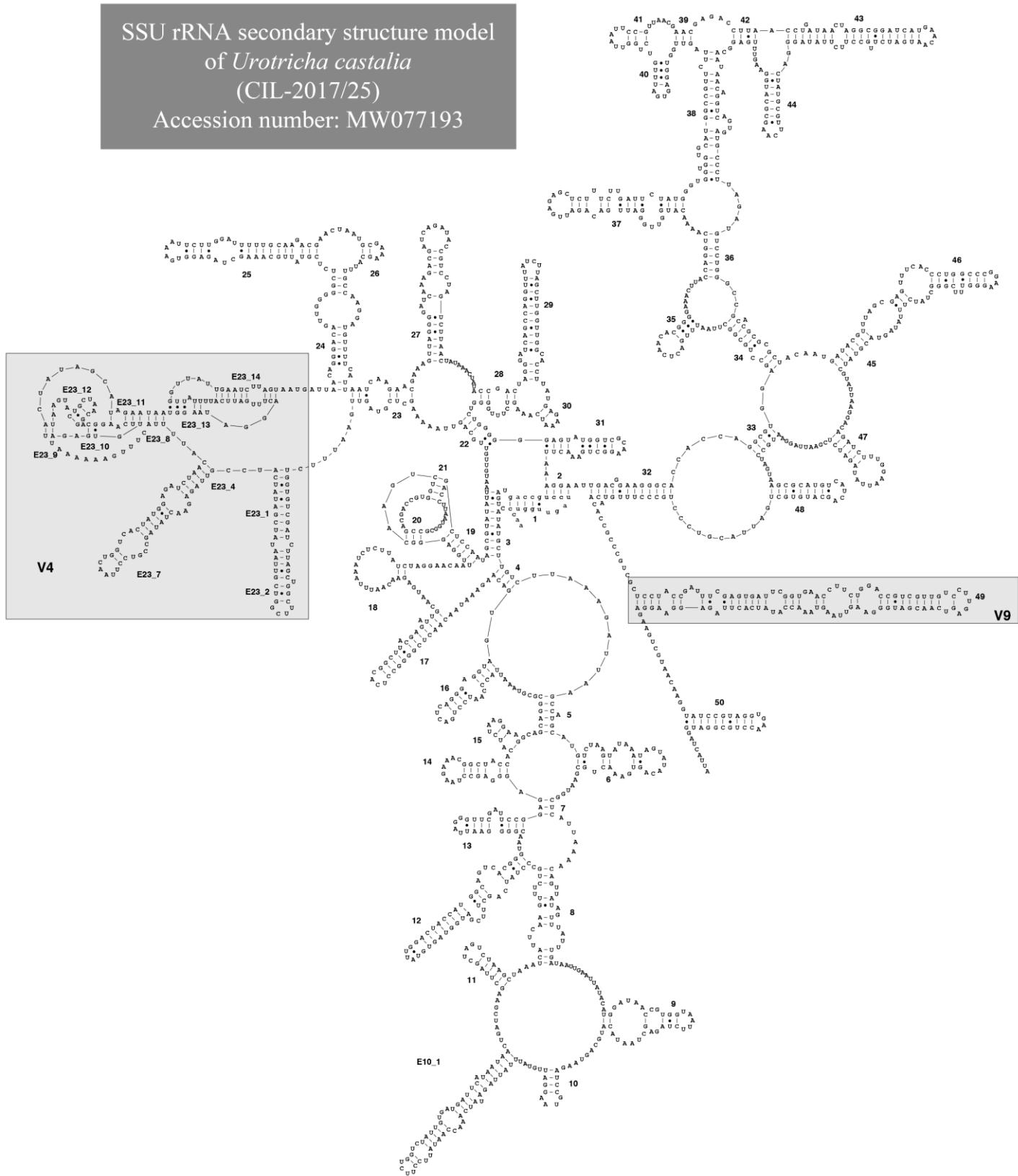
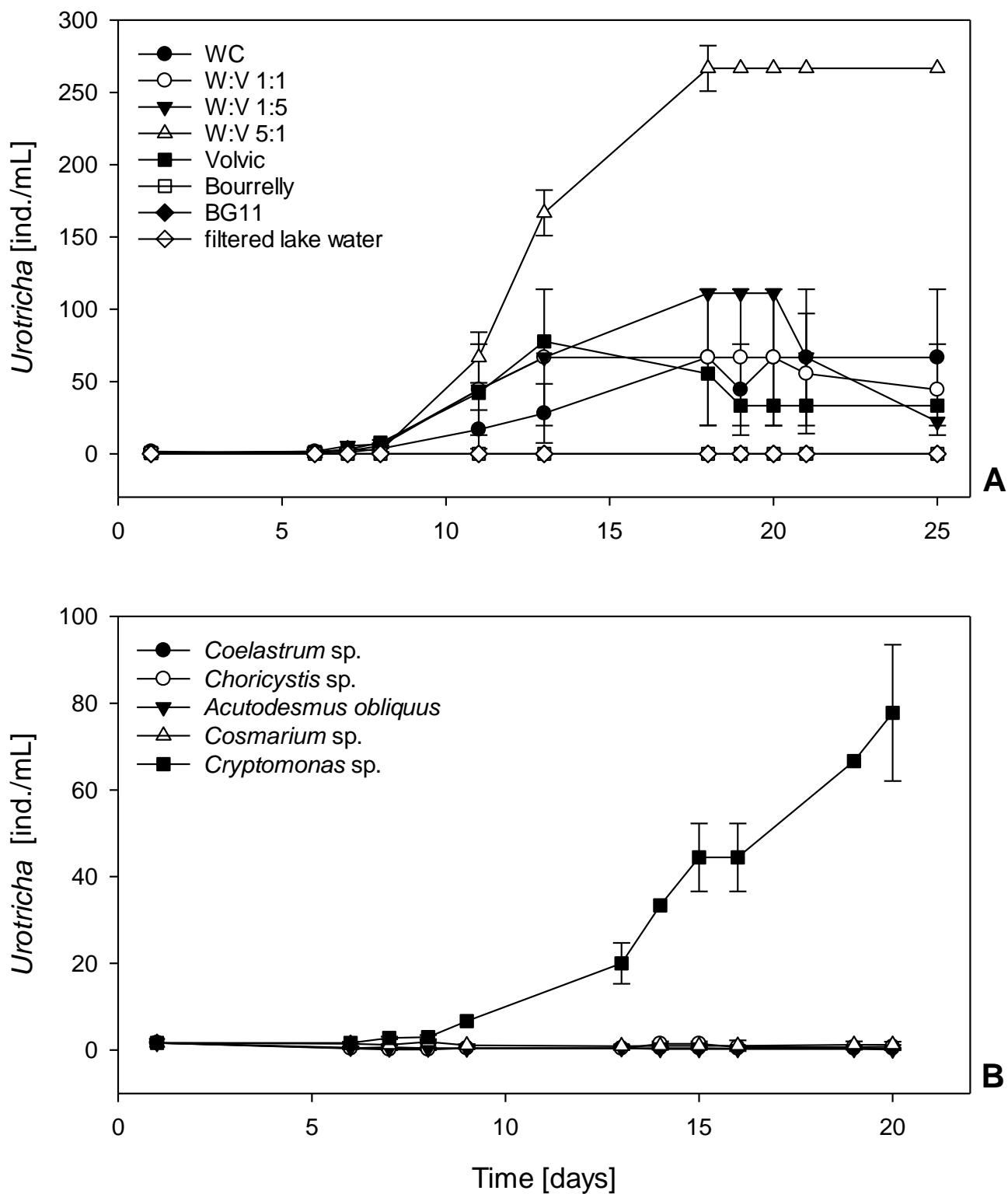


**Supplementary Figure 1** | Algal strains used for feeding experiments with *U. castalia* (strain CIL-2017/25): (A) MS-2017/1 *Coelastrum* sp., (B) MS-2017/2 *Choricystis* sp., (C) MS-2017/7 *Acutodesmus obliquus*, (D) SAG 26.80 *Cryptomonas* sp., and (E) MS-2018/1 *Cosmarium* sp.; scale bar = 10 mm.

