

# Two new species of freshwater planarian (Platyhelminthes, Tricladida, DugesIIDae, *Dugesia*) from Southern China exhibit unusual karyotypes, with a discussion on reproduction in aneuploid species

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**Table S2. Genetic distances for ITS-1. Highest and lowest distance values between the two new Chinese species and congeners indicated in blue and red, respectively. Green: distance value between the two new species.**

	<i>S. mediterranea</i>	<i>D. adunca</i>	<i>D. aethiopica</i>	<i>D. afromontana</i>	<i>D. arabica</i>	<i>D. arcadia</i>	<i>D. ariadnae</i>	<i>D. batuensis</i>	<i>D. benazzii</i>	<i>D. bengalensis</i>	<i>D. bifida</i>	<i>D. circumcisa</i>	<i>D. cretica</i>	<i>D. constrictiva</i>	<i>D. deharvengi</i>	<i>D. elegans</i>	<i>D. etrusca</i>	<i>D. hepta</i>	<i>D. gibberosa</i>	<i>D. gonocephala</i>	<i>D. granosa</i>	<i>D. japonica</i>	<i>D. liguriensis</i>	<i>D. majuscula</i>	<i>D. naiadis</i>	<i>D. notogaea</i>	<i>D. pustulata</i>	<i>D. ryukyensis</i>	<i>D. sagitta</i>	<i>D. semiglobosa</i>	<i>D. sigmoides</i>	<i>D. sicula</i>	<i>D. subtentaculata</i>	<i>D. tumida</i>	<i>D. umbonata</i>	<i>D. verrucula</i>	<i>D. musculosa</i>	<i>D. pendula</i>						
<i>S. mediterranea</i>																																												
<i>D. adunca</i>	51.28%																																											
<i>D. aethiopica</i>	45.27%	19.43%																																										
<i>D. afromontana</i>	47.77%	19.85%	2.92%																																									
<i>D. arabica</i>	45.27%	19.43%	0.00%	2.92%																																								
<i>D. arcadia</i>	49.05%	15.35%	15.27%	16.39%	15.27%																																							
<i>D. ariadnae</i>	48.58%	15.59%	16.51%	17.15%	16.51%	2.06%																																						
<i>D. batuensis</i>	51.41%	7.72%	19.40%	19.29%	19.40%	14.58%	13.83%																																					
<i>D. benazzii</i>	48.50%	12.46%	16.89%	17.52%	16.89%	8.21%	7.97%	12.68%																																				
<i>D. bengalensis</i>	50.51%	5.95%	19.23%	19.39%	19.23%	15.15%	15.63%	9.61%	14.49%																																			
<i>D. bifida</i>	46.08%	18.24%	11.70%	13.50%	11.70%	17.41%	18.18%	19.54%	15.50%	18.59%																																		
<i>D. circumcisa</i>	50.33%	10.96%	16.06%	18.01%	16.06%	11.66%	11.41%	11.44%	10.09%	12.72%	15.17%																																	
<i>D. cretica</i>	49.32%	15.10%	15.79%	15.15%	15.79%	5.48%	5.26%	13.61%	8.19%	15.16%	17.18%	11.19%																																
<i>D. constrictiva</i>	49.71%	12.64%	14.78%	15.40%	14.78%	12.64%	11.91%	11.21%	11.74%	13.94%	15.13%	7.06%	11.44%																															
<i>D. deharvengi</i>	54.76%	12.72%	18.63%	19.03%	18.63%	15.62%	16.38%	11.52%	15.50%	14.02%	17.97%	11.69%	15.89%	12.37%																														
<i>D. elegans</i>	49.88%	15.61%	16.52%	17.14%	16.52%	2.48%	1.64%	14.33%	7.52%	15.39%	17.94%	11.90%	5.70%	12.39%	16.14%																													
<i>D. etrusca</i>	48.95%	16.79%	18.38%	19.61%	18.38%	8.63%	9.57%	15.97%	8.25%	15.75%	18.80%	12.00%	9.34%	12.75%	16.75%	9.33%																												
<i>D. hepta</i>	47.33%	12.65%	16.54%	17.17%	16.54%	8.41%	7.94%	12.38%	0.41%	14.68%	15.67%	10.29%	8.16%	11.93%	15.69%	7.48%	8.22%																											
<i>D. gibberosa</i>	46.25%	18.20%	13.10%	13.68%	13.10%	16.11%	17.39%	19.48%	17.01%	17.74%	8.93%	17.43%	17.67%	16.09%	18.99%	17.67%	19.82%	16.65%																										
