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Global Database of Foraminiferal Organic Linings: ForamL Version 1.2

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Summary

This database is a collection of references to illustrations of Foraminiferal Organic Linings (FOLs) published in available scientific literature. FOLs are extracted from recent marine samples and sedimentary rocks worldwide. The analysis of the publications led to the collection of 155 scientific reports that illustrate 614 foraminiferal organic linings. All linings have been assigned to supraordinal groups of Foraminifera (Pawlowski et al. 2013), as well as to basic morphologic types of chamber arrangements. The database consists of three tables that cover the whole Phanerozoic split to the Cenozoic, Mesozoic, Paleozoic, and then to systems/periods, i.e. Quaternary, Neogene, Paleogene, Cretaceous, Jurassic, Triassic and older intervals. For each system, scientific publications are referenced chronologically, according to a publication year. The main principle to collect the data was the preparation method based on palynological procedures. The procedures included treating samples with hydrochloric acid (HCl) to remove carbonates, following with hydrofluoric acid (HF) to remove silicates from the sample. The next step was to sieve the extracted organic matter through a 10 or 15 or 20 μm sieve to separate larger organic particles, including palynomorphs with foraminiferal organic linings, for further preparation of palynological slides. Most researchers identified organic residues in palynological slides under optical microscopes equipped in either analogue or digital cameras. Some authors used a scanning electron microscope (SEM) as a supplementary method of documentation. The purpose of gathering the data is to extend scientific knowledge on the origin, taphonomy, and phylogenetic patterns of these fossilizable organic foraminiferal structures. The most recent review of the knowledge on foraminiferal organic linings is presented by Tyszka et al. (2021). The ForamL database will be further supplemented by available records of foraminiferal organic linings, therefore, any new graphic contribution of published and unpublished specimens of FOLs is welcome.

Pawlowski, J., Holzmann, M., Tyszka, J., 2013. New supraordinal classification of Foraminifera: Molecules meet morphology. *Marine Micropaleontology*, 100: 1-10, https://doi.org/10.1016/j.marmicro.2013.04.002

Tyszka J., Godos K., Goleń J., Radmacher W., 2021. Foraminiferal organic linings: Functional and phylogenetic challenges, *Earth-Science Reviews*, 103726, https://doi.org/10.1016/j.earscirev.2021.103726

