

论著

不同地域阴道毛滴虫品系的同工酶电泳分析

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摘要

目的研究中国大陆不同地域(北京、河北唐山、河北承德、江西九江)阴道毛滴虫7个分离株的生物学类型。方法用聚丙烯酰胺凝胶电泳(PAGE)、同工酶染色、聚类分析方法进行分析。结果检测MDH、LDH、G-6-PD、PGI、PGM等5种酶的同工酶。在G-6-PD、PGI酶谱中,7株完全相同。在MDH、LDH酶谱中,北京1株、北京2株、九江3株完全相同,而与承德株、唐山株、九江1株、九江2株不同。在PGM酶谱中,北京1株、北京2株完全相同,而与承德株、唐山株、九江1株、九江2株、九江3株不同。并依酶谱绘制系统进化树。承德株、唐山株、九江1株、九江2株与北京1株、北京2株、九江3株大多数同工酶谱存在显著差异,九江3株与北京1株、北京2株在5个同工酶谱中存在微小差异。结论我国阴道毛滴虫虫株可能至少存在3种不同的生物学类型。

关键词 [阴道毛滴虫](#) [同工酶](#)

分类号

Isoenzyme Analysis on Different Isolates of *Trichomonas vaginalis*

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Abstract

Objective To study the biological types on the seven isolates of *Trichomonas vaginalis* from Beijing, Hebei-Tangshan, Hebei-Chengde and Jiangxi-Jiujiang in the mainland of China. Methods The samples were analyzed by PAGE, isoenzyme stain and cluster analysis. Results The isoenzyme systems used in the study included MDH, LDH, G-6-PD, PGI and PGM. No difference in the isoenzyme patterns of G-6-PD and PGI was found among the seven isolates. The MDH and LDH patterns of Beijing 1, Beijing 2, Jiujiang 3 strains were identical, while they were distinguishable from those of Chengde, Tangshan, Jiujiang 1, Jiujiang 2 isolates. The PGM pattern of Beijing 1 and Beijing 2 isolates were same but was different from that of the remainders. Gene tree was constructed according to the isoenzyme profiles. The results showed that there are differences in the patterns of the five isoenzymes between the isolates of Beijing 1, Beijing 2, Jiujiang 3 and other four isolates, and Jiujiang 3 was different from Beijing 1, Beijing 2 slightly. Conclusion It seems reasonable to assume that there are at least three different biological types of *Trichomonas vaginalis* in China.

Key words [Trichomonas vaginalis](#) [isoenzyme](#)

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