SSU rRNA secondary structure model  
of *Urotricha castalia*  
(CIL-2017/25)  
Accession number: MW077193



**Supplementary Figure 2 | Secondary structure of the SSU rRNA of *Urotricha castalia* (strain CIL-2017/25).** The variable regions V4 and V9 are highlighted by gray boxes.

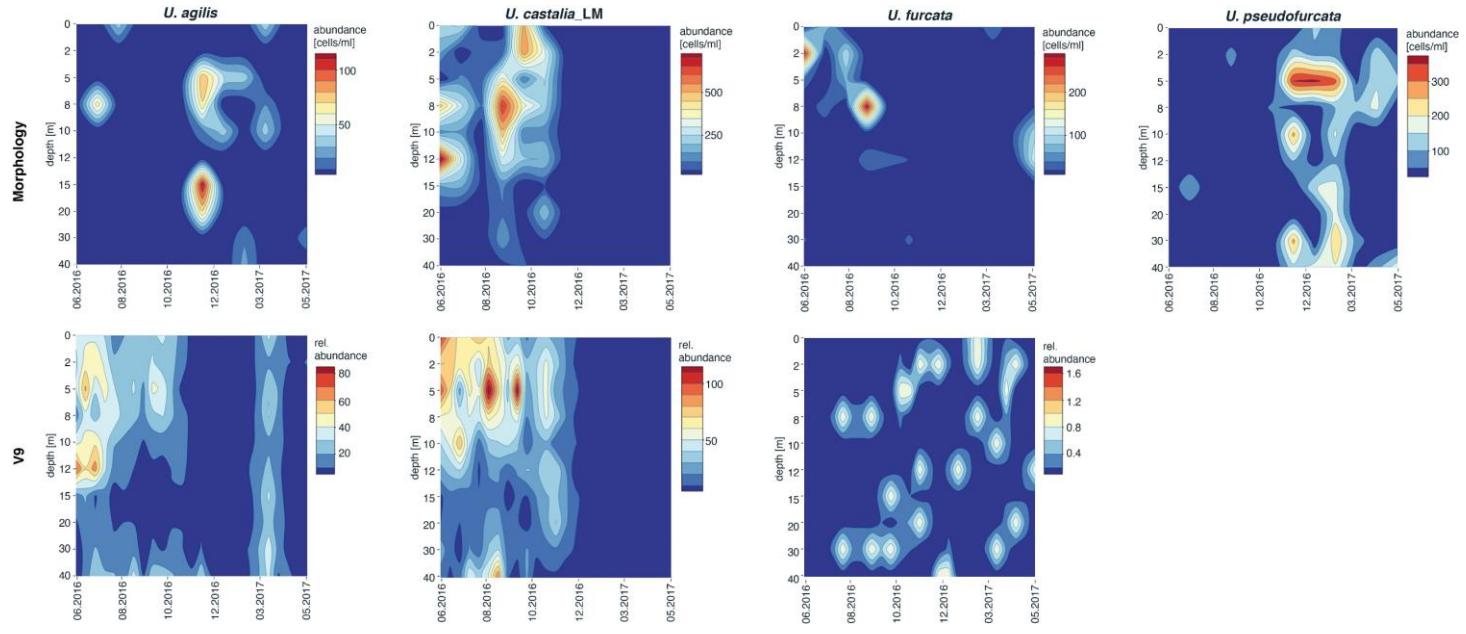


**Supplementary Figure 3 |** Survival experiments with *Urotricha castalia* (strain CIL-2017/25) from Lake Mondsee, Austria. **(A)** Test of eight media plus SAG 26.80 *Cryptomonas* sp. as food source: Woods Hole MBL medium (WC), mixtures of WC:Volvic® mineral water (V) in 1:1, 1:5, 5:1 v/v; Volvic® mineral water only; modified Bourrelly medium; modified blue-green medium (BG11); sterile-filtered original lake water. **(B)** Test of five algal strains as food source in WC:V 5:1 v/v: MS-2017/1 *Coelastrum* sp., MS-2017/2 *Choricystis* sp., MS-2017/7 *Acutodesmus obliquus*, MS-2017/8 *Cosmarium* sp., and SAG 26.80 *Cryptomonas* sp.

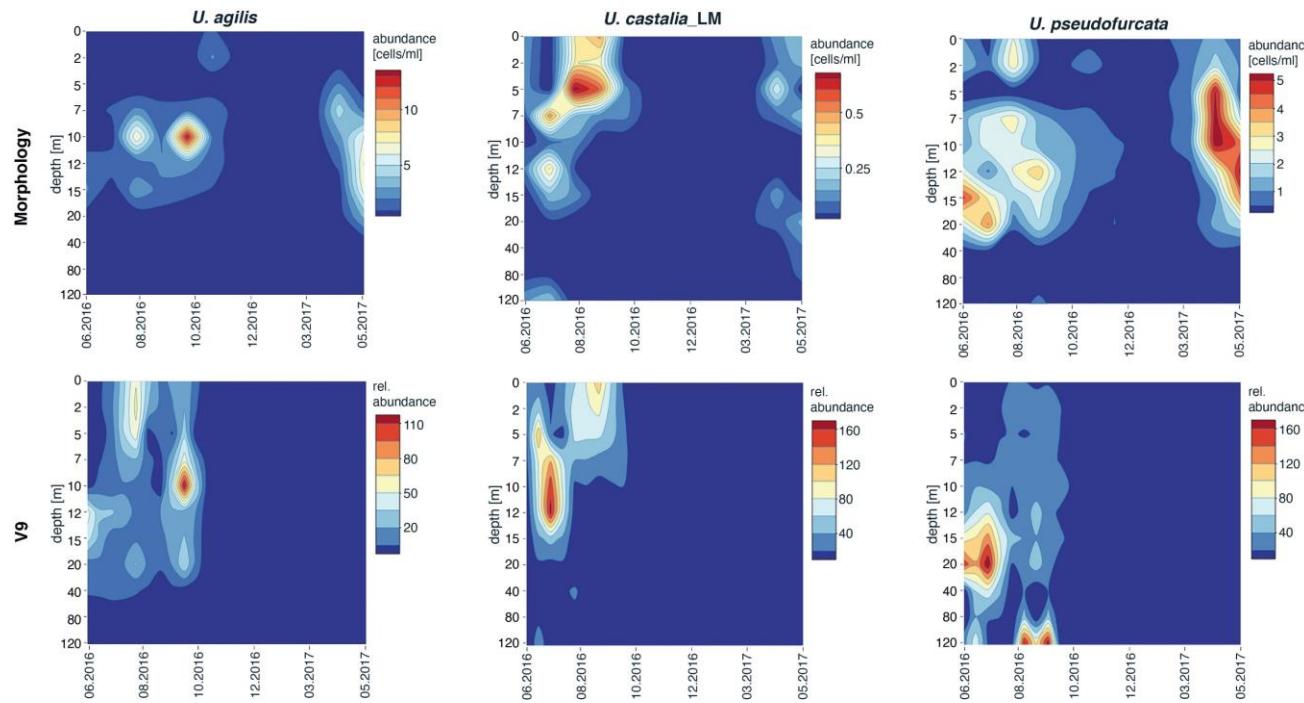
## V9 region of the SSU (Helix 49)



