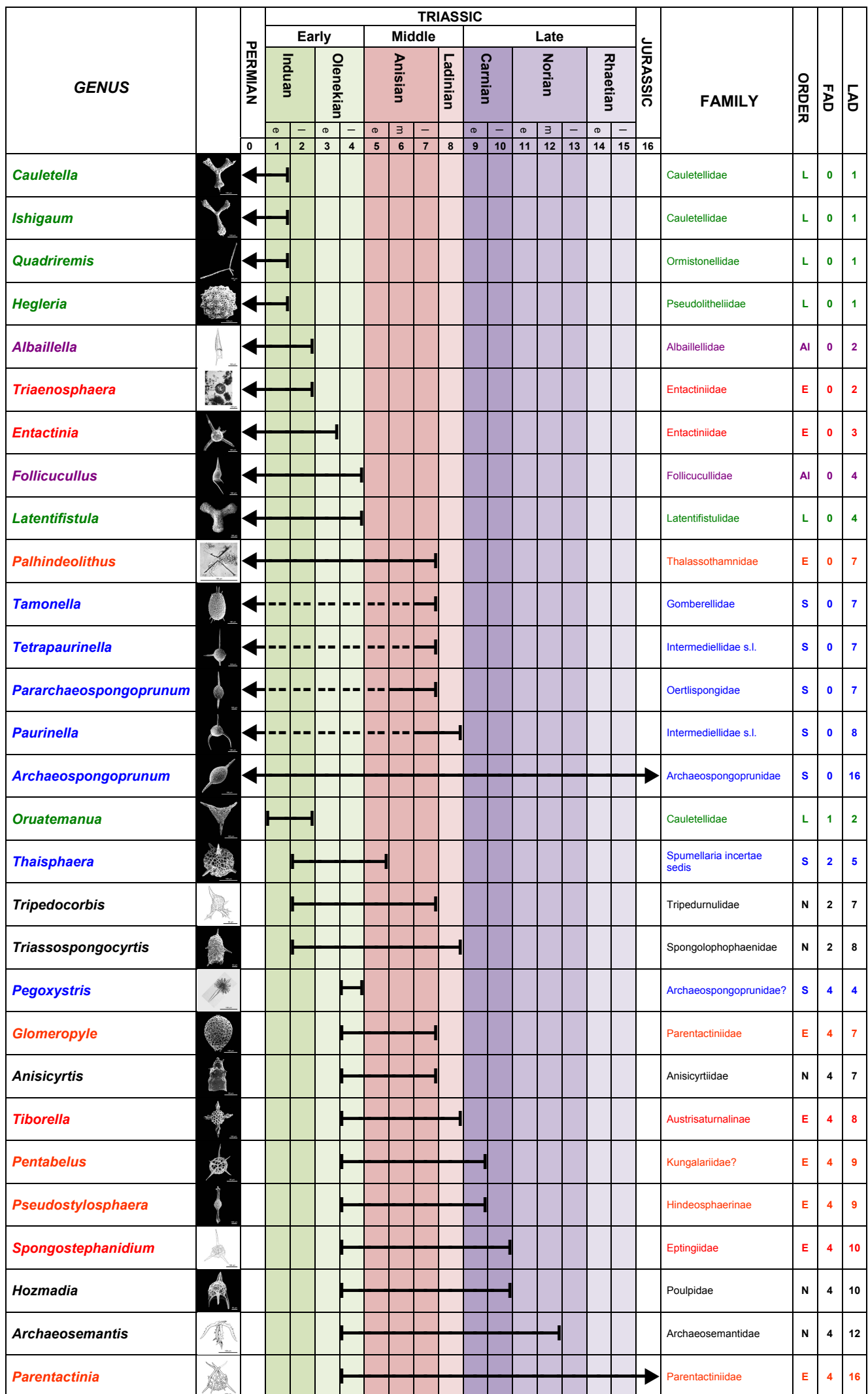


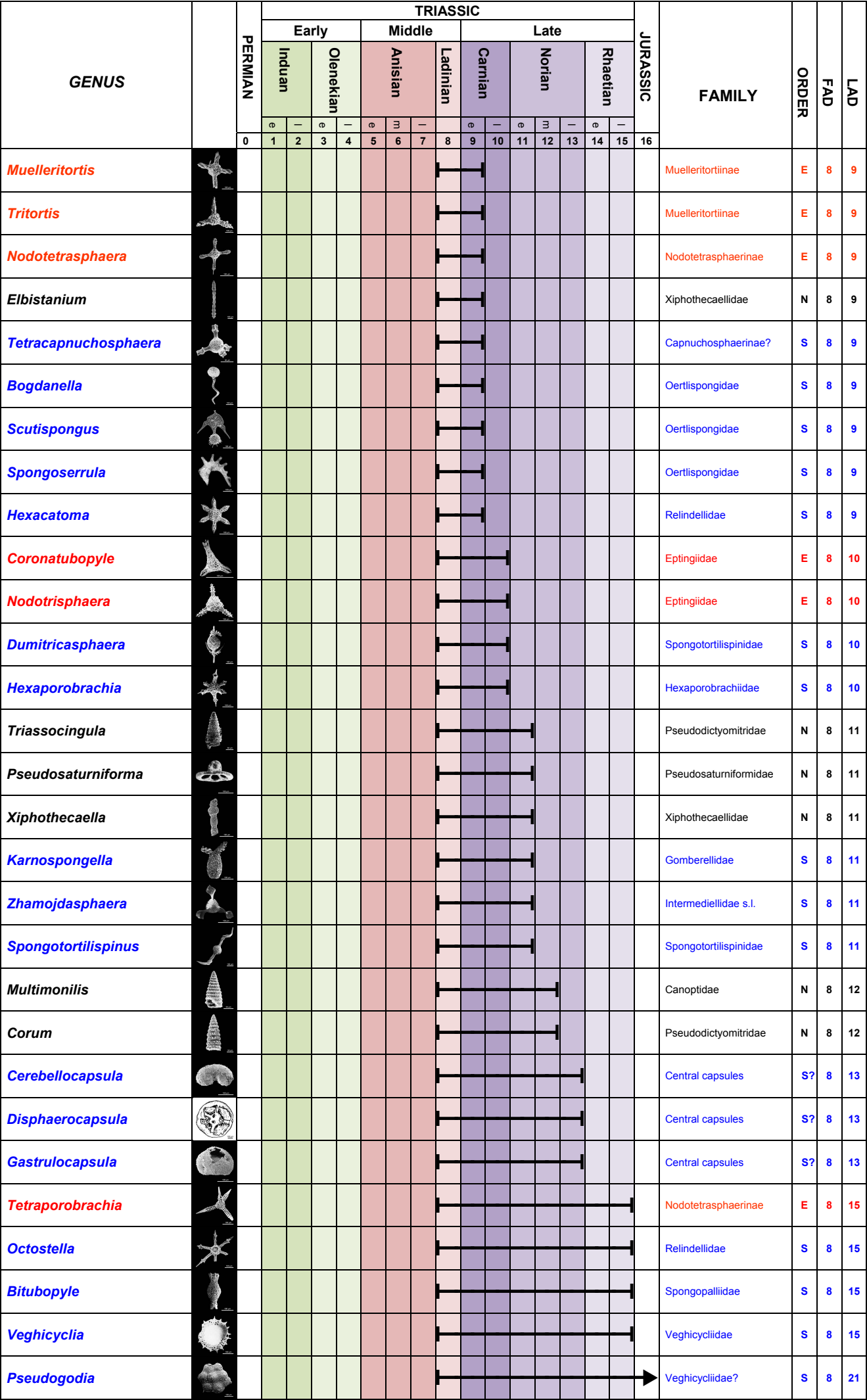


GENUS		PERMIAN	TRIASSIC														JURASSIC	FAMILY	ORDER	FAD	LAD	
			Early				Middle				Late											
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian			Rhaetian						
			e	l	e	l	e	m	l		e	l	e	m	l	e						l
			0	1	2	3	4	5	6	7	8	9	10	11	12	13						14
Verticiplogia																			Ximolzasinae	N	4	16
Celluronta																			Acropyramididae	N	5	6
Planispinocyrtis																			Planispinocyrtidae	N	5	9
Cryptostephanidium																			Eptingiidae	E	5	10
Triassocampe																			Ruesticyrtidae	N	5	11
Eptingium																			Eptingiidae	E	5	15
Pseudosepsagon																			Heptacladidae	E	6	6
Arcicubulus																			Quinquecapsulariidae?	E	6	6
Fueloepicyrtis																			Nabolellidae	N	6	6
Ximolzas																			Ximolzasinae	N	6	6
Pessagnollum																			Spumellaria incertae sedis	S	6	6
Hexatortilisphaera																			Entactinaria incertae sedis	E	6	7
Heptacladus																			Heptacladidae	E	6	7
Parasepsagon																			Hindeosphaerinae	E	6	7
Pentactinocapsa																			Pentactinocarpidae	E	6	7
Tandarnia																			Archaeosemantidae	N	6	7
Monicasterix																			Monicastericidae	N	6	7
Triassobipedis																			Poulpidae	N	6	7
Paratriassocampe																			Ruesticyrtidae	N	6	7
Pseudotriassocampe																			Ruesticyrtidae	N	6	7
Spongolophophaena																			Spongolophophaenidae	N	6	7
Spongosilicarmiger																			Spongosilicarmigeridae	N	6	7
Baratuna																			Tripedunculidae	N	6	7
Tripedocassis																			Tripedunculidae	N	6	7
Muellericyrtium																			Ultraporidae	N	6	7
Molzaxis																			Ximolzasinae	N	6	7
Palaeosemantis																			Zaldacriinae	N	6	7
Zaldacia																			Zaldacriinae	N	6	7
Patrulius																			Patruliidae	S	6	7

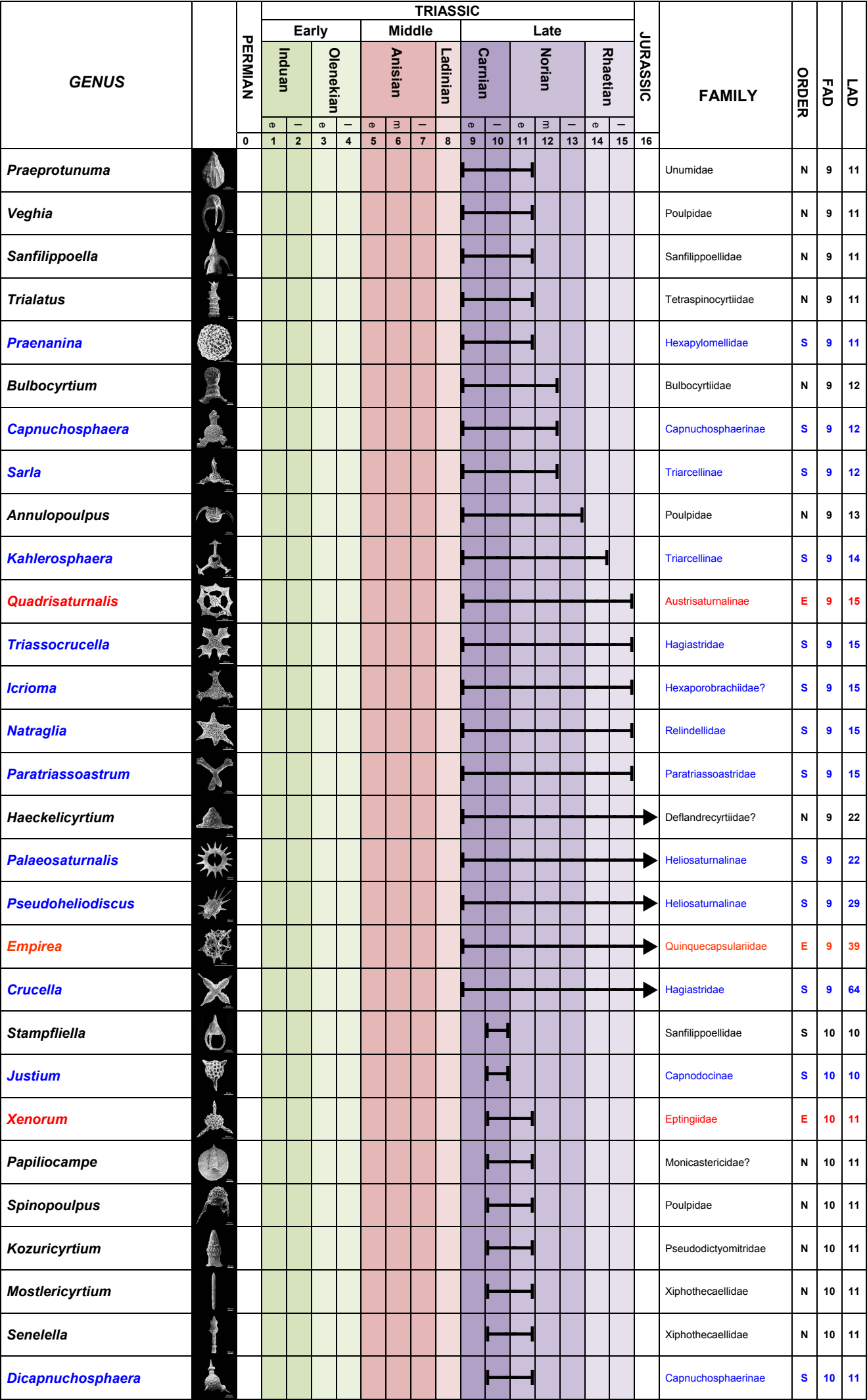