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PERIOD	Monothalamids	Globothalamea	Tubothalamea	Lagenida	indetermined / unidentified	ALL FORAM. ORGANIC LININGS	Publication number	Publication	Publication page/s	Original plate / figure	Database Figure(s)	spiral	biserial	high trochospiral/ triserial & more	uniserial	spiral-to-uniserial	spiral-to-biserial	Undetermined or single chambers	ALL FORAM. ORGANIC LININGS
QUATERNARY		3		1		4	1	Veen (1957)	74	text-figures. 1-4	Q1-4	2	1			1			4
		1				1	2	Muller (1959)	31	pl. 1 fig. 13	Q5	1							1
		5				5	3	Traverse & Ginsburg (1966)	435	pl. I fig. 11-15	Q6-10	4						1	5
		1				1	4	Bakker & van Smeerdijk (1982)			Q11	1							1
		16			1	17	5	Stancliffe et al. (1991)		pl. 2 fig. 1-10; pl. 3 fig. 1-8	Q12-29	12	1		1			3	17
		5				5	6	De Vernal et al. (1992)	528	fig. 2 fig. b, f, d, h, j	Q30-34	4		1					5
		1				1	7	Van Waveren et al. (1994)	94	pl. I fig. 8	Q35	1							1
		6				6	8	Wrenn et al. (1998)	557, 558	fig. 3 fig. D; fig. 4 fig. a, c, d, e	Q36-41	5						1	6
		2				2	9	Murray & Alve (1999)	202	pl. II fig. 3, 5	Q42,43	2							2
		1				1	10	Booth et al. (1999)	81	pl. 1 fig. 7	Q44	1							1
		1				1	11	Borromei et al. (2001)	67	pl. I fig. 8	Q45	1							1
		1				1	12	Šparica et al. (2005)	69	pl. VIII fig. 4	Q46	1							1
		2				2	13	Roncaglia et al. (2006)	28	fig. h, i	Q47,48	2							2
		5				5	14	Limaye et al. (2007)	1372, 1373	fig. 2 fig. l; fig. 3. l	Q49,50	3	2						5
		1				1	15	Kumaran et al. (2008)	524	fig. 6 fig. m	Q51	1							1
		2				2	16	Mertens et al. (2009)	652	fig. 5 fig. g, h	Q52,53	2							2
		1				1	17	Candel et al. (2009)	115	fig. 3 fig. 11	Q54	1							1
		1				1	18	Nair et al. (2010)	367	fig. 6 fig. 27	Q55	1							1
		1				1	19	Pospelova et al. (2010)	44	pl. 2 fig. k	Q56	1							1
		1				1	20	Kholeif (2010)	148	pl. 1 fig. 19	Q57	1							1
		2				2	21	Mudie et al. (2010)	540	fig. 5 fig. 33, 34	Q58,59	1		1					2
		1				1	22	Cook et al. (2011)	168	pl. 2 fig. 8	Q60	1							1
		5				5	23	Pieńkowski et al. (2011)	845	fig. 5 fig. l-p	Q61-65	3	1	1					5
		2				2	24	Padmalal et al. (2011)	133, 134	fig. 9 fig. t; fig. 10 fig. z	Q66,67	2							2
		3				3	25	Mudie et al. (2011)	18	pl. 3 fig. 7, 13, 14	Q68-70	2			1				3
		3				3	26	Pieńkowski et al. (2012)	154	fig. 9 fig. k, l, m	Q71-73	1	1		1				3
		2				2	27	Montoya et al. (2012)	120, 121	pl. V fig. 94; pl. VI fig. 94	Q74,75	2							2
		1				1	28	Ní Fhlaithearta et al. (2013)	70	1(a ,b, c)	Q76	1							1
		2				2	29	Srivastava et al. (2013)	7	pl. 1 fig. 16, 17	Q77,78	2							2
		2				2	30	Padmalal et al. (2014)	168	fig. 9 fig. 28, 29	Q79,80	2							2
		1				1	31	Yanko-Hombach et al. (2014)	108	fig. 6	Q81	1							1
		1				1	32	Vishnu et al. (2014)	73	fig. 6 fig. O	Q82	1							1
		2				2	33	Yao (2015)	72	fig. 5f fig. 1, 2	Q83,84	2							2
