



### 湖北钉螺血淋巴细胞的形态及其分类的研究

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### Hemocyte Morphology and Classification in *Oncomelania hupensis*

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摘要

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**摘要** 分别提取自湖南岳阳市君山区和四川西昌市普格县采集的湖北钉螺 (*Oncomelania hupensis*) 的血淋巴细胞, 经吉氏染色后观察其形态, 鉴定和计数其细胞类型, 测量不同类型血淋巴细胞的形态特征。结果显示, 根据细胞酸碱性和胞内颗粒性质可将钉螺血淋巴细胞分为5类: 嗜酸性大透明细胞、嗜酸性小透明细胞、嗜碱性透明细胞、嗜碱性小颗粒细胞和嗜碱性大颗粒细胞。在5类细胞中, 嗜酸性小透明细胞占细胞总数比例最大, 在君山钉螺中为36.7% (229/624), 在普格钉螺中为31.7% (257/810); 其次是嗜碱性透明细胞, 在君山钉螺中为23.1% (144/624), 在普格钉螺中为24.4% (198/810); 嗜碱性大颗粒细胞所占比例最小, 分别为9.3% (58/624) 和11.6% (94/810)。形态学上, 嗜酸性大透明细胞长径最大、核质比最小, 嗜酸性小透明细胞次之, 碱性细胞长径较小, 核质比较大。两地钉螺血淋巴细胞构成和透明细胞形态差异无统计学意义 ( $P>0.05$ ), 君山钉螺颗粒细胞长径和核质比均小于普格钉螺。

**关键词:** 湖北钉螺 亚种 血淋巴细胞 颗粒 分类

**Abstract:** Hemocytes were collected from *Oncomelania hupensis* in Junshan, Hunan Province and Puge, Sichuan Province, respectively, and stained with Giemsa solution for light microscopic examination. The cells were classified morphologically. Five types of hemocytes were identified, viz., large acidophilic hyalinocytes, small acidophilic hyalinocytes, basophilic hyalinocytes, basophilic small granulocytes and basophilic large granulocytes. The proportion of small acidophilic hyalinocytes was the most abundant hemocyte [36.7% (229/624) in snails from Junshan and 31.7% (257/810) in snails from Puge], followed by basophilic hyalinocyte [23.1% (144/624) in Junshan and 24.4% (198/810) in Puge]. Basophilic large granulocyte was about 9.3% (58/624) in Junshan and 11.6% (94/810) in Puge. The length of large acidophilic hyalinocytes was the maximum and its nucleocytoplasmic ratio was minimum, followed by small acidophilic hyalinocytes. The length of basophilic cells was shorter and its nucleocytoplasmic ratio was smaller than those of acidophilic cells. There was no significant difference in cellular constituents of hemocytes and the morphological features of hyalinocytes between the snails from Junshan and Puge, while the length and nucleocytoplasmic ratio of granulocytes in Junshan snails were smaller than those of Puge ones.

**Keywords:** *Oncomelania hupensis* Subspecies Hemocyte Granule Classification

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