GENUS		PERMIAN	TRIASSIC													JURASSIC	FAMILY	ORDER	FAD	LAD		
			Early				Middle			Late												
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian								Rhaetian	
			e	l	e	l	e	m	l		e	l	e	m	l						e	l
			0	1	2	3	4	5	6	7	8	9	10	11	12						13	14
<i>Tetratholura</i>																			Patruliidae	S	6	7
<i>Nandartia</i>																			Archaeosemantidae	N	6	8
<i>Nofrema</i>																			Spongosilicarmigeridae	N	6	8
<i>Tripedurnula</i>																			Tripedurnulidae	N	6	8
<i>Spongoxystris</i>																			Spongortilispinidae	S	6	8
<i>Parentactinosphaera</i>																			Heptacladidae	E	6	9
<i>Beturiella</i>																			Multiarcusellinae	E	6	9
<i>Goestlingella</i>																			Cuniculiformidae?	N	6	9
<i>Spinotriassocampe</i>																			Planispinocyrtiidae	N	6	9
<i>Triassocyrtium</i>																			Planispinocyrtiidae	N	6	9
<i>Yeharaia</i>																			Ruesticyrtiidae	N	6	9
<i>Praegomberellus</i>																			Gomberellidae	S	6	9
<i>Astrocentrus</i>																			Intermediellidae s.l.	S	6	9
<i>Katorella</i>																			Intermediellidae s.l.	S	6	9
<i>Paroertlisponus</i>																			Oertlispongidae	S	6	9
<i>Sepsagon</i>																			Hindeosphaerinae	E	6	10
<i>Triassothamnus</i>																			Thalassothamnidae	E	6	10
<i>Eonapora</i>																			Poulpidae	N	6	10
<i>Tetraspinocyrtis</i>																			Tetraspinocyrtiidae	N	6	10
<i>Monospongella</i>																			Gomberellidae	S	6	10
<i>Pentaspogodiscus</i>																			Relindellidae	S	6	10
<i>Relindella</i>																			Relindellidae	S	6	10
<i>Spongopallium</i>																			Spongopalliidae	S	6	10
<i>Neopylentonema</i>																			Poulpidae	N	6	11
<i>Pararuesticyrtium</i>																			Ruesticyrtiidae	N	6	11
<i>Hinedorcus</i>																			Ultranaporidae	N	6	11
<i>Silicarmiger</i>																			Ultranaporidae	N	6	11
<i>Triassobullasphaera</i>																			Xiphostylidae	S	6	11
