Table S2. Complete list of the 75 statistically significant dependencies

 between pairs of characters determined with the correlated changes test implemented in MacClade (Maddison & Maddison 1989)

character numbers correspond to the character numbers in Fig. 2 and Fig. S1

character			dependent character		
number:	description:	MacClade p-Value:	number:	description:	mutual dependency:
	-				
2	if there is symmetric				
	rumiing in the one-cell stage:	0.0067	11	there is no cytoplasmic posterior flow	v
		0.018	17	the PN meet in the middle	y V
		0.0227	31	there is no ruffling at the two-cell stage	ý
3	if there is no anterior PB				
J	in there is no anterior i b.	0.045	2	there is no asymmetric ruffling	n
		0.002	5	there is a PB in the posterior	у
		0.017	6	there is only one PN	У
		0.012	7	there are detached centrosomes	n
		0.033	11	there is no cytoplasmic posterior flow	У
		0.017	20	there is no spindle rotation	у
		0.0031	33	there are PC-like constrictions at the two-cell stage	v
5	if there is a posterior PP:			 	,
5	In there is a posterior PB.	0.002	3	there is no anterior PB	v
		0.045	11	there is no cytoplasmic posterior flow	v
		0.021	13	there is no anterior PN migration	ý
		0.0127	27	the nuclei touch the cytokinesis plate	у
6	if there is only one PN:				
	-	0.043	3	there is no anteriror PB	У
		0.0013	7	there are detached centrosomes	n
8	if there is no PC:				
		0.01	3	there is no anterior PB	n
		0.0093	11	there is no cytoplasmic posterrior flow	У
		0.001	13	there is no anterior PN migration	У
		0.024	20		n
11	if there is no cytoplasmic				
	posterior flow:	0.0047	2	there is no commetric ruffling in the one coll stage	
		0.0047	2	there is no anterior PB	у
		0.0027	5	there is a PB in the posterior	v
		0.041	8	there is no PC	ý
		0.042	13	there is no anterior PN migration	У
		0.0067	17	the PN meet in the middle	У
12	if there is no cortical				
	anterior flow:	0.010	0		_
		0.018	2	there is a PB in the posterior	n
		0.023	8	there is no PC	n
		0.001	11	there is no cytoplasmic posterior flow	n
		0.025	17	the PN meet in the middle	n
13	if the anterior pronucleus				
	doesn't migrate:				
		0.025	3	there is no anterior PB	У
		0.025	5	there is a PB in the posterior	У
		0.0127	8 11	there is no PC	У
	•	0.010	(1		у
14	If there is no pronuclear				
	migration of the posterior pronucleus	0.041	1	there is no membrane ruffling in the one-cell stage	n
		0.015	22	there is no anterior rocking	y
16	if there are clear areas			· · · · · · · · · · · · · · · · · · ·	. ,
10	at the two-cell stage				
		0.006	27	the nuclei touch the cytokinesis plate	у
		0.002	31	there is no ruffling at the two-cell stage	y

character			dependent character			
number:	description:	MacClade p-Value:	number:	description:	mutual dependency:	
17	if the pronuclei meet					
	in the middle:					
		0.012	2	there is symmetric ruffling in the one-cell stage	У	
		0.021	5	there is a PB in the posterior	n	
		0.006	11	there is no cytoplasmic flow to the posterior	У	
		0.02	14	there is no posterior PN migration	n	
		0.028	31	there is no ruffling at the two-cell stage	y N	
18	if NEBD is not in the center:	0.034	39	there is AB spindle rocking	у	
22	if the anterior spindle					
	pole rocks:					
		0.015	14	the posterior pronucleus migrates	У	
23	if the posterior spindle					
	pole rocks:					
	•	0.0073	22	the anterior spindle pole rocks	n	
26	if the nuclei don't move:					
		0.045	2	there is no asymmetric ruffling	n	
		0.048	5	there is a PB in the posterior	n	
		0.045	17	the PN meet in the middle	n	
		0.041	31	there is no ruffling at the two-cell stage	n	
27	if the nuclei touch the cytokinetic plate:					
		0.012	5	there is a PB in the posterior	У	
		0.0033	16	there are areas clear of yolk granules in the two-cell stage	У	
		0.012	31	there is no ruffling at the two-cell stage	У	
30	if there are vacuoles:	0.027	34	the cell cycles are not asynchronous	n	
		0.021				
31	if there is no ruffling					
	at the two-cell stage.	0.0047	2	there is no asymmetric ruffling at the one-cell stage	v	
		0.037	11	there is no cytoplasmic posterior flow	, n	
		0.0013	16	there are areas clear of yolk granules in the two-cell stage	v	
		0.006	17	the PN meet in the middle	ý	
		0.014	27	the nuclei touch the cytokinetic plate	y	
32	if there is asymmetric					
	ruffling at the two-cell stage:					
		0.049	19	NEBD happens before the spindle set up	n	
		0.016	21	there is a spindle shift	n	
33	if there are PC-like					
	constrictions:					
		0.004	3	there is no anterior PB	У	
		0.049	8	there is no PC	n	
		0.041	13	there is no anterior PN migration	n	
		0.002	38	the P2 cell does not immediately touch the AB lineage	У	
35	if P1 divides before AB:					
		0.0067	6	there is only one PN	n	
		0.015	7	there are detached centrosomes	n	
38	if the P2 cell does not					
	immediately touch the AB lineage:	0.010	_		1	
		0.018	6	there is only one PN	n	
		0.022	/	there are detached centrosomes	n	
		0.017	20	there are PC-like constrictions at the two-cell stage	n v	
	·	0.000		הייני מיפיד טיווגב נטווטנוטווא מג נווב נשטיניבוו אנמשפ	У	
39	If the AB spindle rocks:	0.020	40	NERD is not in the conter		
1		0.000	١ö	INEED IS HOLIH THE CENTER	У	

Abbreviations used: NEBD Nuclear Envelope Breakdown

PB Polar body PC Pseudo-cleavage PN Pronucleus, Pronuclei