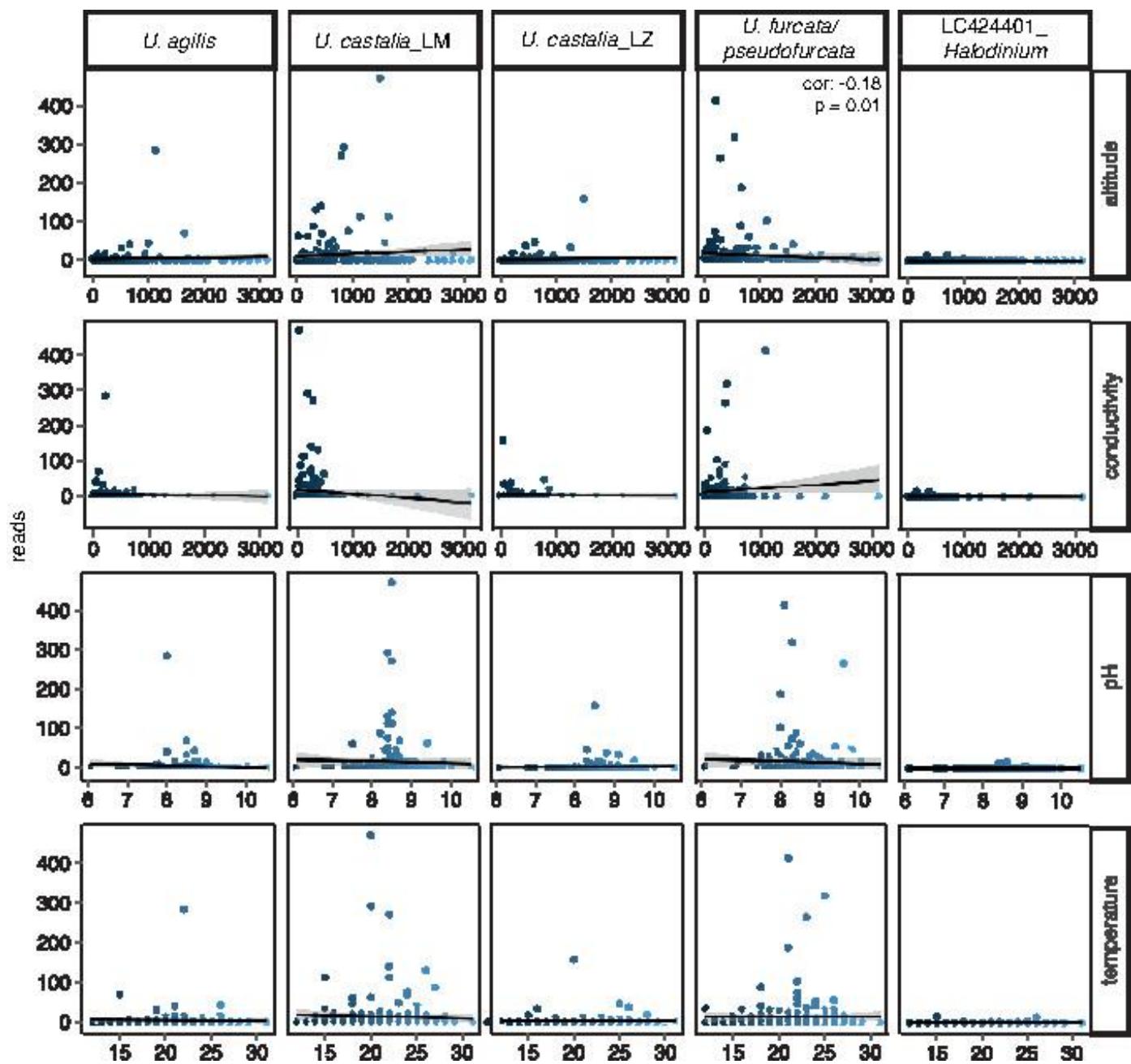
**Supplementary Figure 4** | V9 secondary structures of the investigated *Urotricha* strains. The variable regions are marked by white boxes. The structures were calculated with mfold. The line graphic was drawn with PseudoViewer.