<i>Hindeosphaera</i>																			Hindeosphaerinae	E	6	12

GENUS		PERMIAN	TRIASSIC															JURASSIC	FAMILY	ORDER	FAD	LAD
			Early				Middle				Late											
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian			Rhaetian						
			e	l	e	l	e	m	l	8	e	l	e	m	l	e	l					
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
<i>Annulotriassocampe</i>																			Ruesticyrtidae	N	6	12
<i>Pentactinorbis</i>																			Pentactinocarpidae	E	6	13
<i>Nabolella</i>																			Nabolellidae	N	6	15
<i>Plafkerium</i>																			Intermediellidae s.l.	S	6	15
<i>Tetrarchiplagia</i>																			Ximolzasinae	N	6	16
<i>Archaeocenosphaera</i>																			Xiphostylidae	S	6	16
<i>Ansubuga</i>																			Entactinaria incertae sedis	E	7	7
<i>Triassistephanidium</i>																			Eptingiidae	E	7	7
<i>Stauropylissa</i>																			Heptacladidae	E	7	7
<i>Lobactinocapsa</i>																			Pentactinocarpidae	E	7	7
<i>Recoaroella</i>																			Foremanellinidae	N	7	7
<i>Conospongocytis</i>																			Spongolophophaenidae	N	7	7
<i>Kulacella</i>																			Intermediellidae s.l.	S	7	7
<i>Paraheptacladus</i>																			Intermediellidae s.l.	S	7	7
<i>Rikivatella</i>																			Intermediellidae s.l.	S	7	7
<i>Flexispongos</i>																			Oertlispongidae	S	7	7
<i>Turospogus</i>																			Oertlispongidae	S	7	7
<i>Hexaspongos</i>																			Spumellaria incertae sedis	S	7	7
<i>Annulobulbocyrtium</i>																			Bulbocyrtidae	N	7	8
<i>Foremanellina</i>																			Foremanellinidae	N	7	8
<i>Tubotriassocytis</i>																			Monicastericidae	N	7	8
<i>Ladinocampe</i>																			Planispinocyrtidae	N	7	8
<i>Gomberellus</i>																			Gomberellidae	S	7	8
<i>Baumgartneria</i>																			Oertlispongidae	S	7	8
<i>Falcispongos</i>																			Oertlispongidae	S	7	8
<i>Welirella</i>																			Centroclubidae	E	7	9
