

A

Long-Branch attraction tests			Ctenophora-sister vs Porifera-sister (Total n. of sp.)	Relationships of Xenacoelomorpha - taxon exclusion	
Outgroup Sapling	LBA effect from	Method		Xenoturbella (Total n. of sp.)	Acoeloorpha (Total n. of sp.)
Opisthokonta	distant outgroup	Ab initio	Opi-homo/ortho-disAb47	OpiXen-homo/ortho-disAb41	OpiAco-homo/ortho-disAb44
		Pruning	-	OpiXen-homo/ortho-disP41	OpiAco-homo/ortho-disP44
	in-groups (near group)	Ab initio	Opi-homo/ortho-neAb44	OpiXen-homo/ortho-neAb38	OpiAco-homo/ortho-neAb41
		Pruning	Opi-homo/ortho-neP44	OpiXen-homo/ortho-neP38	OpiAco-homo/ortho-neP41
Holozoa	distant outgroup	Ab initio	Hol-homo/ortho-disAb41	HolXen-homo/ortho-disAb35	HolAco-homo/ortho-desAb38
		Pruning	Hol-homo/ortho-disP41	HolXen-homo/ortho-disP35	HolAco-homo/ortho-disP38
	in-groups (near group)	Ab initio	Hol-homo/ortho-neAb38	HolXen-homo/ortho-neAb32	HolAco-homo/ortho-neAb35
		Pruning	Hol-homo/ortho-neP38	HolXen-homo/ortho-neP32	HolAco-homo/ortho-neP35
Choanozoa	distant outgroup	Ab initio	Cho-homo/ortho-disAb39	ChoXen-homo/ortho-disAb33	ChoAco-homo/ortho-disAb36
		Pruning	Cho-homo/ortho-disP39	ChoXen-homo/ortho-disP33	ChoAco-homo/ortho-disP36
	in-groups (near group)	Ab initio	Cho-homo/ortho-neAb36	ChoXen-homo/ortho-neAb30	ChoAco-homo/ortho-neAb33
		Pruning	Cho-homo/ortho-neP36	ChoXen-homo/ortho-neP30	ChoAco-homo/ortho-neP33

B

Strategy	N.	Animal sp. in different groups			Choano flagellat a	Capsas pora/ Sphearo forma	Fungi	Total			Datasets names		
		47	41	44				47	41	44			
A - Full pipeline	1	37	31	34	2	2	6	47	41	44	A1ntax47	A1ntax41	A1ntax44
	2	37	31	34	2	2	0	41	35	38	A2ntax41	A2ntax35	A2ntax38
	3	37	31	34	2	0	0	39	33	36	A3ntax39	A3ntax33	A3ntax36
B - NEXUS pruned	(pruning from .	37	31	34	2	2	6	-	41	44	-	B4ntax41	B4ntax44
	5	37	31	34	2	2	0	41	35	38	B5ntax41	35B5ntax	B5ntax38
	6	37	31	34	2	0	0	39	33	36	B6ntax39	B6ntax33	B6ntax36
C - No long branches in the animals A strategy	7	34	28	31	2	2	6	44	38	41	C7ntax44	C7nta38x	C7ntax41
	8	34	28	31	2	2	0	38	32	35	C8ntax38	C8ntax32	C8ntax35
	9	34	28	31	2	0	0	36	30	33	C9ntax36	C9ntax30	C9ntax33
D - No long branches in the animals B strategy	10	34	28	31	2	2	6	44	38	41	D10ntax44	D10ntax38	D10ntax41
	11	34	28	31	2	2	0	38	32	35	D11ntax38	D11ntax32	D11ntax35
	12	34	28	31	2	0	0	36	30	33	D12ntax36	D12ntax30	D12ntax33
Trees N.:								35					