

东北师范大学生命科学学院 2011 级长白山野外综合实习报告



长白山露水河地区鳞翅目 3 种昆虫的染色体核型分析

指导老师：任炳忠

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实习时间：2013 年 7 月 1 日—2013 年 7 月 11 日

中国•长春

二〇一三年九月

Nymphalidae

3400

4 5

R 5

R2 R5 M1 R A 1 (2A)

(h)

A 2 (2A 3A)

Apatura ilia

59 64mm

10 4

1 1 1

1

3~4

, , 9~12 , . , , ,

Mimathyma schrenckii

76

1 2a Cu2 2 2
 2--3 1
 1 1 1/3
 1
Pieridae 1241 129

()

R 3 5 R2 R3 R4 R5
 M1 R A 1 (2A) (h)
 A 2 (2A 3A)

PierisrapaeLinne

9 35
 12 20
 45 55
 1 2
 1

ilia *Insecta* *Lepidoptera* *Nymphalidae* *Apatura*
Nymphaloidea *Lepidoptera* *Rhopalocera*
Moore *Nymphalidae* *Apaturinae* *Mimathyma*
(Insecta) *Mimathyma schrenckii*
(Pierini Duponchel) *(Pterygota)* *(Lepidoptera)* *Pieridae)*
PierisrapaeLinne

60%

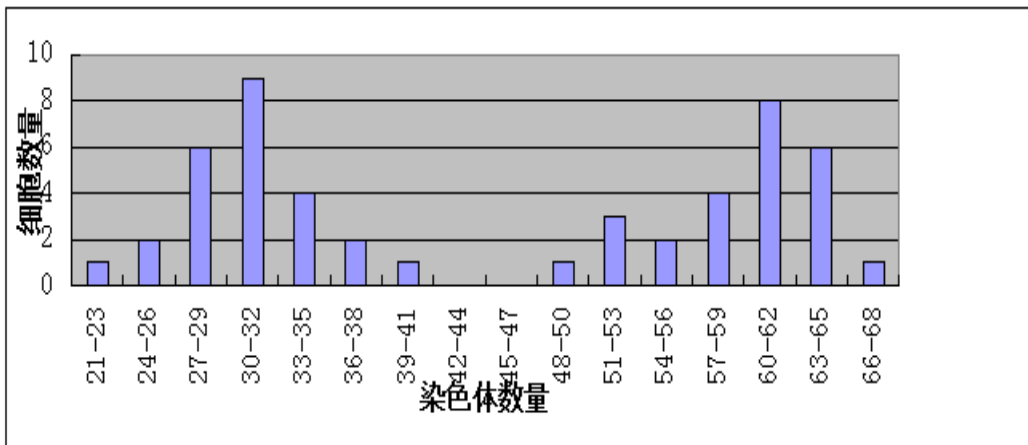
70%

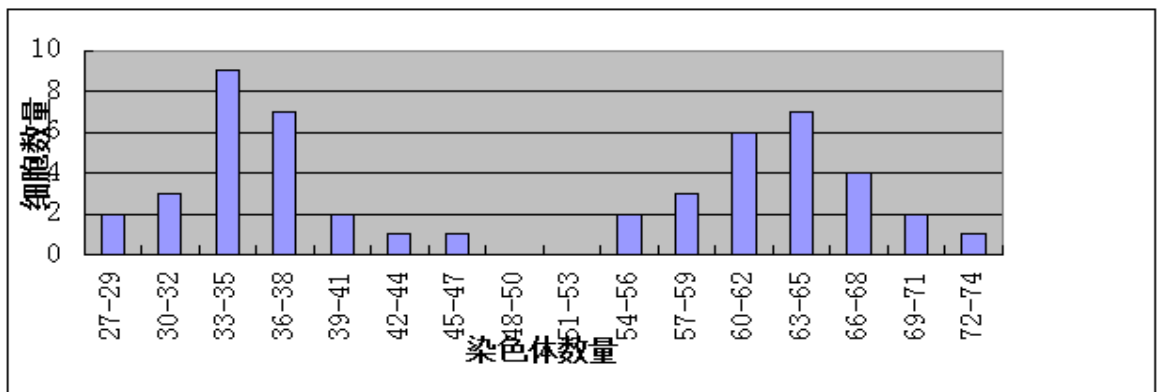
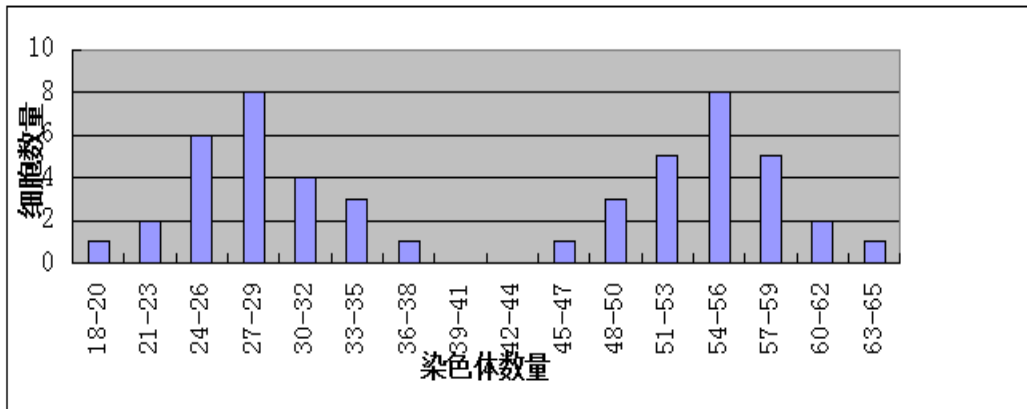
Giemsa PH6.8