<i>Baloghisphaera</i>																			Multiarcusellinae	E	7	9
<i>Multiarcusella</i>																			Multiarcusellinae	E	7	9
<i>Striatotriassocampe</i>																			Ruesticyrtidae	N	7	9

GENUS		PERMIAN	TRIASSIC													JURASSIC	FAMILY	ORDER	FAD	LAD		
			Early				Middle			Late												
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian								Rhaetian	
			e	l	e	l	e	m	l		e	l	e	m	l						e	l
			0	1	2	3	4	5	6	7	8	9	10	11	12						13	14
<i>Angulopaurinella</i>																			Intermediellidae s.l.	S	7	9
<i>Oertlispongos</i>																			Oertlispongiae	S	7	9
<i>Recoarella</i>																			Relindellidae	S	7	9
<i>Dreyericyrtium</i>																			Deflandrecyrtidae	N	7	10
<i>Spinomersinella</i>																			Spinomersinellidae	S	7	10
<i>Poulpus</i>																			Poulpidae	N	7	11
<i>Vinassaspongos</i>																			Spongopalliidae	S	7	11
<i>Tubospongopallium</i>																			Spongopalliidae	S	7	11
<i>Pylostephanidium</i>																			Eptingiidae	E	7	13
<i>Triassospongosphaera</i>																			Intermediellidae s.l.	S	7	13
<i>Pentactinocarpus</i>																			Pentactinocarpidae	E	7	15
<i>Deflandrecyrtium</i>																			Deflandrecyrtidae	N	7	15
<i>Cornutella</i>																			Acropyramididae	N	7	16
<i>Amuria</i>																			Xiphostylidae	S	7	16
<i>Ornatisaturnalis</i>																			Austrisaturnalinae	E	8	8
<i>Setaella</i>																			Pentactinocarpidae	E	8	8
<i>Draculacampe</i>																			Monicastericidae	N	8	8
<i>Bosniacyrtis</i>																			Nassellaria incertae sedis	N	8	8
<i>Annulohaeckelella</i>																			Poulpidae	N	8	8
<i>Spinolobocyrtium</i>																			Spinolobocyrtidae	N	8	8
<i>Discofulmen</i>																			Gomberellidae?	S	8	8
<i>Acanthotetrapaurinella</i>																			Intermediellidae s.l.	S	8	8
<i>Pterospongos</i>																			Oertlispongiae	S	8	8
<i>Steigerispongos</i>																			Oertlispongiae	S	8	8
