

Honey Bee Veterinary Medicine Resources

Useful Websites:

Honey Bee Veterinary Consortium (HBVC):

<https://www.hbvc.org/>

Northern Colorado Beekeepers Association (NCBA):

<https://nocobees.org/>

American Bee Journal:

<https://americanbeejournal.com/>

Honey Bee Health Coalition:

<https://honeybeehealthcoalition.org/>

Scientific Beekeeping:

<http://scientificbeekeeping.com/>

Official Veterinary Guides:

AVMA Guide for Veterinarians on Honey Bees:

<https://www.avma.org/sites/default/files/resources/honeybees-veterinary-medicine-guide-for-veterinarians.pdf>

The role of veterinarians in honey bee health:

https://drive.google.com/file/d/13gP68-wkVoHpJ2Piq57Q5_G2k5TWc05M/view?usp=sharing

FDA Q&A Regarding the Veterinary Feed Directive (VFD):

<https://www.fda.gov/media/94752/download>

<https://www.fda.gov/animal-veterinary/development-approval-process/using-medically-important-antimicrobials-bees-questions-and-answers>

AVMA Outline on How to Complete a Veterinary Feed Directive (VFD):

<https://www.avma.org/instructions-completing-veterinary-feed-directive-vfd-order>

Oklahoma State Veterinary Feed Directive

<http://pods.dasnr.okstate.edu/docushare/dsweb/Get/Document-9930/VTMD-9136.pdf>

USDA Diagnosis of Honey Bee Diseases

<https://www.ars.usda.gov/is/np/honeybeediseases/honeybeediseases.pdf>

University of Arkansas Honey Bee Veterinary Medicine

https://pollinators.msu.edu/sites/_pollinators/assets/File/Honey%20Bee%20Vet%20Med%20Handbook.pdf

Guidelines of judicious use of antibiotics:

<https://drive.google.com/file/d/1c8ayCeYJ8zNt8O4sgpnhwxyzvCqwav0Kb/view?usp=sharing>

Honey Bee Biology & Diseases:

Honey bees and medicine:

https://drive.google.com/file/d/1laznXpQUPiz-yugTZWGhqSl_w3Y3uMiZ/view?usp=sharing

The External Anatomy of the Honey Bee

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/20,-August-2015,-External-Anatomy,-low-res.pdf>

The Internal Anatomy of the Honey Bee

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/21,-September-2015,-Internal-Anatomy,-low-res.pdf>

Honey Bee Diseases and Pests

https://www.beelab.umn.edu/sites/beelab.umn.edu/files/_2016_disease_pdf_version_s.pdf
<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/AA09000-Pests-and-Diseases.pdf>

A Field Guide to Honey Bees and Their Maladies

https://nybeewellness.org/wp-content/uploads/2014/04/Field_guide_to_honeybees_and_their_maladies.pdf

Bee Pests

https://edis.ifas.ufl.edu/topic_bee_pests

Varroa Mites:

<https://honeybeehealthcoalition.org/varroa/>

Non-Infectious Diseases and Pests

<https://bees.caes.uga.edu/bees-beekeeping-pollination/honey-bee-disorders/honey-bee-disorders-non-infectious-diseases-and-pests.html>

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/31,-July-2016,-Biotic-Stressors-of-Honey-Bees,-low-res.pdf>

Basic Stressors of Honey Bee Colonies

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/31,-July-2016,-Biotic-Stressors-of-Honey-Bees,-low-res.pdf>

Honey Bee Biology Links

<http://entnemdept.ufl.edu/honey-bee/beekeeper-resources/honey-bee-biology/>

Best Management Practices for Hive Health:

<https://drive.google.com/file/d/1c8ayCeYJ8zNt8O4sgpnhwxzVCqwav0Kb/view?usp=sharing>

FREE Videos on Honeybee Medicine:

Webinars on Honey Bee Health:

<https://beeinformed.org/education-outreach/webinars/>

UC-Davis Honey Bee Pathology and Diseases:

https://www.youtube.com/playlist?list=PLaJ3HP7FNKo3xqJ31cwhLD8rmjDcB_eUc

Vet guide to honey bee antibiotics:

<https://youtu.be/Vqtwawz-zT4>

Honey bees: A New Species for Veterinarians?:

<https://youtu.be/M4ii0WYD6F8>

VFD - Honey bee Health Seminar for Vets (5 Part Series):

<https://youtu.be/ac-Sm1liO9A>

Euthanizing a dangerous hive:

<https://youtu.be/O4ldpyIE5t4>

AVMA Honey bees and Veterinarians:

<https://www.avma.org/sites/default/files/resources/webinars-on-demand-CE.html>

AVMA Why Do Honey Bees Need a Veterinarian?

<https://www.avma.org/sites/default/files/resources/webinars-on-demand-CE.html>

FREE Online Modules on Honeybee Medicine:

USDA Module on the Veterinary Feed Directive (VFD):

<https://nvap.aphis.usda.gov/VFD/index.htm>

USDA Module on the Role of Veterinarians in Honeybee Health:

<https://nvap.aphis.usda.gov/BEE/bee0001.php>

To Submit Hive Samples for Testing:

USDA Bee Lab:

<https://www.ars.usda.gov/northeast-area/beltsville-md-barc/beltsville-agricultural-research-center/bee-research-laboratory/>

Directions on Submitting Samples:

<https://www.ars.usda.gov/northeast-area/beltsville-md-barc/beltsville-agricultural-research-center/bee-research-laboratory/docs/how-to-submit-samples/>

Honey Bee Veterinary Medicine Textbooks:

Honeybee Veterinary Medicine: Apis Mellifera L.

<https://www.amazon.com/Honeybee-Veterinary-Medicine-Apis-Mellifera/dp/1910455040>

Honey Bee Medicine for the Veterinary Practitioner

https://www.amazon.com/Honey-Bee-Medicine-Veterinary-Practitioner/dp/1119583373/ref=sr_1_3?dchild=1&keywords=honey+bee+medicine&qid=1607034403&sr=8-3

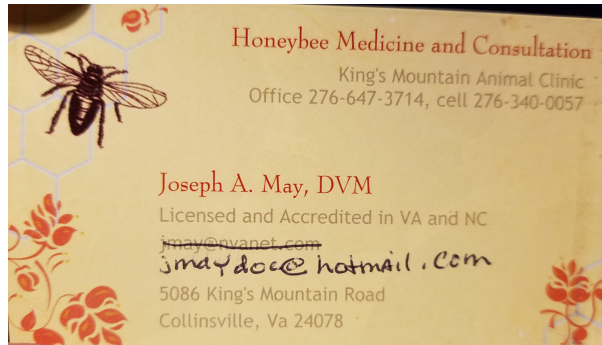
Potential Honey Bee Veterinary Medicine Externships / Experiences:

Joe May, DVM (CSU grad 1976)

Small Animal Medicine (perform procedures)

jmaydoc@hotmail.com

"I am listed on the Honey Bee Veterinary Consortium Find a Vet website but the majority of cases are referred by State Inspectors. Last year I visited an Apiary with 100 Hives with European Foulbrood after the inspector had positive lab tests. I've also had calls out of the blue from Beekeepers wanting a prescription to treat AFB but with no desire for a visit, inspection, or lab testing. I'm in 2 bee clubs and very few of them will even do mite counts and I haven't been able to convince them to. They treat but they don't monitor! As for the ones calling, most have been using terramycin for years as a preventive and are looking for a new source of meds!"



Dr. Jörg Mayer

Associate Professor of Zoological Medicine,
College of Veterinary Medicine, University of Georgia

mayerj@uga.edu

<https://news.uga.edu/new-beehives-added-for-veterinary-training/>

"I am currently in the midst of creating a 3 week 'vet bee' elective for 4th year students starting on March 15. I limited the participants to 10 students max and I fear that that it will be overbooked. The course will contain lectures and hands on experiences."