		1				1	34	Banerji et al. (2015)	437	fig. 10 fig. 24	Q85	1							1
		2				2	35	Shumilovskikh et al. (2016)	175	pl. 1 fig. 1, 2	Q86,87	2							2
		1				1	36	Pandey (2018)	6	pl. 1 fig. 25	Q88	1							1
		5				5	37	Hartman et al. (2018)	462, 465	pl. 3 fig. 5, 6; pl. 4 fig. 3, 4, 8	Q89-93	2	1		2				5
		4				4	38	Adojoh et al. (2019)	190	pl. 3 fig. 70-72, 74	Q94-97	2	1					1	4
		1				1	39	Caron et al. (2019)	571	fig. 2 fig. K	Q98	1							1
		3				3	40	Da Silva et al. (2020)	801	fig. 3 fig. M-O	Q99-101	3							3
		10		7	2	19	41	Mudie et al. (2020)	19, 20	fig. 12 fig. 3-12; fig.13 fig. 5-10, 12-16	Q102-120	10			2			7	19
		5				5	42	Shnyukov et al. (2020)	469	fig. 11.18 fig. 1-7	Q121-125	4						1	5
		7				7	43	Kumar et al. (2021)	156	pl. 6 fig. 11-17	Q126-132	6			1				7
	0	**123**	**0**	**8**	**3**	**134**	**43**	**TOTAL / QUATERNARY**				**100**	**8**	**3**	**8**	**1**	**0**	**14**	**134**
NEOGENE		1				1	1	Ediger et al. (1996)	205	pl. 6 fig. 10	Ng1	1							1
		2				2	2	Head et al. (1999)	4	fig. 3 fig. 3, 7	Ng2,3	2							2
		1				1	3	Londeix et al. (1999)	81	pl. 3 fig. 9	Ng4	1							1
		2				2	4	Carballo et al. (2005)	236	fig. 5 fig. l, m	Ng5,6	2							2
		1				1	5	Doláková et al. (2011)	68	pl. 1 fig. 1	Ng7	1							1
		3				3	6	Singh et al. (2011)	60	fig. 4 fig. 1-3	Ng8-10	3							3
		1				1	7	Hapsari et al. (2012)		fig. 4	Ng11	1							1
		1				1	8	Ottone et al. (2013)	516	fig. 5 fig. 1	Ng12	1							1
		1				1	9	El Atfy et al. (2014)	334	pl. II fig. g	Ng13	1							1
		2				2	10	Bankole et al. (2014)	57	pl. 3 fig. 19, 20	Ng14,15	1	1						2
		1				1	11	Antonioli et al. (2015)	142	pl. 2 fig. 16	Ng16	1							1
		10				10	12	Boonstra et al. (2015)	189	pl. IV fig. a-j	Ng17-26	10							10
		1				1	13	D'Apolito (2016)	168	pl. 26 fig. 3	Ng27	1							1
		1				1	14	Adebayo et al. (2016)	579	fig. 5 fig. 11	Ng28	1							1
		10				10	15	Mudie et al. (2017)	132	fig. 2 (L) fig. a, b, d, e, g-j, fig. 3(R) fig. a, c	Ng29-38	10							10
		4				4	16	Ocakoğlu et al. (2018)	516	fig. 10 fig. 14-17	Ng39-42	3				1			4
	0	**42**	**0**	**0**	**0**	**42**	**16**	**TOTAL / NEOGENE**				**40**	**1**	**0**	**0**	**1**	**0**	**0**	**42**
PALEOGENE		4				4	1	Oloto (1992)	449	pl. 3 fig. 9-12	Pg1-4	2	2						4
		2				2	2	Mahmoud et al. (1993)	245	fig. 3 fig. 10, 11	Pg5,6	2							2
		12				12	3	Tabaei et al. (2002)		pl. 1 fig. 1-12	Pg7-18	7						5	12
		2				2	4	Ramírez (2004)		pl. 9 fig. 12, 13	Pg19,20	1	1						2
		1				1	5	Oreshkina et al. (2007)	218	pl. III fig. 22	Pg21	1							1
		1				1	6	Jaramillo et al. (2007)	179	pl. 6 fig. 39	Pg22	1							1
		2				2	7	Bati et al. (2007)	278	pl. 9 fig. 13, 14	Pg23,24	2							2
		1				1	8	Barski et al. (2010)	126	fig. 4 fig. 15	Pg25	1							1
		6				6	9	Singh et al. (2010)		fig. 6 fig. k-p	Pg26-31	6							6
