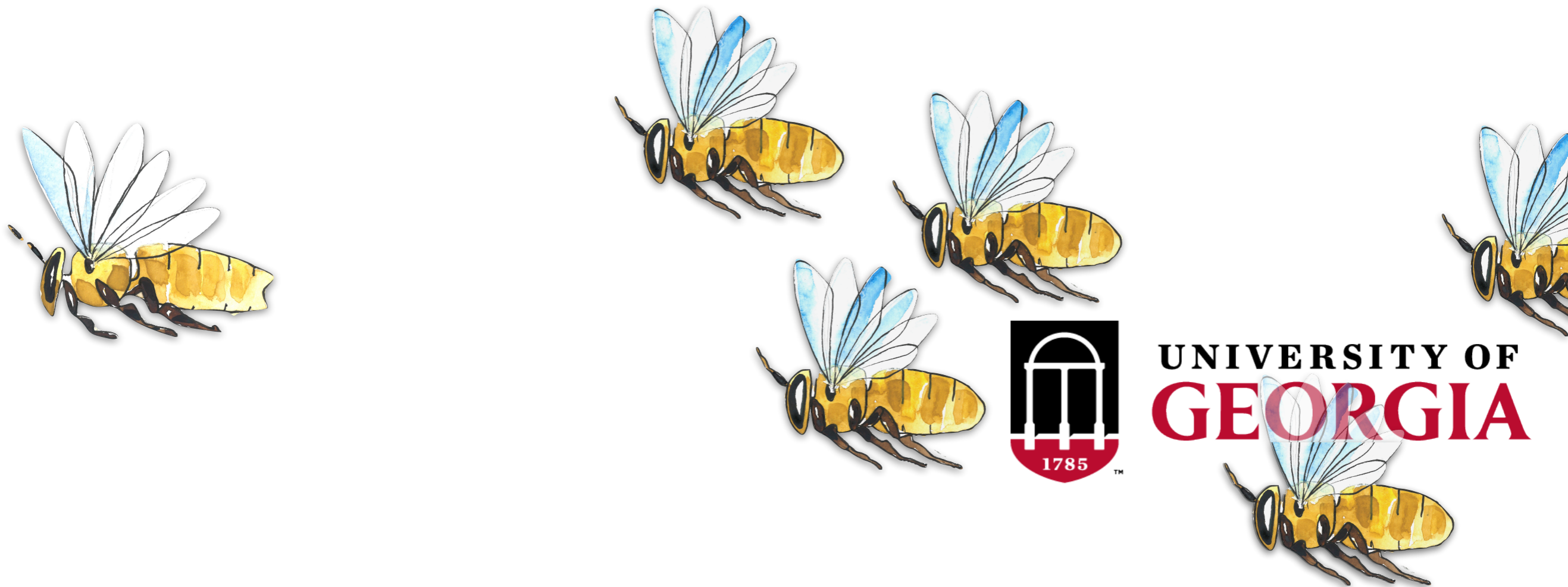


Review for Journeyman Exam Autumn 2021

Diseases, parasites, disorders

Keith Delaplane, Professor and Walter B. Hill Fellow



Honey Bee Program



Locally responsive, globally relevant

Our research addresses sustainable bee health management issues and more basic questions on bee pollination and foraging ecology. We aim to develop research, teaching and extension initiatives that are locally responsive while globally relevant.

About the program

Contact us

Certification Levels & Related Requirements

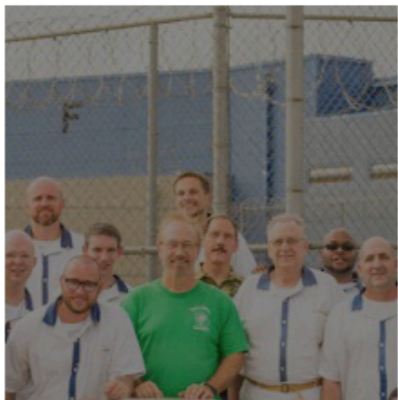
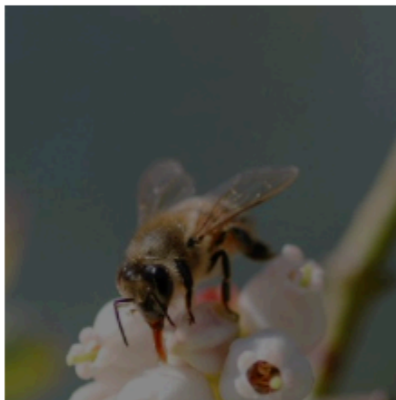
Public Service Requirements

Guidelines for Regionalized Administration of Master Beekeeper Exams

Master Beekeepers

Master Craftsman Beekeepers

Certification Levels Journeyman Study Guide



2021 Young Harris Beekeeping Institute and Certified Testing

The 2021 virtual Beekeeping Institute will be available for viewing the week of May 24, 2021. If you have any

Open "<https://bees.caes.uga.edu/georgia-master-beekeeper-program/certification-levels-journeyman-study-guide.html>" in a new tab