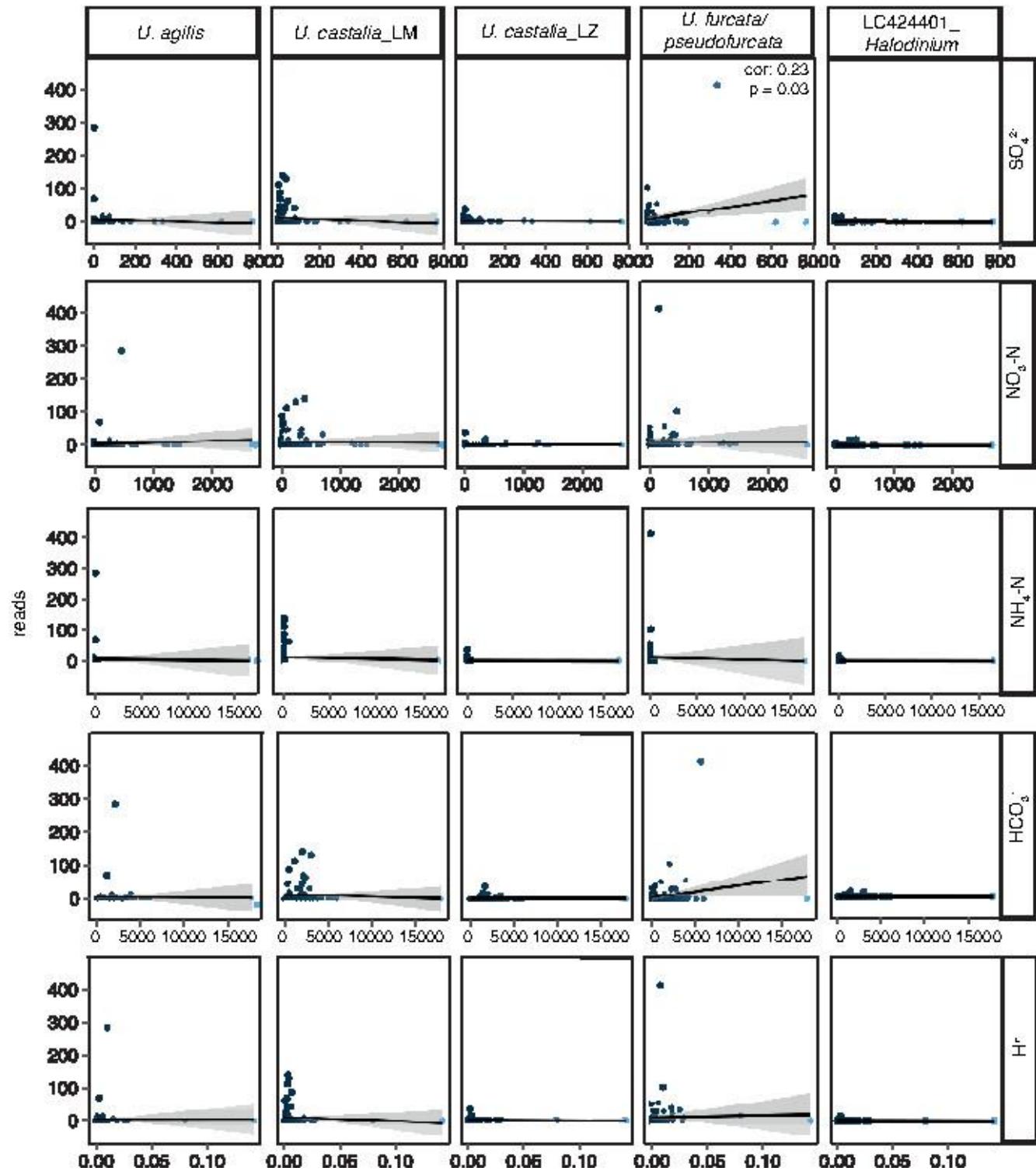


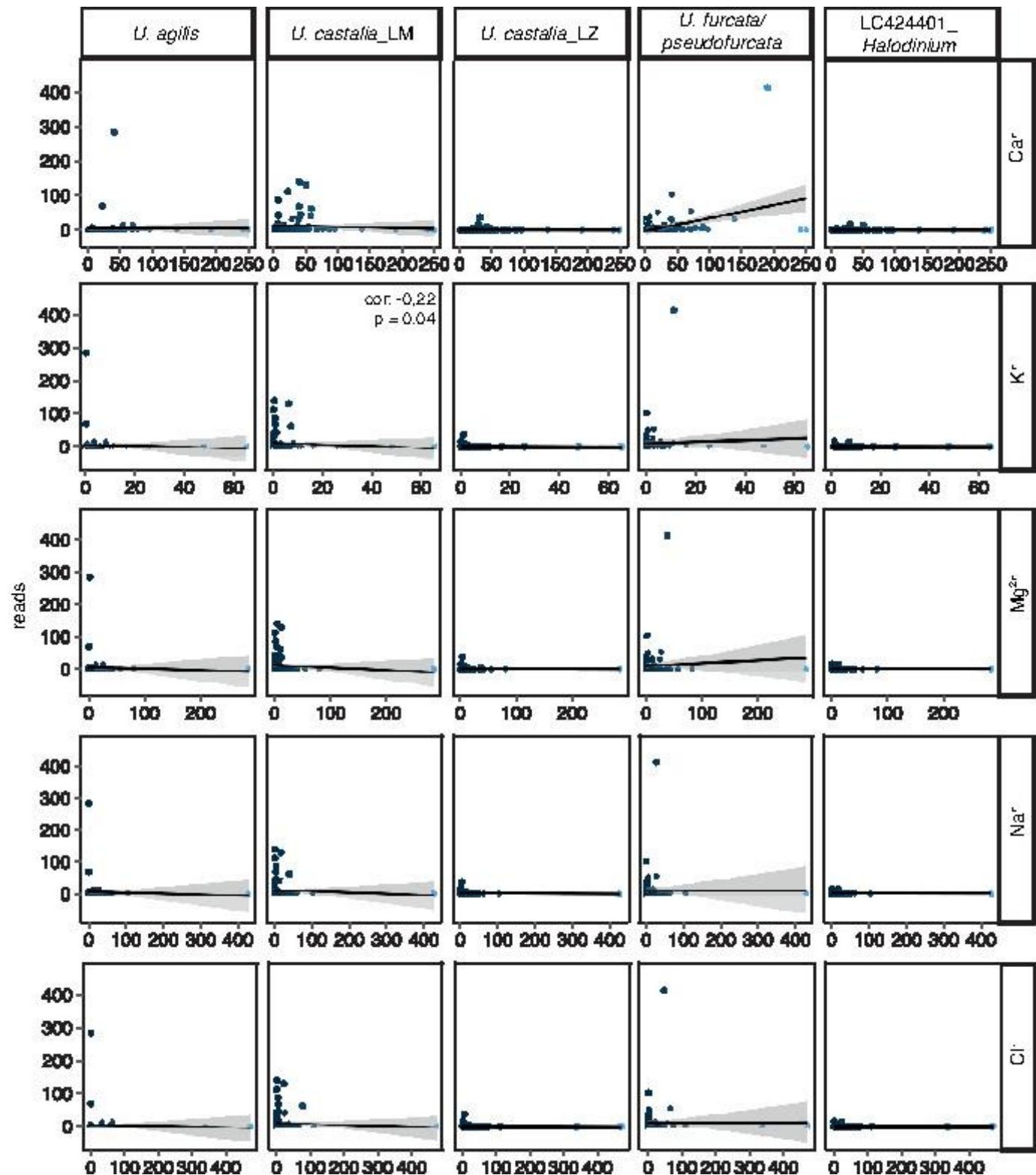
**Supplementary Figure 5 |** Comparison of temporal and spatial distribution of *Urotricha* strains in Lake Mondsee between sequence data (V9 region) and morphology-based count data. Using the morphology-based approach, *U. agilis*, *U. castalia*, *U. furcata*, and *U. pseudofurcata* could be identified and counted. From the V9 dataset, only V9 markers from *U. agilis*, *U. castalia\_LM*, and *U. furcata/U. pseudofurcata* could be extracted and used for the comparison.