<i>Ligulatubus</i>																			Spongopalliidae	S	8	8
<i>Spinohollisella</i>																			Veghicycliidae	S	8	8
<i>Hungarosaturnalis</i>																			Austrisaturnalinae	E	8	9
<i>Praeheliostaurus</i>																			Austrisaturnalinae	E	8	9
<i>Radium</i>																			Entactinaria incertae sedis	E	8	9



GENUS		PERMIAN	TRIASSIC															JURASSIC	FAMILY	ORDER	FAD	LAD
			Early				Middle				Late											
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian			Rhaetian						
			e	l	e	l	e	m	l		e	l	e	m	l	e	l					
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
Canoptum										→							Canoptidae	N	8	29		
Cenosphaerocapsula										→							Central capsules	S?	8	38		
Divatella										I								Eptingiidae	E	9	9	
Ploechingerella										I								Spongosaturnaloididae	E	9	9	
Spongosaturnaloides										I								Spongosaturnaloididae	E	9	9	
Wuranella										I								Ruesticyrtidae	N	9	9	
Tiroadella										I								Ultranaporidae	N	9	9	
Heliosaturnalis										I								Heliosaturnalinae	S	9	9	
Nazarovella										I								Hexaporobrachiidae	S	9	9	
Annulosaturnalis										I								Italosaturnalinae	S	9	9	
Sertasaturnalis										I								Italosaturnalinae?	S	9	9	
Tetraspongodiscus										I								Intermediellidae s.l.	S	9	9	
Renila										I								Spumellaria incertae sedis	S	9	9	
Austrisaturnalis										I	I							Austrisaturnalinae	E	9	10	
Monostylosphaera										I	I							Kungaliariidae?	E	9	10	
Pseudovum										I	I							Anisicyrtidae	N	9	10	
Nevanellus										I	I							Ruesticyrtidae	N	9	10	
Ruesticyrtium										I	I							Ruesticyrtidae	N	9	10	
Angulocircus										I	I							Heliosaturnalinae	S	9	10	
Berlahmium										I	I							Spongotortilispinidae	S	9	10	
Huglusphaera										I	I							Heliosaturnalinae	S	9	10	
Hexapylomella										I	I							Hexapylomellidae	S	9	10	
Trimiduca										I	I							Relindellidae	S	9	10	
Weverella										I	I							Spongopalliidae	S	9	10	