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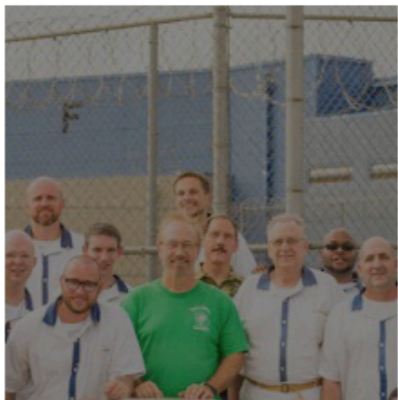
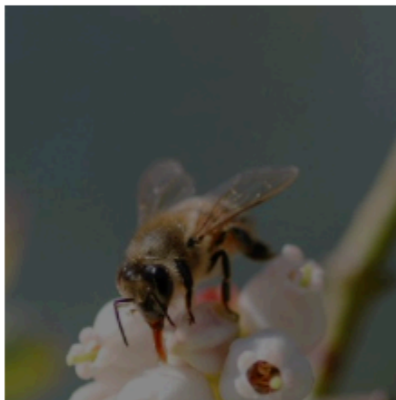
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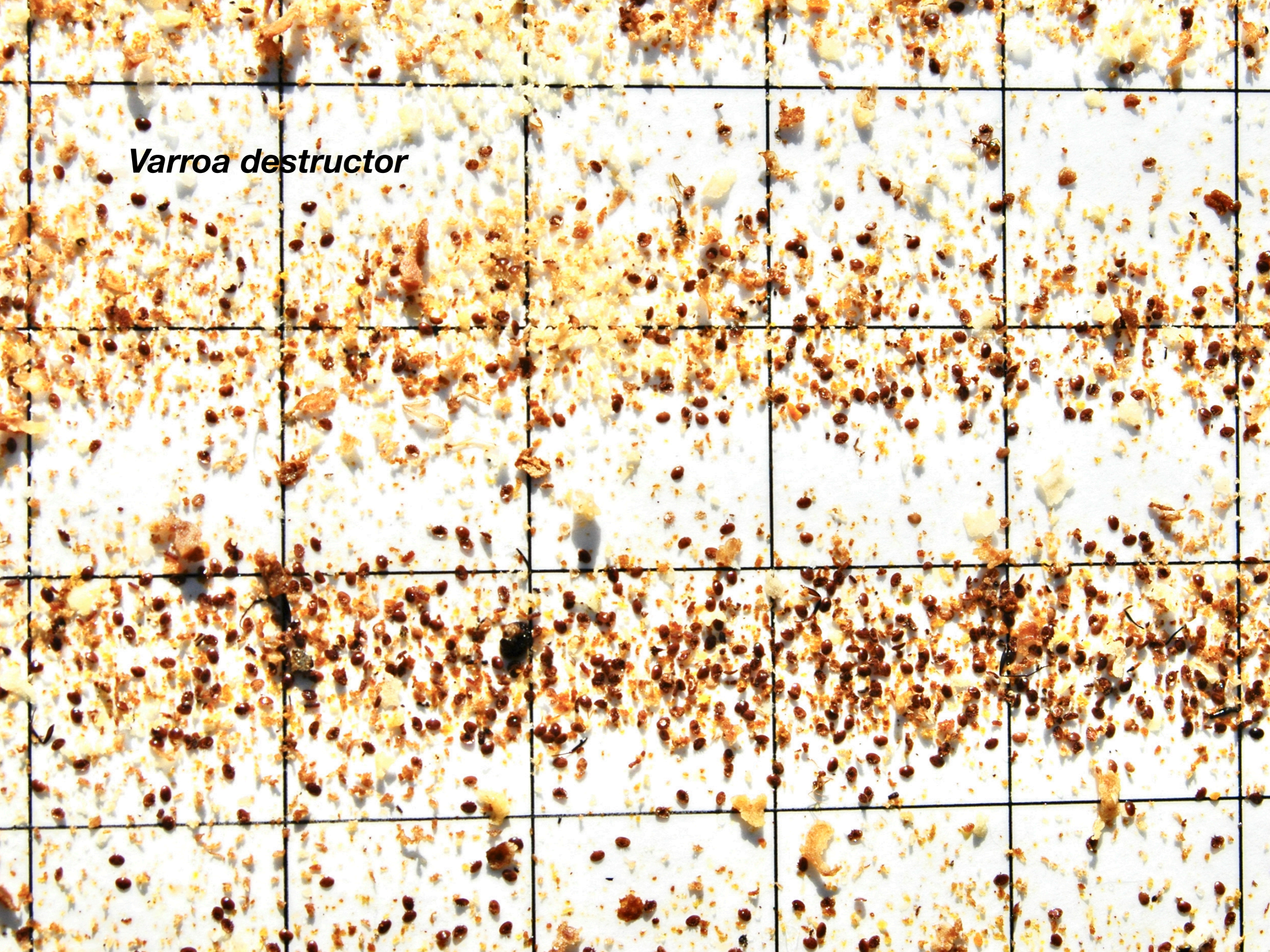
Journeyman Practical Exam

		This column ex-aminer use only		
	pass		fail	
1				Disorder identification #1
2				Disorder identification #2
3				Disorder identification #3
4				Disorder identification #4
5				Disorder identification #5
6				Identify (by common name, adequate description, or taxonomically diagnostic character) the insects or insect artifacts in the case.