General Beekeeping Resources

Bee Basics:

Members of a Honeybee Colony

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/18,-June-2015,-Members-of-a-Honey-Bee-Colony,-low-res.pdf>

Tasks of a Worker Honey Bee

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/22,-October-2015,-Tasks-of-Worker-Bees,-low-res.pdf>

Mating Biology of Honey Bees

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/24,-December-2015,-Mating-Biology,-low-res.pdf>

Thermoregulation and Dance

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/26,-February-2016,-Thermoregulation-and-Dance-Language,-low-res.pdf>

Superorganisms

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/27,-March-2016,-Superorganisms,-low-res.pdf>

The Honey Bee Sting

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/25,-January-2016,-Stings,-low-res.pdf>

Bee Stocks

<http://entnemdept.ufl.edu/media/entnemdeptifasufledu/honeybee/pdfs/14,-February-2015,-Stocks-of-Bees-in-the-US,-low-res.pdf>

Beekeeping Guides:

Integrated Hive Management for Colorado Beekeepers:

<https://arapahoe.extension.colostate.edu/wp-content/uploads/sites/10/2020/01/CO-IHM-Book-for-Print-2020.pdf>

FREE Videos on Beekeeping:

Honeybees and Beekeeping Basics:

<https://youtu.be/vnvh6Bb7PVw>

Beekeeping and Honey Bee Biology (must have iTunes U app)

<https://itunes.apple.com/ca/course/beekeeping-honey-bee-biology/id1072789096>

Beekeeping Classes:

Northern Colorado Beekeepers Association (NCBA) Class in January/February:

<https://nocobees.org/beekeeper-classes/>

Beekeeping 101 Course (Penn State online - available anytime)

<https://extension.psu.edu/beekeeping-101>

Beekeeping 101 Course (Organic Life Guru - available anytime)

<https://organiclifeguru.com/course/beekeeping-101-organic-natural-traditional/>

Other Resources

Pollinators as an indicator species:

https://link.springer.com/content/pdf/10.1007%2F978-94-007-1942-2_16.pdf

The benefit of bees:

<http://www.new-ag.info/00-5/focuson/focuson8.html>

On Einstein and Honey bees:

<http://caes2.caes.uga.edu/bees/OnEinsteinBeesandSurvivaloftheHumanRaceHoneyBeeProgramCAESEntomologyUGA.html>

Honeybee travel to California (NPR interview):

<https://www.npr.org/2017/03/09/519500033/bees-travel-cross-country-for-the-california-almond-harvest>

Great hive management resources:

<http://scientificbeekeeping.com/>

<https://americanbeejournal.com/>

Christina Geldert's interview on Podcast A Vet:

<https://podcastavet.com/podcast/veterinarians-save-the-bees>

Bee Culture: Do I need a vet for my bees?

<https://www.beeculture.com/do-i-need-a-vet-for-my-bees/>

"The buzz: New beehives coming to Horticulture Center in May"

Colorado State University SOURCE News

Feature by Jeff Dodge

<https://source.colostate.edu/the-buzz-new-bee-hives-coming-to-horticulture-center-in-may/>

"Episode 037: How Veterinarians Can Help Save the Bees W/ Christina Geldert"

Podcast a Vet with Dr. John Arnold

<https://podcastavet.com/podcast/veterinarians-save-the-bees>

"Students Buzzing with Activity in Beekeeping, Bee Medicine Clubs"

Colorado State University SOURCE News

Feature by Mary Guiden

<https://source.colostate.edu/students-buzzing-with-activity-in-beekeeping-bee-medicine-clubs/>

"What happens to bees in winter?"

Colorado State University SOURCE News

Feature by Mary Guiden

<https://source.colostate.edu/what-happens-to-bees-in-winter/>

"New Colorado State University club is busy As a bee"

The Fence Post article by Marty Metzger

<https://www.thefencepost.com/news/new-colorado-state-university-club-is-busy-as-a-bee/>