2/3
60%
10-20min
10min
PH6.8
15min
Giemsa

×100%

[9]

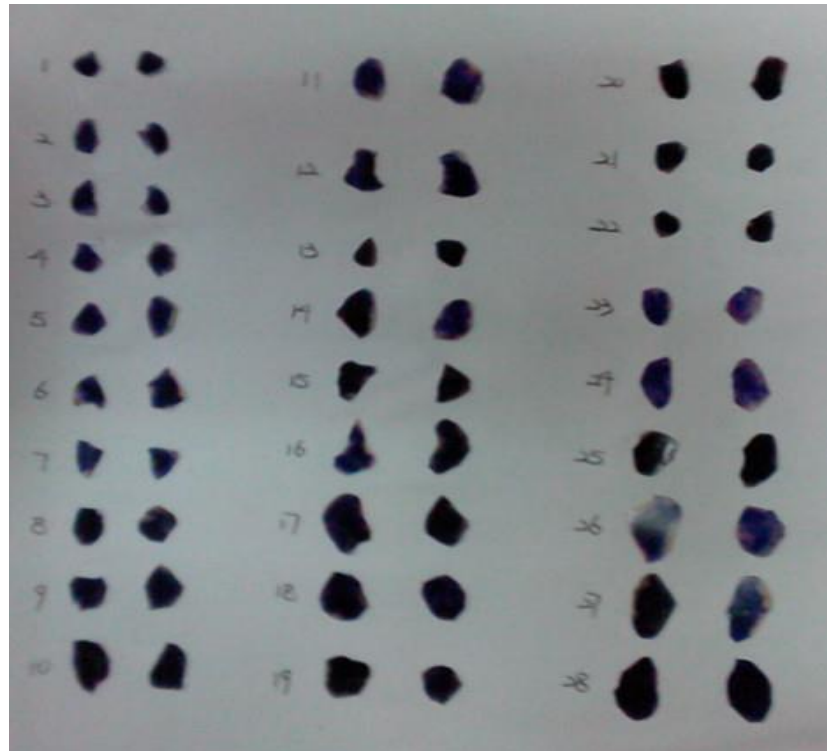
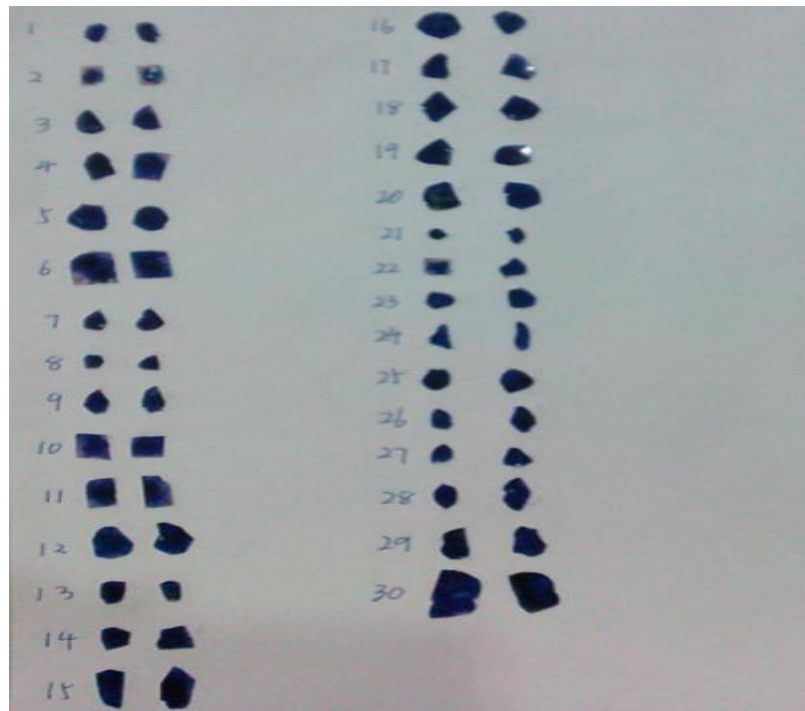


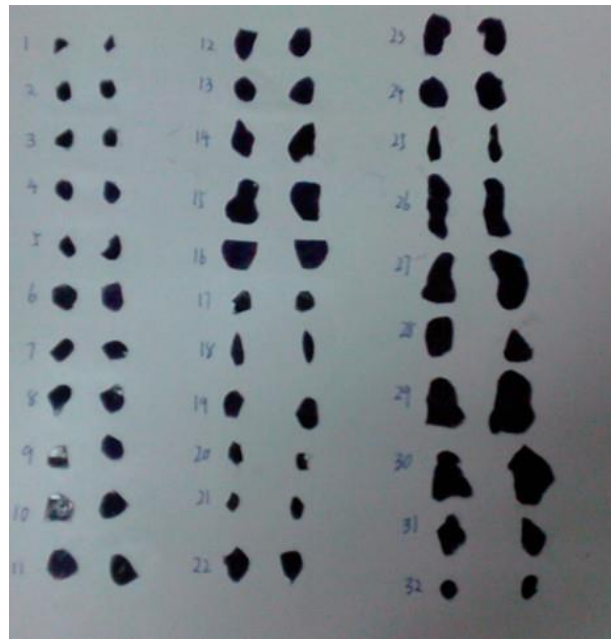


30-32 60-62
 2
 ,
 30 31 27-29 57-59
 n=30
 66-68 n
 n 28 32,
 n=28, n=32

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, ImageJ ,





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