		2				2	10	Digbehi et al. (2012)	35	pl. 2 fig. w, x	Pg32,33	2							2
		1				1	11	Rao et al. (2013)	294	pl. 2 fig. 31	Pg34	1							1
		1				1	12	Prasad et al. (2013)	750	fig. 9 fig. l	Pg35	1							1
		2				2	13	Storkey (2013)	191	pl. 28 fig. 4, 5	Pg36,37	2							2
		4				4	14	Singh et al. (2015)	447	5 (i, m-o)	Pg38-41	4							4
		18				18	15	Monga et al. (2015)	132, 133	fig. 2 fig. 1-3; pl. 1 fig. 1-17	Pg42-59	17			1				18
		1				1	16	Nicolai (2016)	43	pl. VII fig. c	Pg60	1							1
		1				1	17	Singh et al. (2017)	230	fig. 5 fig. k	Pg61	1							1
		1				1	18	Chukwura et al. (2017)	6	fig. 3b fig. 10	Pg62	1							1
		5				5	19	Khan et al. (2018)	98	pl. 2 fig. 4, 5	Pg63-66	5							5
	0	**67**	**0**	**0**	**0**	**67**	**19**	**TOTAL / PALEOGENE**				**58**	**3**	**0**	**1**	**0**	**0**	**5**	**67**

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CRETACEOUS		6				6	1	Góczán (1962)	209	tabla IV fig. 1-6	Cr1-6	6							6
		12		1		13	2	Deak (1964)		tab. VIII fig. 7-11; tab. IX Fig. 12-15; tab. X fig.16-19	Cr7-19	12			1				13
		3				3	3	Tyson (1995)		pl. C fig. C9, C10	Cr20,21	2					1		3
		1				1	4	El Beialy (1995a)	312	pl. III fig. 8	Cr22	1							1
		1				1	5	El Beialy (1995b)	671	pl. 84 fig. 9	Cr23	1							1
		4				4	6	Prössl (1996)	91, 95	fig. 4 fig. 5; fig. 6 fig. 6, fig 33, 34	Cr24-27	2	2						4
		5				5	7	Lana & Gupta (2001)	99	fig. 2 fig. a-g	Cr28-32	5							5
		2				2	8	Carvalho (2001)		pl. 6 fig. 6, 7	Cr33,34	1	1						2
		1				1	9	Skupien (2003)	82	pl. VI fig. 13	Cr35	1							1
		1				1	10	Čech et al. (2005)	354	pl. V fig. 17	Cr36	1							1
		1				1	11	Olusola (2010)	227	pl. 1 fig. 10	Cr37				1				1
		1				1	12	Villanueva-Amadoz et al. (2011)	159	fig. 16 fig. b	Cr38	1							1
		1				1	13	Al-Ameri et al. (2011)		fig. 12	Cr39	1							1
		1				1	14	Peyrot et al. (2012)	28	fig. 3 fig. b	Cr40	1							1
		1				1	15	Torices et al. (2012)	166	fig. 5 fig. 31	Cr41	1							1
		1				1	16	Alaug et al. (2013)	86	fig. 21 fig. 32	Cr42		1						1
		1				1	17	Atta-Peters et al. (2013)	37	pl. II fig. 5	Cr43	1							1
		2				2	18	di Pasquo et al. (2013)	145	fig. 8 fig. AA, z	Cr44,45	2							2
		1				1	19	Radmacher et al. (2014a)	119	pl. 3 fig. l	Cr46	1							1
		1				1	20	Radmacher et al. (2014b)	317	pl. 9 fig. 11	Cr47	1							1
		1				1	21	Vašíček et al. (2014)	155	fig. 8 fig. m	Cr48	1							1
		2				2	22	Al-Ameri et al. (2014)	1444	fig. 10 fig. d1, d2	Cr49,50	2							2
	0	46	0	2	0	48	23	Shevchuk et al. (2015)	62, 63	tab. I fig.1-12; tab. II fig.1-9; tab. III fig.1-13; tab. IV fig.1-10abc, 11, 12	Cr51-98	41	3	2	2				48
		1				1	24	Radmacher et al. (2015)			Cr99	1							1
		1				1	25	Unida et al. (2016)	10	pl. 1 fig. 9	Cr100	1							1
		1				1	26	Jayeola et al. (2016)		pl. 5	Cr101	1							1
		2				2	27	Mahmoud et al. (2017)	460, 461	fig. 6 fig. m; fig. 7 fig. b	Cr102,103	2							2