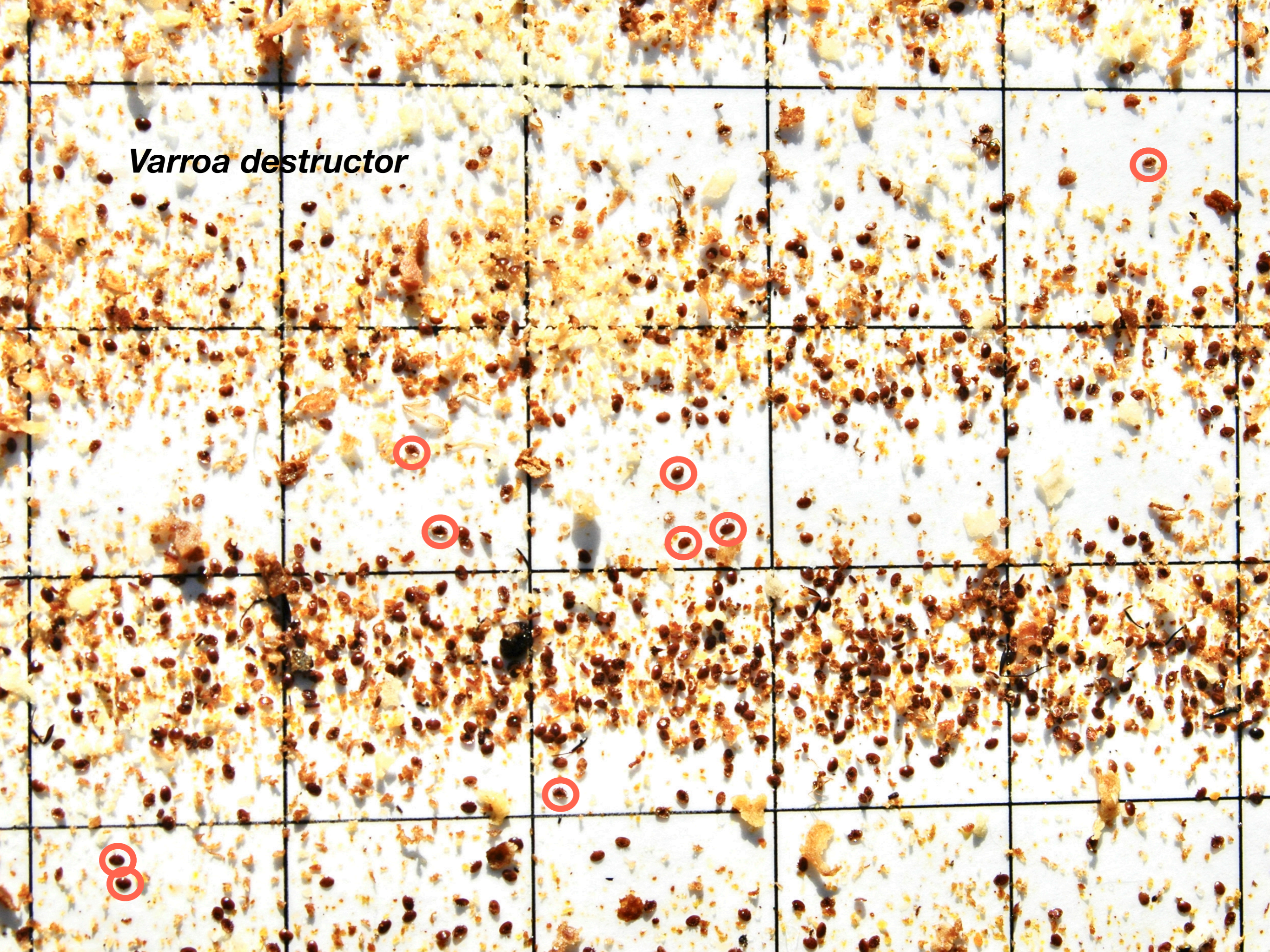
Questions 1-5 may include any of the following. Be prepared to distinguish samples that are both positive and negative for each disorder: Varroa mites, small hive beetles (SHB), Nosema spores, DWV, AFB, EFB, laying worker, drone layer, SHB larvae vs. wax moth larvae. Be prepared to name causative agent (if not same as disorder name) and recommended treatment.

Question 6 will include the following: honey bee worker, honey bee queen, honey bee drone, bumble bee, sweat bee, squash bee, carpenter bee, parasitic wasp, *Vespula* yellow jacket, *Polistes* paper wasp, *Vespa* hornet, cicada killer, leg with corbicula, leg without corbicula, mason bee, and 2 species of fly bee mimics.