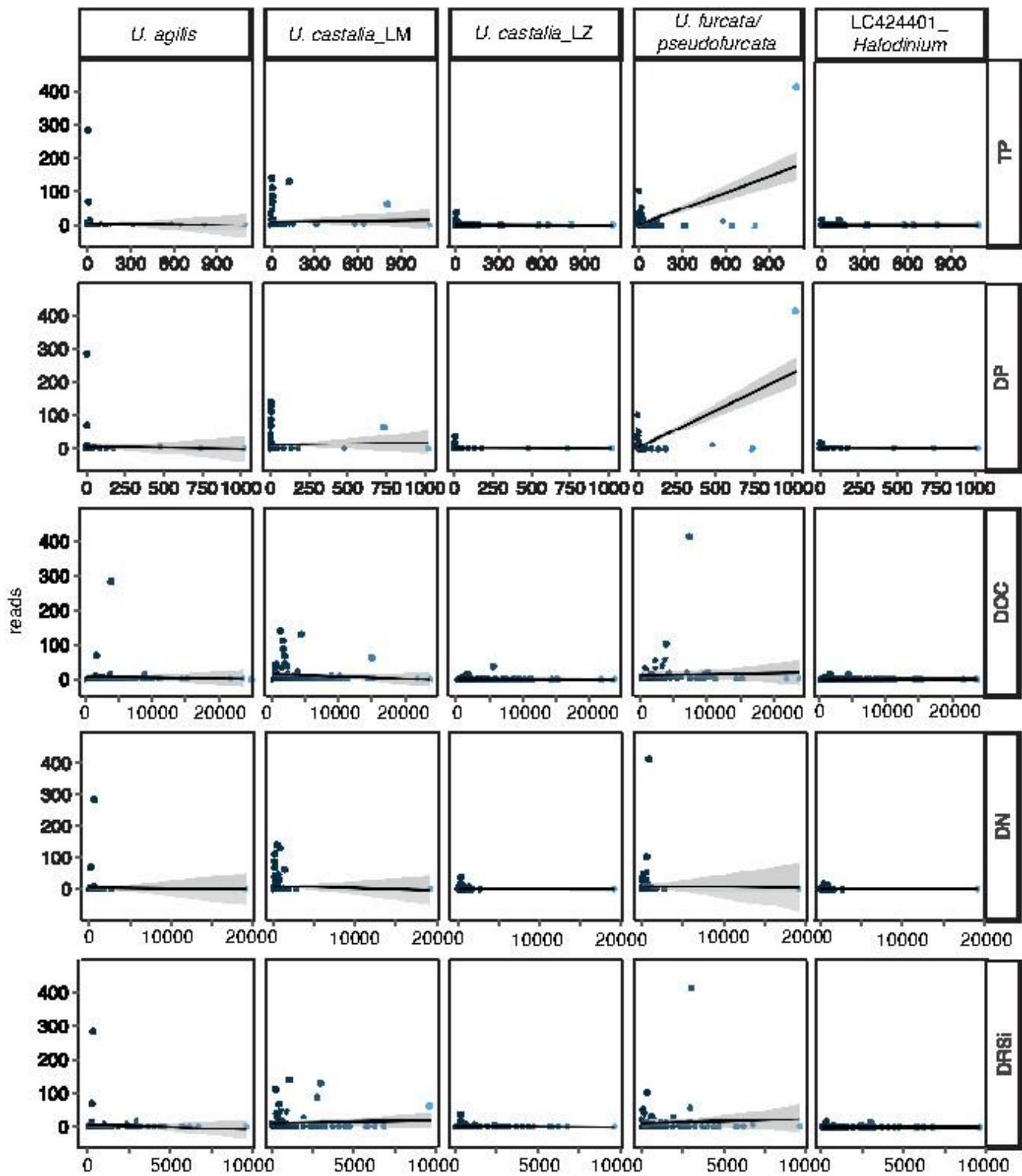


**Supplementary Figure 6 |** Comparison of temporal and spatial distribution of *Urotricha* strains in Lake Zurich between sequence data (V9 region) and morphology-based count data. Using the morphology-based approach, *U. agilis*, *U. castalia* and *U. pseudofurcata* could be identified and counted. From the V9 dataset, only V9 markers from *U. agilis*, *U. castalia\_LM*, and *U. furcata/U. pseudofurcata* could be extracted and used for the comparison.









**Supplementary Figure 7 |** Ecological preferences of the investigated ciliate strains. Read abundances were correlated with and plotted against different environmental parameters. The black lines are regression lines and the gray area indicates the 95%-confidence intervals. Correlations were considered significant when the *p*-value was <0.05.

**Supplementary Table 1** | Valid names of *Urotricha* species according to Aescht (2012). Doubtful species were excluded (for details, see Foissner and Pfister, 1997).

Accepted name	Possible synonym	Comments	Caudal Cilia #	Habitat
<i>Urotricha agilis</i> (Stokes, 1886) Kahl, 1930	<i>Urotricha gyrans</i> (Stokes, 1887) Foissner, 1979		1	freshwater
	<i>Urotricha nais</i> Muñoz et al., 1987		1	freshwater
<i>Urotricha baikalensis</i> Alekperov et al., 2012			1	freshwater
<i>Urotricha corlissiana</i> Song and Wilbert, 1989	<i>Urotricha platystoma</i> Stokes, 1886		1	freshwater
<i>Urotricha discolor</i> Kahl, 1930			1	freshwater
<i>Urotricha dragescoi</i> Foissner, 1984	<i>Urotricha armata</i> Kahl, 1927 sensu Dragesco et al., 1974		1	freshwater
<i>Urotricha farcta</i> Claparède and Lachmann, 1859	<i>Urotricha fareta</i> Claparède and Lachmann, 1859 (misspelling)		1	freshwater
	<i>Urotricha gyrans</i> (Stokes, 1887) Foissner, 1979		1	freshwater
	<i>Urotricha minkewicki</i> Schouteden, 1906		1	freshwater
	<i>Urotricha minkewickzi</i> Schouteden, 1906 (misspelling)		1	freshwater
	<i>Urotricha parvula</i> Penard, 1922		1	freshwater
<i>Urotricha globosa</i> Schewiakoff, 1892			1	freshwater
<i>Urotricha gracilis</i> Penard, 1922			1	freshwater
<i>Urotricha lagenula</i> Ehrenberg-Kent, 1881			1	freshwater
<i>Urotricha lemani</i> Foissner et al., 1994	<i>Urotricha armata</i> Dragesco, 1960	<i>Urotricha lemani</i> is the replacement name for the junior primary homonym <i>U. armata</i> Dragesco, 1960	1	freshwater
<i>Urotricha nais</i> Muñoz et al., 1987	Probably synonym of <i>Urotricha agilis</i> (Stokes, 1886) Kahl, 1930		1	freshwater
<i>Urotricha ondina</i> Muñoz et al., 1989			1	freshwater
<i>Urotricha ovata</i> Kahl, 1926	Possibly, a synonym of <i>Urotricha farcta</i> Claparède and Lachmann, 1859		1	freshwater
<i>Urotricha platystoma</i> Stokes, 1886	<i>Urotricha armata</i> , Kahl, 1927		1	freshwater
	<i>Urotricha corlissiana</i> Song and Wilbert, 1989		1	freshwater
<i>Urotricha psenneri</i> Sonntag and Foissner, 2004			1	freshwater