		1				1	28	McLachlan (2017)	166	pl. 4.25 fig. i	Cr104	1							1
		1				1	29	Rodríguez-Barreiro et al. (2018)	586	fig. 6 fig. i	Cr105	1							1
		1				1	30	Michels et al. (2018)	793	fig. 7 fig. p	Cr106	1							1
		4				4	31	Amiewalan et al. (2018)	1175	pl. II fig. 1, 2, 3, 5	Cr107-110	3			1				4
		2				2	32	Mohamed et al. (2018)	140	fig. 5 fig. 23, 24	Cr111,112	2							2
		5		1		6	33	Mansour et al. (2019)	12	pl. 4 fig. a-f	Cr113-116	4				1		1	6
		1		1		2	34	Edegbai et al. (2019)	6	fig. 5 fig. b	Cr117,118	1				1			2
		1				1	35	Jurkova et al. (2019)	32	fig. 8 fig. E	Cr119	1							1
		2				2	36	Radmacher et al. (2020)	5	fig. 2h	Cr120,121	2							2
		1				1	37	Chafeet et al. (2020)	1075	pl. 4a fig. 5	Cr122	1							1
		12				12	38	Godos et al. (2021)- submitted, under revision		fig. 5M-Y	Cr123-134	12							12
	0	**132**	**0**	**5**	**0**	**137**	**38**	**TOTAL / CRETACEOUS**				**119**	**7**	**2**	**5**	**2**	**1**	**1**	**137**
JURASSIC		1				1	1	Porter (1988)	32	pl. III fig. 7	J1	1							1
		1				1	2	Shahin et al. (1989)	571	fig. 5 fig. 28	J2	1							1
		17		5		22	3	Stancliffe (1989)	345, 347, 349	text- figure 6 fig. a, b; text- figure 7 fig. a, b; pl. 1 fig. 1-9; pl. 2 fig. 1-9	J3-24	12	2	1	2	3		2	22
		13				13	4	Misik & Sotak (1998)	121	pl. VII fig. a-m	J25-37	10	3						13
		2				2	5	Ibrahim et al. (2002)	686, 688	pl. 2 fig. l; pl. 3 fig. f	J38,39	2							2
		1				1	6	Koppelhus et al. (2003)	807	pl. 4 fig. 3	J40	1							1
		1				1	7	Koppelhus et al. (2003)	173	pl.7 fig.7	J41	1							1
		1				1	8	Hamad et al. (2005)	241	pl. V fig. 17	J42	1							1
		1				1	9	Sajjadi et al. (2007)	405	pl. 2 fig. 16	J43	1							1
		31		2	1	34	10	Gedl (2008)	72, 82, 116, 122, 129, 138, 140, 141, 150, 154, 156, 158, 171, 174, 178, 181	fig. 52 fig. d; fig. 63 fig. h, j, y; fig. 94 fig. c, j; fig. 100 fig. a, d-h; fig. 107 fig. s; fig. 115 fig. p; fig. 117 fig. m; fig. 118 fig. g; fig. 127 fig. h-n, q; fig. 132 fig. d; fig. 136 fig. i; fig. 138 fig. m; fig. 150 fig. o; fig. 152 fig. i; fig. 156 fig. b, f; fig. 160 fig. a, b, e	J44-77	30	3					1	34
		1				1	11	Al-Ameri et al. (2012)	24	fig. 13	J78	1							1
		4				4	12	Al-Amer et al. (2013)	3730, 3732	fig. 3; fig. 4	J79-81	2		1	1				4
		15		1		16	13	Hewaidy et al. (2014)	183, 184	pl. 6 fig. 6- 18; pl. 7 fig. 15	J82-95	13	1		2				16
		2				2	14	Gonçalves et al. (2014)	441	fig. 1 fig. e, f	J96,97	2							2
		3				3	15	Al-Ameri et al. (2015)	762, 766	fig. 3 fig. 8; fig. 7 fig. 8	J98,99	2			1				3
		4				4	16	Hartkopf-Fröder et al. (2015)	89	fig. 11 fig. a-d	J100-103	4							4
		1				1	17	Ied et al. (2016)	78	fig. 5 fig. 21	J104	1							1
		1		1		2	18	Correia et al. (2017)	53	fig. 6 fig. 11, 12	J105,106	1			1				2
		1				1	19	Zarei (2017)	32	pl. I fig. 8	J107	1							1
