

Table 1 Constraints used and results of the molecular clock analyses

	Monocot/core eudicot	STDEV/ref.	Angio-/gymnosperm	STDEV/ref.	Moss/seed plant	STDEV/ref.	Green algae/land plants	STDEV/ref.	Red/green algae	STDEV/ref.
Minimum constraint	90.00	Crane et al. 1995	290.00	Yoon et al. 2004	396.00	Taylor et al. 2005	786.00	Hedges et al. 2004	1174.00	Butterfield 2001
Maximum constraint	240.00	Wolfe et al. 1989	360.00	Troitsky et al. 1991	899.00	Hedges et al. 2004	1150.00	Hedges et al. 2004	1579.00	Hedges et al. 2004
PL average	304.72	111.25	372.33	76.56	476.65	93.76	725.63	134.97	1212.89	215.18
PL concatenated	256.46		365.46		454.90		756.32		1167.95	
LF average	300.99	93.37	385.36	71.51	495.82	83.71	725.43	138.03	1141.63	166.55
LF concatenated	264.60		393.77		472.33		778.28		1111.16	

The upper two rows list the minimum and maximum constraints that have been used for the molecular clock analyses together with the associated literature. The corresponding nodes are arranged as columns and describe the divergence of the respective last common ancestor. The lower four rows contain the results of the molecular clock dating using the PL and LF method, respectively, both for individual (averaged) and concatenated alignments together with the standard deviation of the average values. All numbers are in million years