<i>Urotricha pusilla</i> Penard, 1922		Kahl (1930) doubted that this species was an <i>Urotricha</i>	1	freshwater
<i>Urotricha ristoi</i> Krainer, 1995			1	freshwater
<i>Urotricha sphaerica</i> Grolieré, 1977			1	freshwater
<i>Urotricha synuraphaga</i> Kahl, 1927			1	freshwater
<i>Urotricha vitrea</i> Martín-Gonzalez et al., 1985			1	freshwater
<i>Urotricha furcata</i> Schewiakoff, 1892			2	freshwater
<i>Urotricha macrostoma</i> Foissner, 1983			2	freshwater
<i>Urotricha pseudofurcata</i> Krainer, 1995			2	freshwater
<i>Urotricha cyrtonucleata</i> Martin and Montagnes, 1993			3	marine, brackish
<i>Urotricha spetai</i> Foissner, 2012			4	freshwater
<i>Urotricha matthesi matthesi</i> Krainer, 1995	<i>Urotricha matthesi</i> , Krainer, 1995		3-4	freshwater
<i>Urotricha matthesi tristicha</i> Foissner and Pfister, 1997			4-5	freshwater
<i>Urotricha tricha</i> Wang and Nie, 1933			4, rarely 5-6	freshwater
<i>Urotricha castalia</i> Muñoz et al., 1987	<i>Urotricha rotunda</i> , Fernandez-Leborans and Novillo, 1994		4-9	freshwater
<i>Urotricha antarctica</i> Wilbert and Song, 2008			ca. 6	marine, brackish
<i>Urotricha multisetosa</i> Wang & Nie, 1933	<i>Urotricha faurei</i> Dragesco et al., 1974		At least 10	freshwater
<i>Urotricha apsheronica</i> Alekperov, 1984			12-16	freshwater
<i>Urotricha pelagica</i> Kahl, 1935		Redescribed by Foissner and Pfister (1997) who mentioned high similarity to <i>U. apsheronica</i>	14-18	freshwater
<i>Urotricha terricola</i> Alekperov and Musayev, 1988		Redescription required according to Foissner and Pfister (1997)	16	soil
<i>Urotricha simonsbergeri</i> Foissner et al., 1999			ca. 25	freshwater
<i>Urotricha venatrix</i> (Kahl, 1935) Foissner and Pfister, 1997			27-35	freshwater

**Supplementary Table 4 | Main morphometric data on the investigated *Urotricha* strains.**

Measurements in µm. CV = coefficient of variation in %, M = median, IV = *in vivo*, Max = maximum, Mean = arithmetic mean, Meth = applied methods, Min = minimum, n = number of specimens investigated, P = after protargol staining, QPS = after quantitative protargol staining, SD = standard deviation. Corresponding strains are color-coordinated. *Urotricha agilis* (CIL-2017/24, CIL-2019/10), *Urotricha furcata* (CIL-2019/13 and CIL-2019/6), *Urotricha pseudofurcata* (CIL-2019/3), and *Urotricha castalia* (CIL-2017/25, CIL-2017/27, and CIL-2019/1; CIL-48 is the original monoculture of *U. castalia* of which the clonal strain CIL-2019/1 derived).

Character	Strain	Meth.	Mean	M	SD	SE	CV	Min	Max	n
Cell, length	CIL-2017/24	IV	17.9	18.1	2.0	0.4	10.9	14.1	22.8	21
		P	13.8	13.9	1.3	0.2	9.3	10.3	16.3	33
	CIL-2019/10	IV	16.4	16.5	1.7	0.4	10.4	13.3	19.2	21
		P	11.4	11.0	1.5	0.3	13.2	8.7	14.5	21
	CIL-2019/13	IV	22.4	21.7	3.9	0.8	17.2	16.6	35.2	21
	CIL-2019/6	P	16.0	16.3	2.0	0.4	12.7	10.7	18.5	23
	CIL-2019/3	IV	19.8	19.9	2.3	0.5	11.4	15.7	23.8	21
		P	12.8	12.2	2.4	0.5	19.1	8.5	19.8	23
	CIL-2017/25	IV	38.7	38.9	5.6	1.2	14.5	26.1	50.6	21
		P	21.8	22.1	2.8	0.6	12.7	17.7	28.2	23
Cell, width	CIL-2017/27	IV	49.1	48.7	6.2	1.4	12.6	37.9	59.2	21
		P	23.6	23.9	3.4	0.7	14.5	17.0	29.0	23
	CIL-2019/1	IV	39.7	39.9	7.7	1.7	19.3	25.4	53.3	21
		P	30.1	29.1	4.1	0.8	13.7	24.4	41.5	27
	CIL-2017/24	IV	11.7	11.7	1.8	0.4	15.3	8.9	16.1	21
		P	10.6	10.5	1.6	0.3	14.9	8.0	13.5	33
	CIL-2019/10	IV	11.8	11.6	1.4	0.3	12.1	9.1	14.4	21
		P	8.0	8.0	1.3	0.3	16.4	6.0	11.0	21
	CIL-2019/13	IV	14.7	14.3	3.7	0.8	25.1	10.3	28.5	21
	CIL-2019/6	P	13.2	13.4	2.0	0.4	15.5	10.4	16.3	23
Cell length: width, ratio	CIL-2019/3	IV	13.7	12.7	2.4	0.5	17.9	10.4	18.5	21
		P	9.3	8.6	2.2	0.5	23.8	6.2	14.2	23
	CIL-2017/25	IV	31.4	30.3	4.7	1.0	14.9	24.9	43.8	21
		P	15.8	15.7	2.0	0.4	12.4	13.3	19.4	23
	CIL-2017/27	IV	35.9	37.3	6.2	1.4	17.4	25.1	43.6	21
		P	17.8	17.6	2.4	0.5	13.3	14.1	22.9	23
	CIL-2019/1	IV	35.5	35.8	6.2	1.4	17.5	25.5	46.4	21
		P	25.9	25.4	4.1	0.8	15.9	20.7	37.6	27
Distance between circumoral kinety and somatic kineties	CIL-2017/24	IV	1.5	1.5	0.2	0.0	10.9	1.2	1.9	21
		P	1.3	1.3	0.2	0.0	12.0	1.0	1.6	33
	CIL-2019/10	IV	1.4	1.4	0.2	0.0	14.1	1.1	1.9	21
		P	1.5	1.4	0.2	0.0	12.6	1.1	1.8	21
	CIL-2019/13	IV	1.5	1.5	0.2	0.0	11.1	1.2	1.9	21
		P	1.2	1.2	0.2	0.0	15.5	0.9	1.7	23
	CIL-2019/3	IV	1.5	1.5	0.2	0.0	11.0	1.2	1.8	21
		P	1.4	1.4	0.1	0.0	10.0	1.2	1.8	23
	CIL-2017/25	IV	1.2	1.2	0.2	0.0	14.0	0.8	1.6	21
		P	1.4	1.4	0.2	0.0	12.3	1.1	1.8	23
	CIL-2017/27	IV	1.4	1.3	0.2	0.0	12.9	1.2	1.8	21
		P	1.3	1.3	0.1	0.0	10.1	1.1	1.6	23
	CIL-2019/1	IV	1.1	1.2	0.2	0.0	17.6	0.8	1.4	21
		P	1.2	1.1	0.1	0.0	7.8	1.1	1.4	27