		1				1	20	Kowal-Kasprzyk et al. (2020)	10		J108	1							1
		12				12	21	Godos et al. (2021)- submitted, under revision		fig. 5A-L	J109-120	12							12
	0	**114**	**0**	**9**	**1**	**124**	**21**	**TOTAL / JURASSIC**				**100**	**9**	**2**	**7**	**3**	**0**	**3**	**124**
TRIASSIC		2				2	1	Rameil et al. (2000)	129	pl. 29 fig. 1, 5	T1,2	1			1				2
		1				1	2	Roghi (2004)	18	pl. XI fig. 11	T3	1							1
		1			1	2	3	Whiteside et al. (2008)	114	fig. 6 fig. qq	T4,5	1						1	2
		1				1	4	Schneebeli-Hermann et al. (2012)	19	pl. II fig. 17	T6	1							1
		1				1	5	Stockar et al. (2013)	245	fig. 4 fig. i	T7	1							1
		2				2	6	Haig et al. (2015)	518	fig. 9 fig. a, b	T8,9	1			1				2
		2				2	7	Cirilli et al. (2015)	73	pl. II fig. 17, 20	T10,11	2							2
		2				2	8	Panou (2015)	81	pl. 1 fig. g	T12,13	2							2
		2				2	9	Baranyi et al. (2019)	3	fig. 1 fig. 6, 7	T14,15	1	1						2
		1				1	10	Garcia-Avila et al. (2020)		fig. 4 fig. 40	T16		1						1
		1				1	11	Azo et al. (2020)	131	pl. 1 fig. i	T17		1						1
	0	**16**	**0**	**0**	**1**	**17**	**11**	**TOTAL / TRIASSIC**				**11**	**3**	**0**	**2**	**0**	**0**	**1**	**17**

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PERMIAN																			
	0	**0**	**0**	**0**	**0**	**0**	**0**	**TOTAL / PERMIAN**				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
CARBONIFEROUS		1				1	1	di Pasquo (2009)	276	pl. V fig. 9	C1	1							1
		13				13	2	Gutiérrez et al. (2016)	698	fig. 3 fig. 1-13	C2-14	13							13
		1				1	3	Gutiérrez & Belarino (2018)	11	fig. V fig. 36	C15	1							1
	0	**15**	**0**	**0**	**0**	**15**	**3**	**TOTAL / CARBONIFEROUS**				**15**	**0**	**0**	**0**	**0**	**0**	**0**	**15**
DEVONIAN	28	4				32	1	Winchester-Seeto et al. (1994)			D1-32							32	32
	40		1			41	2	Bell et al. (1999)	30, 35, 36, 40	fig. 1 fig. 1-12; fig. 2 fig. 1-4, 7-11; fig. 3 fig. 1, 2, 4, 5-11; fig. 4 fig. 1, 2, 4-13	D33-73							41	41
	68	**4**	**1**	**0**	**0**	**73**	**2**	**TOTAL / DEVONIAN**				**0**	**0**	**0**	**0**	**0**	**0**	**73**	**73**
SILURIAN																			
	0	**0**	**0**	**0**	**0**	**0**	**0**	**TOTAL / SILURIAN**				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
ORDOVICIAN	1	1				2	1	Winchester-Seeto et al. (2006)	202	pl.I. fig. 1, 2	O1,2	1			1				2
	1	**1**	**0**	**0**	**0**	**2**	**1**	**TOTAL / ORDOVICIAN**				**1**	**0**	**0**	**1**	**0**	**0**	**0**	**2**
CAMBRIAN	3					3	1	Winchester-Seeto et al. (2006)	76	pl. II fig. 1, 2, 5	Cm1-3							3	3
	3	**0**	**0**	**0**	**0**	**3**	**1**	**TOTAL / CAMBRIAN**				**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**
	72	**514**	**1**	**22**	**5**	**614**	**155**	**TOTAL**				**444**	**31**	**7**	**24**	**7**	**1**	**100**	**614**

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