

# 蜜蜂病毒对蜜蜂蜂王的影响

1

125100 2

410205

[9]

[10 11]

[34]

[25, 35]

CBPV<sup>[19, 36, 37]</sup>

### 2.1 病毒在蜂王体内的分布

BQCV DWV

[38, 39]

DWV

DWV

[37] BQCV

[40] KBV

[41]

[42]

[23, 25]

### 2.2 BQCV对蜂王的表型影响

BQCV Baily 1983

BQCV

BQCV

[55, 56]

BQCV

[43, 44]

BQCV

[14, 45]

BQCV

BQCV

[46]

BQCV

[47, 48]

### 2.3 CBPV对蜂王的表型影响

CBPV

RT- qPCR

[49] Amiri

CBPV

CBPV

[25]

### 2.4 DWV对蜂王的表型影响

DWV

[29]

NF- kb

DWV

[50] Delaney

DWV

[51] Gauthier

DWV

[36]

### 3 蜜蜂的免疫防御

[52]

[20]

[53]

[54]

DWV

IAPV

[58] Amiri

IAPV

Y

IAPV

[35]

IAPV

IAPV



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