	P	2.3	2.0	0.8	0.2	35.9	0.5	4.0	21
CIL-2019/10	IV	-	-	-	-	-	-	-	-
	P	2.3	2.0	0.4	0.1	17.3	1.8	3.0	21
CIL-2019/13	IV	-	-	-	-	-	-	-	-
CIL-2019/6	P	1.0	1.0	0.5	0.1	51.6	0.0	1.5	21
CIL-2019/3	IV	-	-	-	-	-	-	-	-
	P	1.2	1.0	1.3	0.1	24.7	1.0	2.0	21
CIL-2017/25	IV	-	-	-	-	-	-	-	-
	P	0.6	0.5	0.4	0.1	61.0	0.1	1.0	21
CIL-2017/27	IV	-	-	-	-	-	-	-	-
	P	0.8	1.0	0.3	0.1	36.0	0.3	1.0	7
CIL-2019/1	IV	-	-	-	-	-	-	-	-
	P	1.0	1.0	0.3	0.1	34.8	0.5	2.0	21
Unciliated posterior portion, length	CIL-2017/24	IV	-	-	-	-	-	-	-
		P	3.5	3.4	0.8	0.2	23.1	2.5	5.7
	CIL-2019/10	IV	-	-	-	-	-	-	-
		P	4.2	4.0	0.6	0.1	13.3	3.0	5.0
	CIL-2019/13	IV	-	-	-	-	-	-	-
	CIL-2019/6	P	3.4	3.5	0.6	0.1	18.3	2.3	4.4
	CIL-2019/3	IV	-	-	-	-	-	-	-
		P	3.5	3.2	1.5	0.3	42.3	1.0	9.0
	CIL-2017/25	IV	10.1	9.1	2.5	0.5	24.9	6.8	15.0
		P	4.2	4.3	0.8	0.2	18.1	3.0	5.7
Caudal cilia, length	CIL-2017/27	IV	-	-	-	-	-	-	-
		P	4.1	3.9	1.0	0.2	25.2	2.4	6.4
	CIL-2019/1	IV	-	-	-	-	-	-	-
		P	6.1	6.3	1.5	0.4	24.0	3.4	9.3
	CIL-2017/24	IV	9.0	8.7	1.7	0.4	19.3	6.3	12.1
		P	7.3	7.4	1.4	0.3	18.9	5.2	9.7
	CIL-2019/10	IV	6.8	6.8	1.0	0.2	15.3	4.8	8.7
		P	7.0	7.0	0.7	0.1	9.7	6.0	8.5
	CIL-2019/13	IV	7.9	7.7	1.3	0.3	15.9	5.5	10.8
	CIL-2019/6	P	6.0	5.9	1.1	0.2	19.1	4.0	8.0
Caudal cilia, number	CIL-2019/3	IV	6.4	6.3	1.1	0.2	16.5	4.8	8.8
		P	6.1	5.7	1.2	0.3	19.9	4.5	8.7
	CIL-2017/25	IV	9.4	9.3	1.1	0.2	12.0	7.3	12.6
		P	5.9	6.0	1.1	0.2	19.4	3.1	8.5
	CIL-2017/27	IV	8.4	8.6	0.9	0.2	10.7	6.7	9.8
		P	6.4	6.7	1.1	0.2	16.6	4.6	8.3
	CIL-2019/1	IV	8.0	8.3	1.5	0.3	19.2	4.3	10.7
		P	5.9	5.1	1.6	0.3	27.3	4.4	10.6
	CIL-2017/24	IV	1.0	1.0	0.0	0.0	0.0	1.0	1.0
		P	1.0	1.0	0.0	0.0	0.0	1.0	1.0
CIL-2019/10	CIL-2019/10	IV	1.0	1.0	0.0	0.0	0.0	1.0	1.0
		P	1.0	1.0	0.0	0.0	0.0	1.0	1.0
	CIL-2019/13	IV	2.0	2.0	0.0	0.0	0.0	2.0	2.0
	CIL-2019/6	P	2.0	2.0	0.0	0.0	0.0	2.0	2.0
	CIL-2019/3	IV	2.0	2.0	0.0	0.0	0.0	2.0	2.0
		P	2.0	2.0	0.0	0.0	0.0	2.0	2.0
	CIL-2017/25	IV	4.5	4.0	0.8	0.2	18.2	4.0	7.0
		P	5.1	5.0	1.0	0.2	19.5	4.0	7.0
	CIL-2017/27	IV	4.4	4.0	0.8	0.2	18.3	4.0	7.0
		P	6.0	6.0	1.1	0.2	18.0	4.0	7.0
	CIL-2019/1	IV	4.7	4.0	0.9	0.2	19.6	4.0	7.0

		P	5.4	5.0	1.3	0.3	23.3	4.0	7.0	19
Somatic cilia, length	CIL-2017/24	IV	4.5	4.6	0.8	0.2	17.7	3.0	6.2	21
		P	4.4	4.3	0.9	0.2	19.9	2.9	6.5	21
	CIL-2019/10	IV	4.1	4.2	1.0	0.2	24.7	2.1	6.3	21
		P	5.5	6.0	0.8	0.2	15.1	4.0	6.5	21
	CIL-2019/13	IV	5.6	5.9	1.0	0.2	17.1	3.2	6.8	21
	CIL-2019/6	P	4.1	4.0	0.8	0.2	19.5	2.6	5.7	23
	CIL-2019/3	IV	4.1	4.2	0.5	0.1	13.2	2.8	5.1	21
		P	4.1	4.1	0.7	0.2	17.1	3.1	6.0	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	3.7	3.7	0.6	0.1	16.0	2.8	5.1	21
Somatic kineties, number	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	21.6	22.0	1.6	0.4	7.5	18.0	24.0	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	17.7	18.0	2.2	0.5	12.5	14.0	22.0	21
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	21.7	22.0	1.7	0.4	8.0	18	24	21
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	19.2	18.0	2.7	0.6	14.1	14.0	24.0	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	35.8	35.0	2.1	0.5	5.8	34.0	42.0	21
Cilia in an anteriorly unshortened somatic kinety, number	CIL-2017/24	IV	9.1	9.0	1.2	0.3	13.0	7.0	12.0	21
		P	8.8	8.0	1.2	0.3	13.9	6.0	11.0	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	5.8	6.0	0.8	0.2	14.4	5.0	7.0	21
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	11.4	11.0	0.9	0.2	7.9	10.0	14.0	21
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	9.6	9.0	1.7	0.4	18.0	8.0	14.0	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	18.0	18.0	3.2	0.7	17.7	13.0	27.0	21
Adoral organelle1, length	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	2.0	2.0	0.2	0.0	11.5	1.5	2.5	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	2.1	2.0	0.3	0.1	12.7	2.0	3.0	21
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	1.9	2.0	0.4	0.1	22.3	1.0	2.5	17
Adoral organelle2, length	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	2.0	2.0	0.2	0.0	11.5	1.5	2.5	21
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	2.0	2.0	0.2	0.0	11.5	1.5	2.5	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	2.1	2.0	0.3	0.1	12.7	2.0	3.0	21