Varroa destructor



Varroa destructor



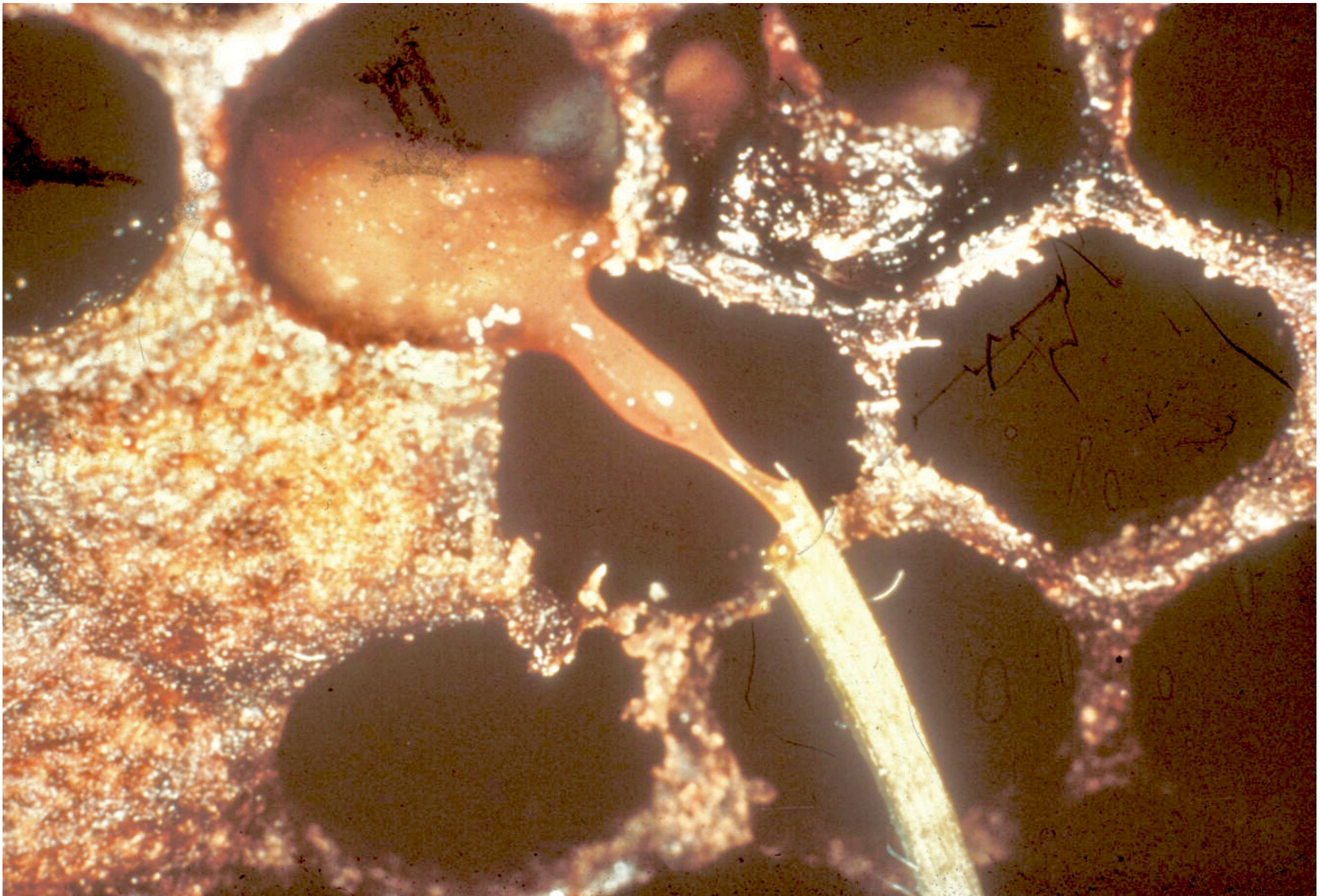
Normal healthy brood



European foulbrood, bacterium *Melissococcus plutonius*



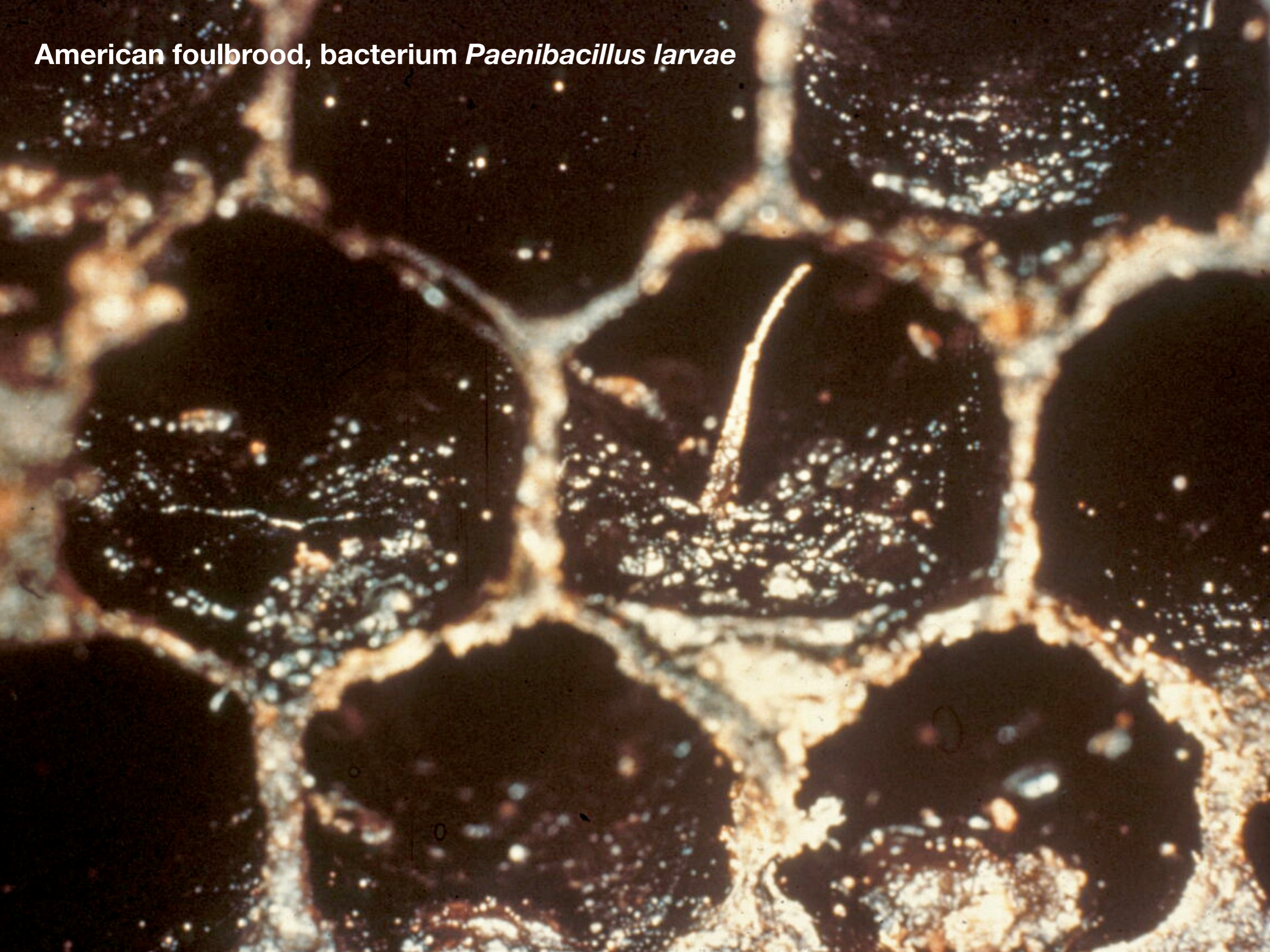
American foulbrood, bacterium *Paenibacillus larvae*