Triassoastrum										I	I							Paratriassoastridae	S	9	10	
Carinacyclia										I	I							Veghicycliidae	S	9	10	
Praeorbiculiformella										I	I							Veghicycliidae	S	9	10	
Carinaheliosoma										I	I	I						Quinquecapsulariidae?	E	9	11	
Canesium										I	I	I						Favosyringiinae	N	9	11	



GENUS		PERMIAN	TRIASSIC													JURASSIC	FAMILY	ORDER	FAD	LAD		
			Early				Middle				Late											
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian		Rhaetian							
			e	l	e	l	e	m	l	8	e	l	e	m	l						e	l
			0	1	2	3	4	5	6	7	8	9	10	11	12						13	14
<i>Monocapnuchosphaera</i>																		Capnuchosphaerinae	S	10	11	
<i>Nodocapnuchosphaera</i>																		Capnuchosphaerinae	S	10	11	
<i>Xipha</i>																		Nakasekoellidae	N	10	12	
<i>Blebschmidtia</i>																		Heliosaturnalinae	S	10	12	
<i>Capnodoce</i>																		Capnodocinae	S	10	12	
<i>Archaeoacanthocircus</i>																		Heliosaturnalinae	S	10	12	
<i>Hetalum</i>																		Deflandrecyrtidae?	N	10	13	
<i>Japonocampe</i>																		Pseudodictyomitridae	N	10	13	
<i>Betraccium</i>																		Pantaneliinae	S	10	15	
<i>Spinosicapsa</i>																		Favosyringiinae	N	10	49	
<i>Pantanelium</i>																		Pantaneliinae	S	10	50	
<i>Capthorocyrtium</i>																		Planispinocyrtidae	N	11	11	
<i>Triarcella</i>																		Triarcellinae	S	11	11	
<i>Ellisus</i>																		Eptingiidae	E	11	12	
<i>Tauridastrum</i>																		Eptingiidae	E	11	12	
<i>Catoma</i>																		Nodotetrasphaerinae	E	11	12	
<i>Pachus</i>																		Pseudodictyomitridae	N	11	12	
<i>Loffa</i>																		Capnodocinae	S	11	12	
<i>Renzium</i>																		Capnodocinae	S	11	12	
<i>Triadosphaera</i>																		Central capsules	S?	11	13	
<i>Cantalum</i>																		Pantaneliinae	S	11	15	
<i>Braginella</i>																		Pentactinocarpidae	E	12	13	
<i>Lysemelas</i>																		Nassellaria incertae sedis	N	12	13	
