



**Bee choice of food source and processing inside of the hive, two essential mechanisms to determine bee products quality**

*- antimicrobial - antioxidant – prebiotic -*

**Auswahl von Trachtquellen und die Verarbeitung innerhalb des Stockes, zwei Schlüsselmechanismen zur Qualitätsbestimmung von Bienenerzeugnissen**

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# [ Honey & Bee



# Honig & Biene ]

- Forage: nectar, honeydew  
Tracht: Nektar, Honigtau

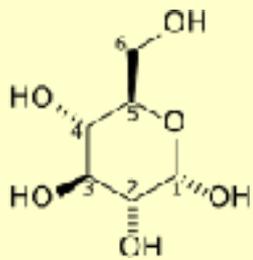


- Processing: food exchange, maturation  
Verarbeitung: Futterverteilung, Reifung

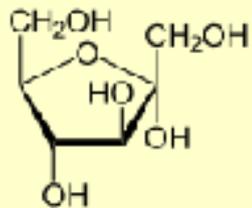


[ Food source ]

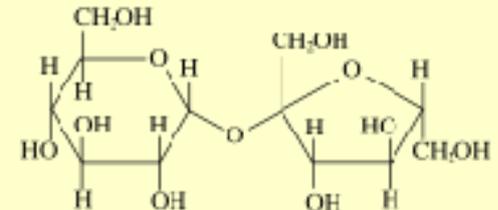
- Sweet sugar solution



➔ *NECTAR & HONEYDEW*

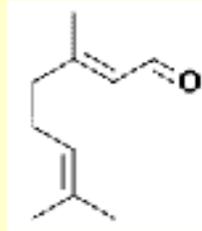


➔ *NEKTAR & HONIGTAU*



eine Zuckerwasserlösung

[ Nectar



Nectar ]



Honeydew

Honigtau



# Auswahl von Trachtquellen

## Forage selection



# Saccharosebelohnung

Sucrose reward



[ Communication

Kommunikation ]



# Fühlertrillern & Futterverteilung

## Palpating and food exchange



# Tanzkommunikation

## Dance communication



# Schwänzeltanzvideo

## Waggle dance video



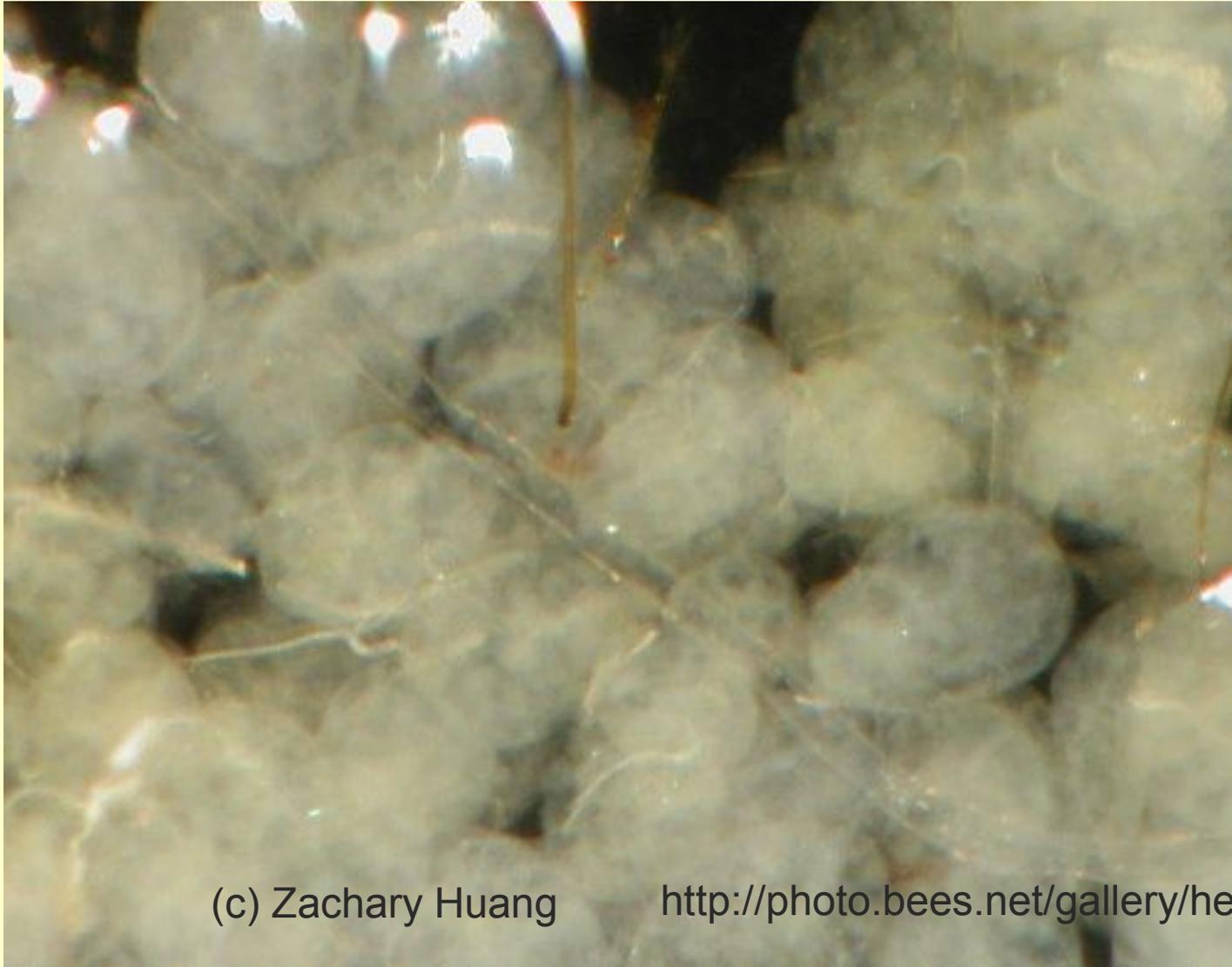
[ Honey maturation

Honigreifung ]



# Enzyme der Biene

Bee enzymes



(c) Zachary Huang

<http://photo.bees.net/gallery/head/hpg>

[ Food exchange

Futterverteilung ]



Enzymes...

Enzyme...

# [ „Klimaanlage“ des BienenStock Hive „air conditioning“ ]



# Forschungsrichtungen

## Future perspectives

- Contribution of food processing glands to the honey quality
- Food exchange & technology solutions
- Honeybee selection
- Drüsenforschungen, die ihre Stoffe während der Honigverarbeitung innerhalb des Bienestocks hinzufügen können
- Möglichkeiten in der Imkertechologie
- Biennenselektion

# Imkerei & Honig Q

## Beekeeping & Honey Q

Thanks !

Danke !

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*Thanks !*

*Danke !*

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*Thanks !*

*Danke !*

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