American foulbrood, bacterium *Paenibacillus larvae*



American foulbrood, bacterium *Paenibacillus larvae*



Adult small hive beetle, *Aethina tumida*



Small hive beetle larvae, *Aethina tumida*





Larva, greater wax moth, *Galleria mellonella*

Larva, small hive beetle, *Aethina tumida*



Larva, greater wax moth, *Galleria mellonella*



Larva, small hive beetle, *Aethina tumida*

METRIC

1

2





Larva, greater wax moth, *Galleria mellonella*



← Sclerotized prolegs

Larva, small hive beetle, *Aethina tumida*

METRIC 1

1

2



Wax moth damage, *Galleria mellonella*

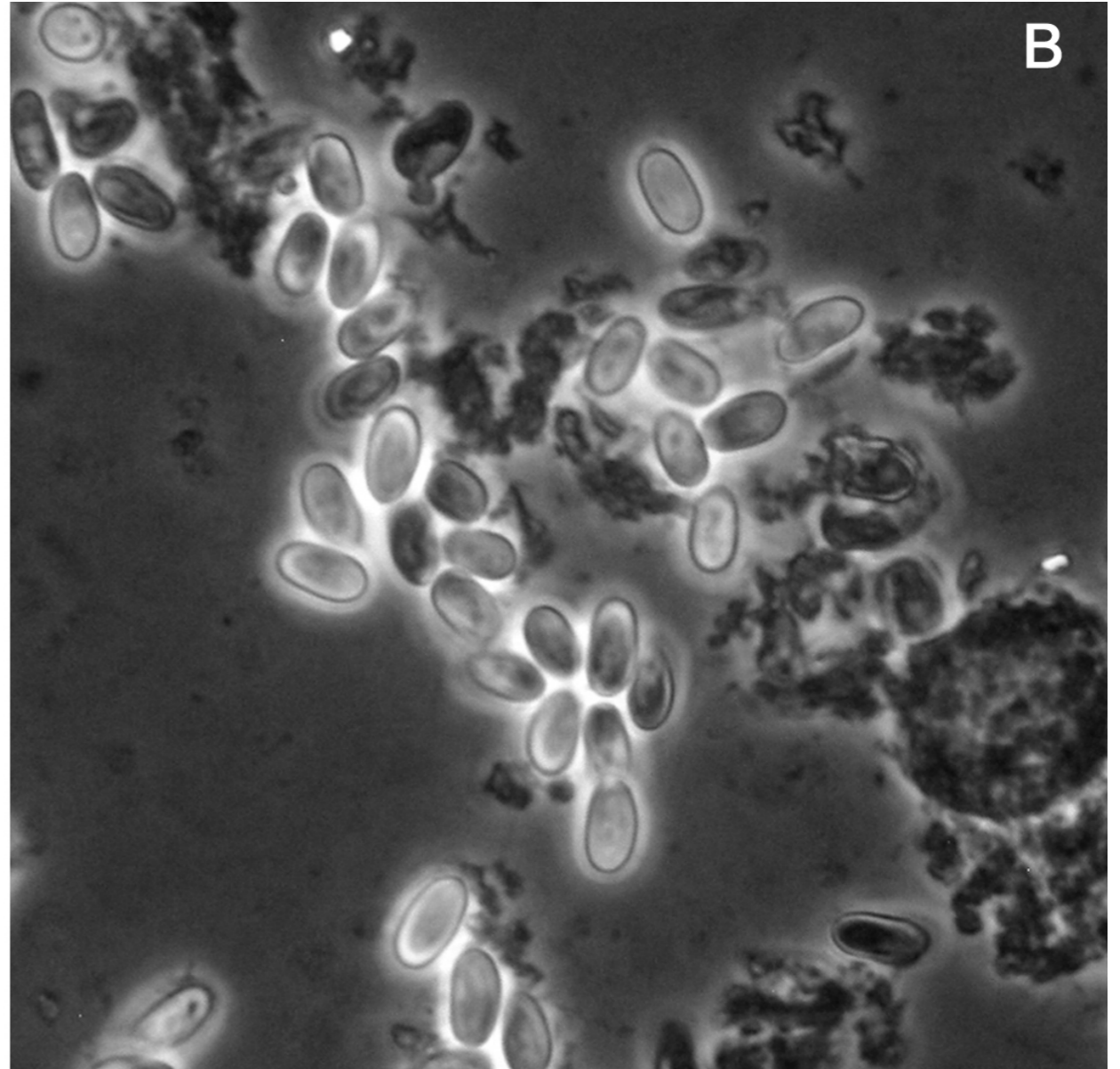
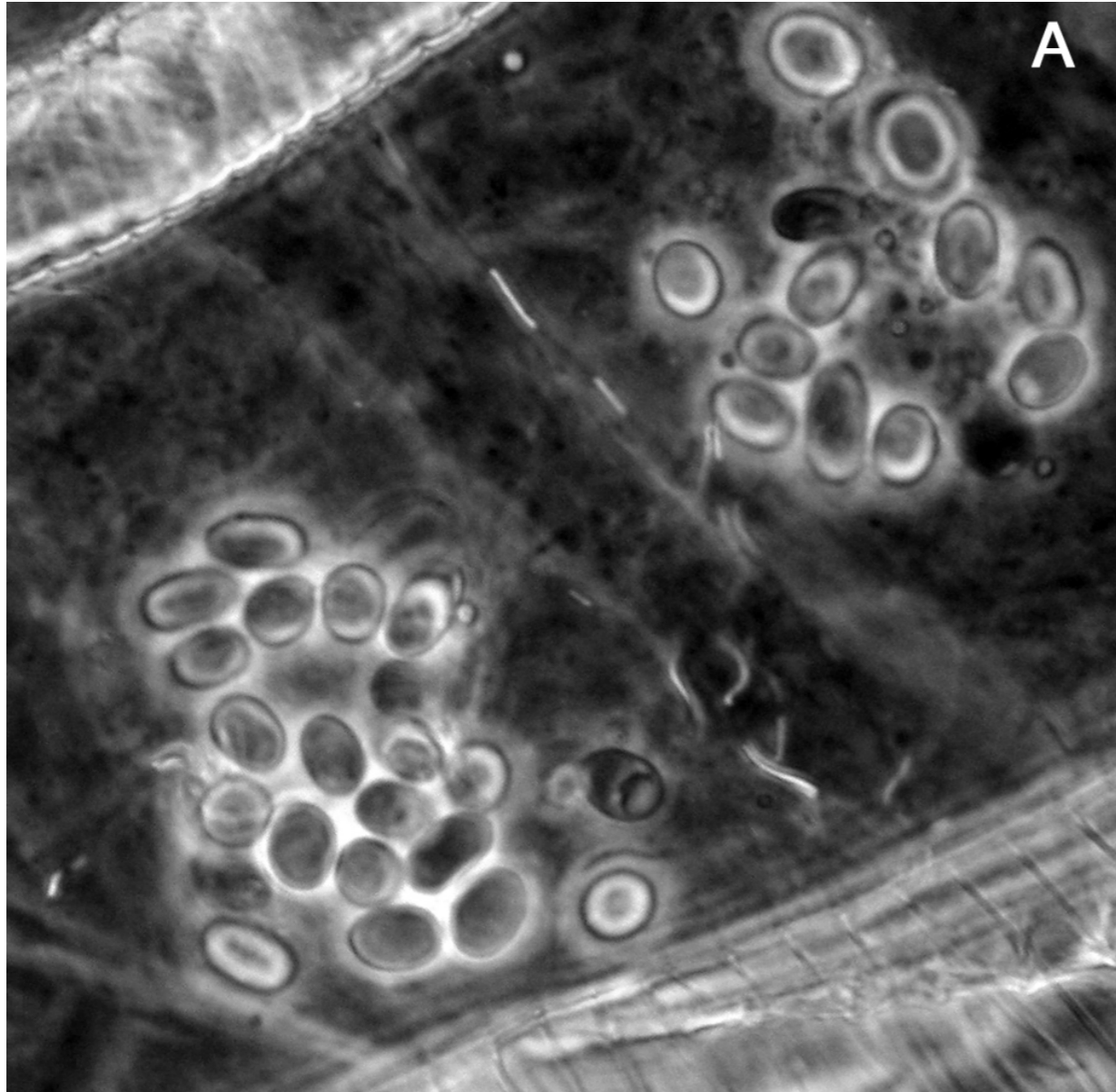