		P	2.0	2.0	0.2	0.0	11.2	1.5	2.5	21
CIL-2017/25	IV	-	-	-	-	-	-	-	-	-
	P	1.9	2.0	0.2	0.0	11.6	1.5	2.0	21	
CIL-2017/27	IV	-	-	-	-	-	-	-	-	-
	P	2.0	-	0.3	0.1	16.5	1.2	2.5	14	
CIL-2019/1	IV	-	-	-	-	-	-	-	-	-
+ CIL-48	P+QPS	2.4	-	0.4	0.1	17.8	2.0	3.0	14	
Adoral organelle 2, length	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	0.9	-	0.1	0.0	12.2	0.8	1.2	18
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	1.0	1.0	0.0	0.0	0.0	1.0	1.0	5
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	1.1	-	0.2	0.1	21.3	0.8	1.5	10
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	1.4	1.5	0.2	0.1	13.2	1.0	1.5	7
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	1.5	1.5	0.2	0.0	14.6	1.2	2.0	21
Adoral organelle 3, length	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	1.3	1.2	0.3	0.1	23.5	1.0	2.0	9
	CIL-2019/1	IV	-	-	-	-	-	-	-	-
	+ CIL-48	P+QPS	1.7	-	0.3	0.1	18.8	1.0	2.0	14
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	0.9	-	0.1	0.0	10.7	0.8	1.0	14
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	1.0	1.0	0.0	0.0	0.0	1.0	1.0	3
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	1.0	-	0.1	0.0	8.4	0.8	1.0	6
Dikinetids in adoral organelle 1, number	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	1.5	1.5	1
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	0.9	1.0	0.2	0.0	20.9	0.2	1.2	19
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	0.9	-	0.3	0.1	28.6	0.5	1.0	4
	CIL-2019/1	IV	-	-	-	-	-	-	-	-
	+ CIL-48	P+QPS	1.0	-	0.3	0.1	31.9	0.5	1.5	14
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	4.1	4.0	0.4	0.1	10.7	3.0	5.0	21
Dikinetids in adoral organelle 2, number	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	4.0	4.0	0.2	0.0	5.4	4.0	5.0	21
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	3.7	4.0	0.5	0.1	13.0	3.0	4.0	19
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	4.0	4.0	0.3	0.1	7.9	3.0	5.0	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	4.0	4.0	0.0	0.0	0.0	4.0	4.0	21
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	4.0	-	0.0	0.0	0.0	4.0	4.0	14
CIL-2019/1	+ CIL-48	P+QPS	4.5	-	0.5	0.1	11.5	4.0	5.0	14
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	2.1	-	0.2	0.1	11.5	2.0	3.0	18

	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	2.0	2.0	0.0	0.0	0.0	2.0	2.0	5
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	2.4	-	0.5	0.1	21.3	2.0	3.0	12
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	2.8	-	0.5	0.3	18.2	2.0	3.0	4
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	3.0	3.0	0.0	0.0	0.0	3.0	3.0	21
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	3.0	3.0	0.0	0.0	0.0	3.0	3.0	9
	CIL-2019/1	IV	-	-	-	-	-	-	-	-
Dikinetids in adoral organelle 3, number	+ CIL-48	P+QPS	3.2	-	0.4	0.1	13.2	3.0	4.0	14
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	1.9	2.0	0.3	0.1	13.4	1.0	2.0	15
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	2.0	2.0	0.0	0.0	0.0	2.0	2.0	3
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	2.0	2.0	0.0	0.0	0.0	2.0	2.0	7
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	3.0	3.0	1
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	2.0	2.0	0.3	0.1	16.7	1.0	3.0	19
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	2.0	-	0.0	0.0	0.0	2.0	2.0	4
	CIL-2019/1	IV	-	-	-	-	-	-	-	-
Circumoral dikinetids/oral flaps, number	+ CIL-48	P+QPS	2.4	-	0.5	0.1	21.1	2.0	3.0	14
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	8.2	8.0	0.5	0.1	6.2	7.0	9.0	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	8.9	9.0	0.8	0.2	9.0	8.0	10.0	21
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	10.0	10.0	1.3	0.3	13.2	7.0	12.0	21
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	10.2	10.0	1.1	0.2	11.1	8.0	12.0	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	17.8	18.0	1.4	0.3	7.7	15.0	21.0	21
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	16.6	17.0	1.3	0.3	7.7	15.0	19.0	21
	CIL-2019/1	IV	-	-	-	-	-	-	-	-
Oral flaps, length		P	23.0	22.0	2.7	0.6	12.0	19.0	29.0	21
	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	1.7	1.7	0.6	0.1	32.0	1.2	3.8	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	1.4	1.3	0.2	0.1	16.8	1.2	2.1	21
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	2.0	2.1	0.4	0.1	21.8	1.2	2.9	23
	CIL-2019/3	IV	-	-	-	-	-	-	-	-
		P	2.0	1.8	0.7	0.1	33.0	0.9	3.3	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	2.2	2.2	0.3	0.1	14.6	1.6	2.8	21
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	2.0	1.9	0.3	0.1	14.2	1.5	2.7	21



	CIL-2019/3	IV	1.7	1.7	0.3	0.1	19.0	0.9	2.3	21
		P	-	-	-	-	-	-	-	-
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	CIL-2017/27	IV	3.0	-	1.3	0.9	44.6	2.0	3.9	2
		P	2.6	2.5	0.5	0.1	18.9	2.0	3.5	21
	CIL-2019/1	IV	2.7	2.5	0.8	0.2	29.8	1.5	4.7	21
		P	-	-	-	-	-	3.0	3.0	1
Micronucleus, width	CIL-2017/24	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	CIL-2019/13	IV	2.2	2.1	0.3	0.1	13.6	1.6	2.7	21
	CIL-2019/6	P	-	-	-	-	-	-	-	-
	CIL-2019/3	IV	1.7	1.7	0.3	0.1	19.7	1.1	2.4	21
		P	-	-	-	-	-	-	-	-
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	CIL-2017/27	IV	2.6	-	0.6	0.5	25.0	2.1	3.0	2
		P	2.0	2.0	0.4	0.1	19.9	1.5	3.0	21
	CIL-2019/1	IV	2.6	2.6	0.7	0.2	28.2	1.4	4.5	21
		P	-	-	-	-	-	2.0	2.0	1
Oral basket, distal diameter	CIL-2017/24	IV	4.0	3.8	1.2	0.3	29.4	2.2	6.9	21
		P	3.6	3.5	0.5	0.1	14.9	2.7	4.9	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	3.6	3.5	0.7	0.2	19.5	2.5	5.0	19
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	4.2	4.1	0.6	0.1	14.5	3.2	5.7	21
	CIL-2019/3	IV								
		P	4.1	4.0	0.6	0.1	14.4	3.0	5.2	23
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	4.6	4.8	0.6	0.1	13.0	3.6	5.8	21
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	4.7	4.8	0.7	0.1	13.9	3.4	6.0	21
	CIL-2019/1	IV	12.7	11.7	3.9	0.8	30.4	5.7	18.7	21
		P	6.8	-	1.3	0.3	18.8	4.3	10.1	24
Oral basket, length	CIL-2017/24	IV	3.6	3.5	1.2	0.3	32.4	2.2	6.4	21
		P	8.4	8.0	1.5	0.3	17.5	5.9	11.5	21
	CIL-2019/10	IV	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	CIL-2019/13	IV	-	-	-	-	-	-	-	-
	CIL-2019/6	P	5.5	5.1	1.5	0.3	27.4	3.9	10.1	21
	CIL-2019/3	IV								
		P	8.4	9.0	2.5	0.8	30.2	3.9	12.0	21
	CIL-2017/25	IV	-	-	-	-	-	-	-	-
		P	10.1	9.5	2.2	0.5	21.8	6.8	15.1	21
	CIL-2017/27	IV	-	-	-	-	-	-	-	-
		P	10.3	9.5	2.4	0.5	23.0	7.2	17.6	21
	CIL-2019/1	IV	14.3	13.3	3.9	0.8	27.1	5.6	23.0	21
		P	11.9	-	2.0	0.4	17.1	8.3	16.2	24
Oral basket width:cell width, in %	CIL-2017/24	IV	0.3	0.4	0.1	0.0	30.4	0.2	0.6	21
		P	0.3	0.4	0.1	0.0	19.1	0.2	0.4	21

