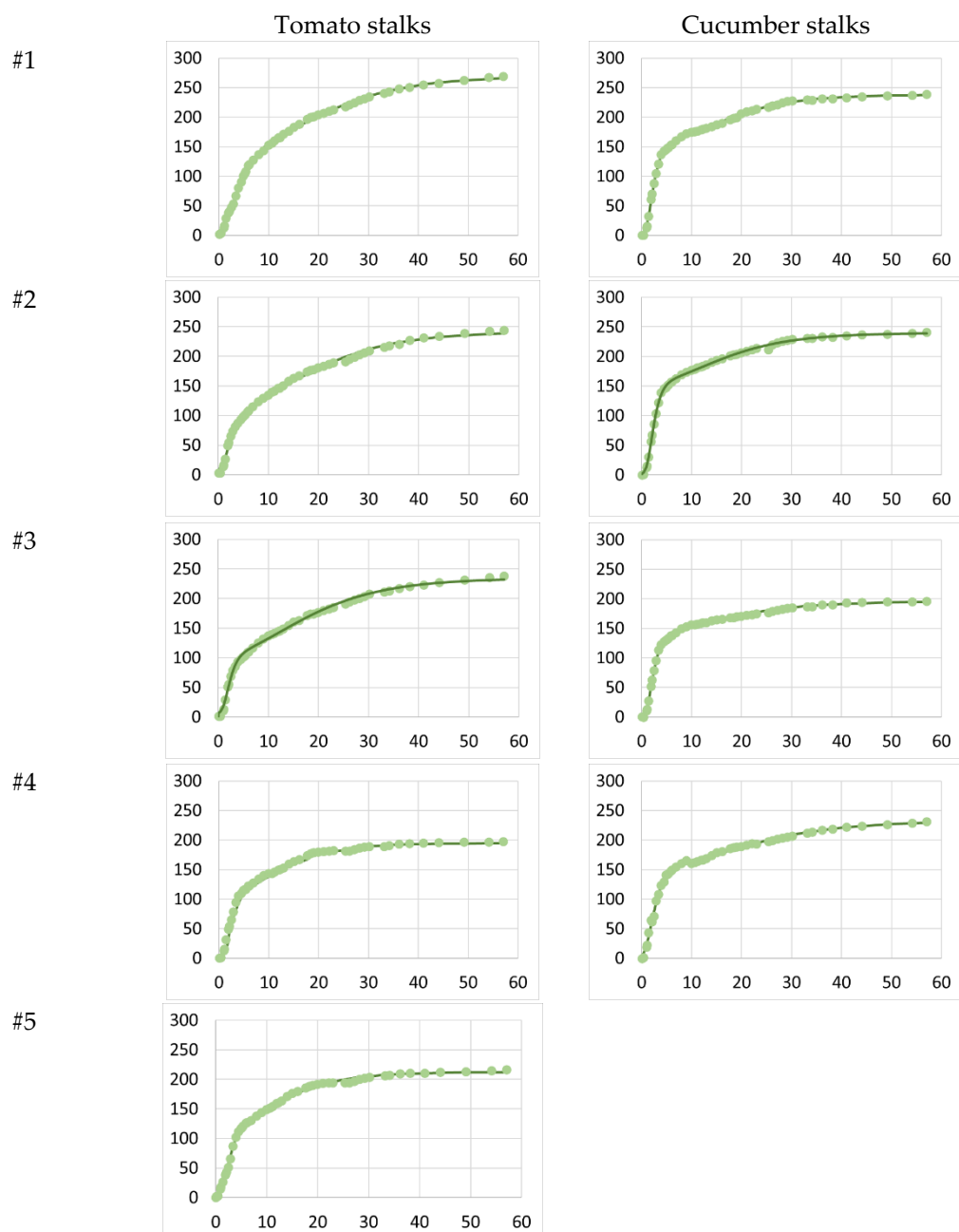


Figure S5. Replicate BMP curves of samples from tomato and cucumber stalks after removal of the whole plant. Dots: experimental methane yield expressed in NL gVS⁻¹, solid lines: TGM.

Table S5. Parameter values of the TGM fitting the BMP curves of samples from tomato and cucumber stalks after removal of the whole plant.

		A_1 (L kg ⁻¹ VS)	λ_1 (d)	μ_{max1} (L kg ⁻¹ d ⁻¹)	A_2 (L kg ⁻¹ VS)	λ_2 (d)	μ_{max2} (L kg ⁻¹ d ⁻¹)	R ²	NSE	PBIAS
Tomato	#1	134	0.6	21.8	136	3.8	4.3	0.999	1.00	-0.10
	#2	93	0.6	25.3	149	1.6	4.8	0.998	1.00	-0.20
	#3	92	0.8	32.5	142	1.6	4.8	0.999	1.00	-0.22
	#4	111	0.7	36.7	84	2.8	4.4	0.999	1.00	-0.06
	#5	109	1.0	31.6	103	1.2	4.8	0.999	1.00	-0.02
Cucumber	#1	148	0.8	52.2	90	3.6	3.7	1.000	1.00	-0.07
	#2	150	0.9	52.2	90	2.7	3.5	1.000	1.00	-0.08
	#3	134	0.9	47.2	61	1.7	2.2	0.999	1.00	-0.12
	#4	150	0.5	40.1	82	4.5	2.5	0.999	1.00	-0.10