Wax moth damage,
Galleria mellonella



Wax moth damage, *Galleria mellonella*

Infective spores of *Nosema apis*



Leellen Solter, University of Illinois

Dysentery, sometimes associated with *Nosema* disease



Chronic bee paralysis virus

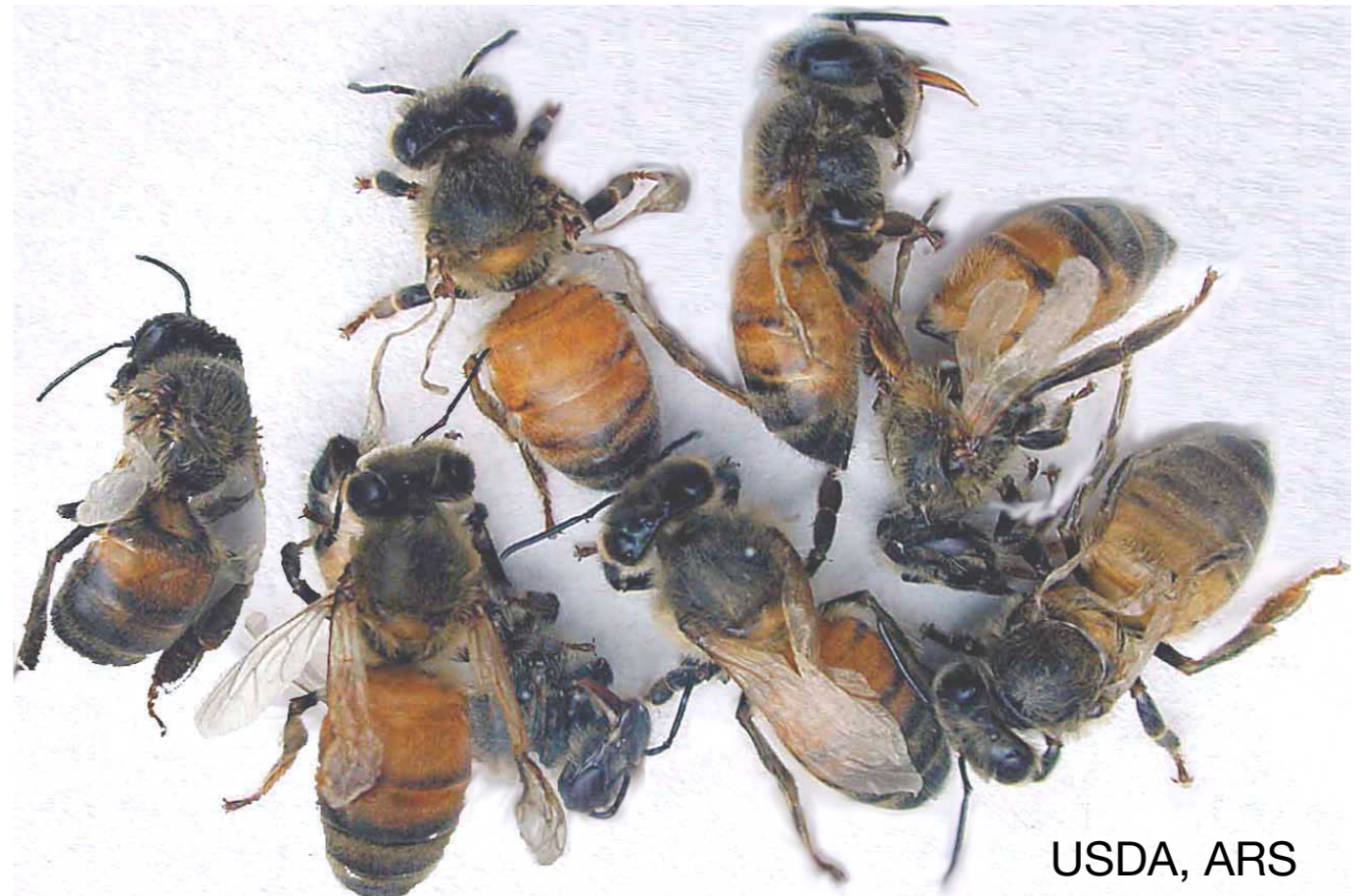


National Bee Unit, Crown copyright