<i>D. gonocephala</i>	48.42%	13.72%	16.06%	16.70%	16.06%	7.04%	7.04%	12.92%	4.44%	14.22%	13.43%	9.38%	6.37%	10.54%	14.68%	7.04%	5.73%	4.42%	16.69%																									
<i>D. granosa</i>	48.50%	17.67%	14.09%	15.45%	14.09%	16.57%	17.59%	20.00%	15.70%	18.80%	8.69%	14.88%	17.37%	16.85%	18.69%	17.86%	18.23%	15.63%	5.93%	15.38%																								
<i>D. japonica</i>	49.00%	12.42%	14.81%	15.43%	14.81%	10.72%	10.95%	10.76%	9.86%	12.49%	14.70%	8.44%	10.26%	6.60%	10.97%	10.94%	10.81%	10.06%	16.14%	9.39%	15.90%																							
<i>D. liguriensis</i>	49.99%	16.69%	17.56%	18.76%	17.56%	9.06%	10.48%	15.63%	8.68%	16.20%	18.21%	11.69%	9.54%	13.17%	16.93%	10.23%	2.48%	8.87%	20.30%	5.72%	18.96%	11.95%																						
<i>D. majuscula</i>	46.79%	11.42%	13.78%	14.64%	13.78%	11.41%	10.69%	10.96%	11.02%	12.21%	14.13%	5.07%	10.95%	3.96%	10.24%	11.65%	11.75%	11.21%	15.56%	10.07%	15.33%	5.94%	11.93%																					
<i>D. naiadis</i>	46.46%	22.10%	4.39%	4.41%	4.39%	16.76%	17.77%	20.99%	19.21%	21.92%	14.13%	19.14%	16.80%	16.27%	21.00%	17.78%	20.22%	18.84%	14.55%	18.35%	16.58%	16.81%	18.85%	16.25%																				
<i>D. notogaea</i>	51.89%	6.80%	20.16%	20.59%	20.16%	16.06%	16.55%	10.03%	15.65%	1.03%	19.26%	13.62%	16.34%	14.85%	14.68%	16.06%	16.93%	15.84%	18.67%	15.12%	20.01%	13.63%	17.37%	13.09%	22.60%																			
<i>D. pustulata</i>	49.97%	19.28%	19.24%	19.66%	19.24%	20.63%	20.36%	19.00%	20.04%	21.26%	19.95%	18.01%	17.99%	19.61%	20.94%	21.19%	20.80%	19.91%	18.53%	20.24%	19.34%	20.18%	19.89%	17.96%	20.58%	22.22%																		
<i>D. ryukyensis</i>	51.61%	8.41%	21.08%	20.99%	21.08%	14.61%	14.37%	2.29%	12.71%	9.39%	20.97%	12.19%	14.14%	12.71%	13.02%	14.36%	15.98%	12.41%	20.35%	13.45%	20.88%	11.27%	16.69%	12.45%	22.71%	9.80%	19.88%																	
<i>D. sagitta</i>	50.40%	14.86%	15.52%	16.65%	15.52%	0.82%	2.06%	14.09%	7.76%	15.15%	17.68%	11.19%	5.26%	12.17%	15.12%	2.06%	8.87%	7.96%	16.63%	6.59%	17.09%	10.72%	9.30%	11.18%	17.01%	16.06%	20.38%	14.13%																
<i>D. semiglobosa</i>	47.50%	14.57%	17.53%	18.17%	17.53%	14.05%	14.05%	13.83%	12.92%	15.90%	17.14%	6.15%	13.34%	9.06%	11.65%	14.80%	13.67%	13.11%	18.61%	12.65%	17.08%	9.56%	14.34%	6.15%	20.13%	16.81%	20.12%	14.62%	13.56%															
<i>D. sigmoides</i>	47.31%	18.70%	13.06%	14.14%	13.06%	16.83%	18.12%	19.96%	16.97%	17.94%	8.69%	17.65%	18.14%	16.55%	20.01%	17.86%	19.23%	16.61%	1.23%	16.65%	5.93%	15.82%	19.70%	16.02%	15.02%	19.14%	18.75%	20.83%	17.63%	19.37%														
<i>D. sicula</i>	46.06%	19.95%	0.41%	3.35%	0.41%	15.76%	17.01%	19.92%	17.39%	19.76%	12.18%	16.56%	16.05%	15.27%	19.15%	17.02%	18.38%	17.04%	13.59%	16.56%	14.57%	14.81%	17.05%	14.27%	3.96%	20.69%	19.77%	21.62%	16.02%	18.04%	13.54%													
<i>D. subtentaculata</i>	49.88%	13.39%	15.51%	15.62%	15.51%	7.25%	7.26%	13.11%	5.96%	14.41%	14.88%	10.98%	8.16%	12.42%	14.87%	7.25%	8.44%	5.94%	14.84%	5.07%	14.81%	11.24%	8.18%	10.72%	17.52%	15.31%	19.06%	13.64%	7.04%	14.57%	14.81%	16.00%												
<i>D. tumida</i>	47.68%	10.96%	13.29%	14.64%	13.29%	10.94%	10.23%	10.49%	11.02%	11.73%	13.63%	5.29%	10.48%	3.97%	11.44%	11.18%	11.75%	11.21%	15.33%	10.07%	14.82%	5.72%	11.93%	1.85%	16.25%	12.62%	17.72%	11.97%	10.72%	7.26%	15.27%	13.77%	10.24%											
<i>D. umbonata</i>	50.77%	12.66%	15.84%	16.22%	15.84%	14.63%	13.63%	13.16%	12.54%	12.97%	14.22%																																	