<i>Mesosaturnalis</i>																		Saturnalinae	S	12	60	
<i>Octosaturnalis</i>																		Heliosaturnalinae	S	13	13	
<i>Ayrtonius</i>																		Livarellidae?	N	13	14	
<i>Ferresium</i>																		Eptingiidae	E	13	15	
<i>Tricornicyrtium</i>																		Deflandrecyrtidae?	N	13	15	
<i>Livarella</i>																		Livarellidae	N	13	15	

GENUS		PERMIAN	TRIASSIC															JURASSIC	FAMILY	ORDER	FAD	LAD
			Early				Middle				Late											
			Induan		Olenekian		Anisian			Ladinian	Carnian		Norian			Rhaetian						
			e	l	e	l	e	m	l		e	l	e	m	l	e	l					
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
<i>Pseudohagiastrum</i>																			Paratriassostridae	S	13	15
<i>Praemesosaturnalis</i>																			Saturnalinae	S	13	15
<i>Fontinella</i>																			Triarcellinae	S	13	17
<i>Laxtorum</i>																			Canoptidae	N	13	21
<i>Bipedis</i>																			Ultranaporidae	N	13	22
<i>Citriduma</i>																			Livarellidae	N	13	23
<i>Hagiastrum</i>																			Hagiastridae	S	13	38
<i>Gorgansium</i>																			Pantaneliinae	S	13	44
<i>Kungalaria</i>																			Kungalariaiidae	E	14	15
<i>Globolaxtorum</i>																			Canoptidae	N	14	15
<i>Neocanoptum</i>																			Canoptidae	N	14	15
<i>Proparvicingula</i>																			Parvicingulidae	N	14	15
<i>Praecitriduma</i>																			Livarellidae	N	14	15
<i>Parvibrachiale</i>																			Nassellaria incertae sedis	N	14	15
<i>Serilla</i>																			Angulobracchiidae	S	14	15
<i>Loupanus</i>																			Angulobracchiidae	S	14	39
<i>Orbiculiformella</i>																			Veghicycliidae?	S	14	54
<i>Pseudoeucyrtis</i>																			unnamed family pro Eucyrtidiidae	N	14	57
<i>Paronaella</i>																			Angulobracchiidae	S	14	60
<i>Tipperella</i>																			Spumellaria incertae sedis	S	15	16
<i>Pseudacanthocircus</i>																			Parasaturnalinae	S	15	21