Sacbrood virus

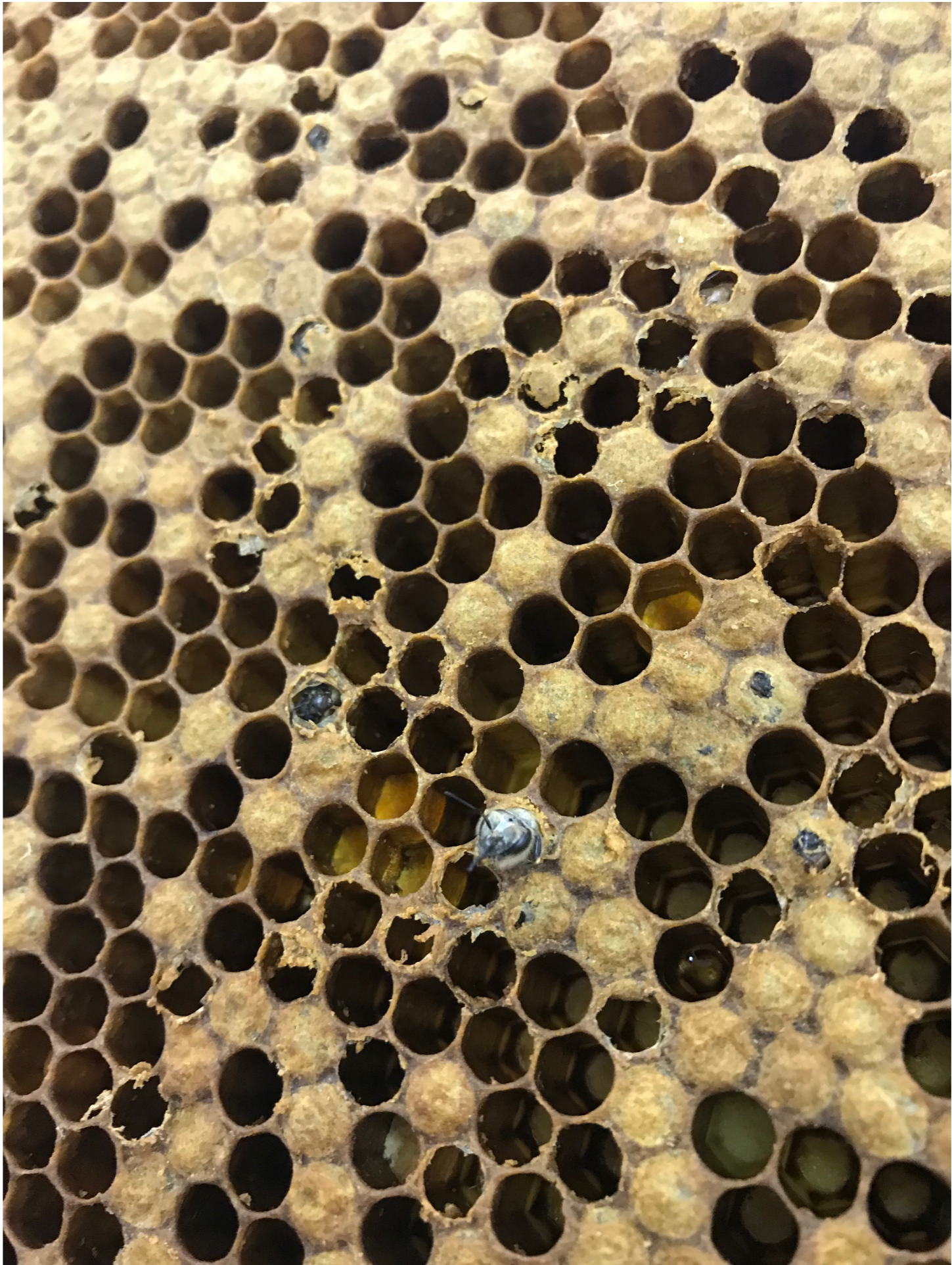


Deformed wing virus



USDA, ARS

Spotty brood due to adult emergence (normal)



Failing queen (non-transmissible)



Drone-laying queen, or laying workers (non-transmissible)



Laying workers (non-transmissible)



Laying workers (non-transmissible)

