

CHHE

Comparative Pathology Core Information Session

Keith E. Linder
May 3rd, 2016

Comparative Pathology Core (CPC)

Core Personnel / Pathologists



Dr. Keith E. Linder
DVM, PhD, ACVP,
CPC Director



Dr. Heather Shive
DVM, PhD, ACVP,
**CPC Associate
Director**



Dr. Debra Tokarz
DVM, PhD, ACVP,
**CPC Comparative
Pathologist**

Network of Consulting Pathologists

Dave Malarkey DVM, PhD, ACVP - *NIEHS*

John Cullen DVM, PhD, ACVP - *NCSU*

Luke Borst DVM, PhD, ACVP - *NCSU*

Jennifer Luff DVM, PhD, ACVP - *NCSU*

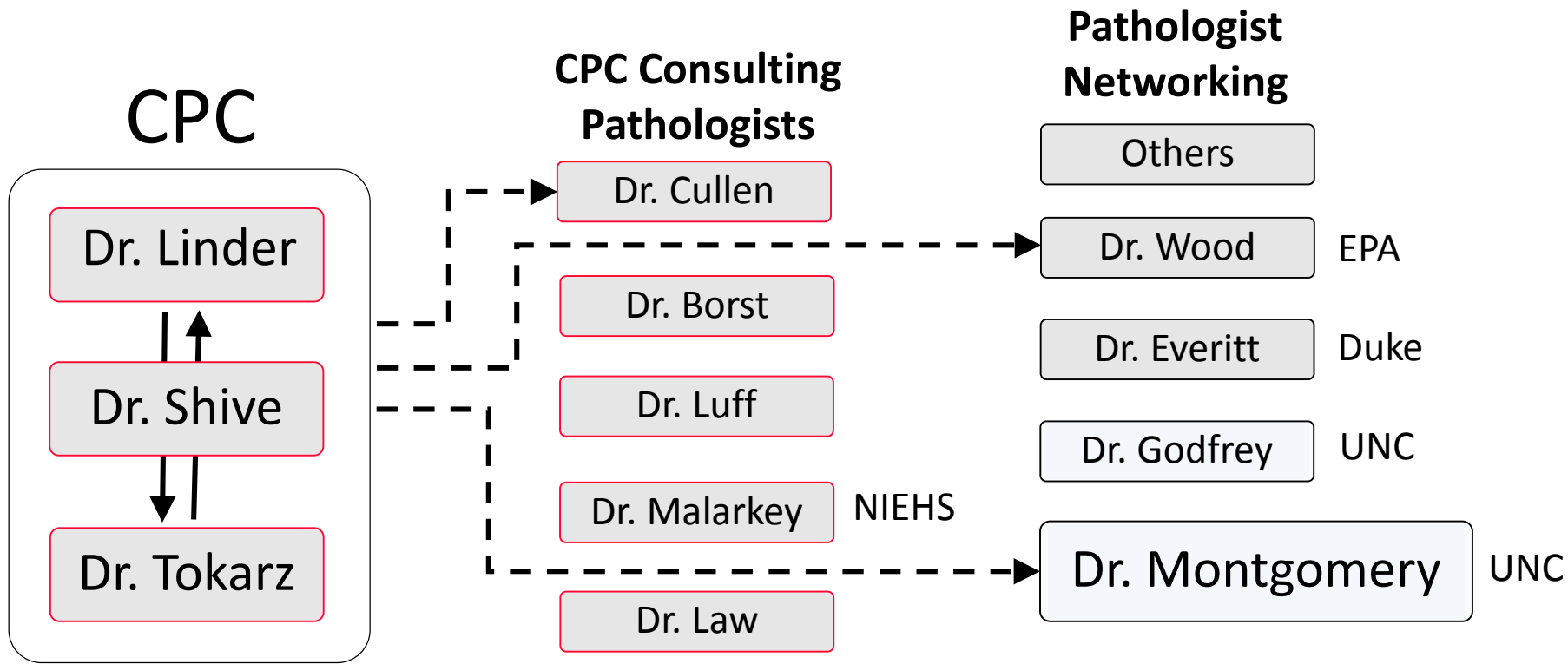
Mac Law DVM, PhD, ACVP - *NCSU*

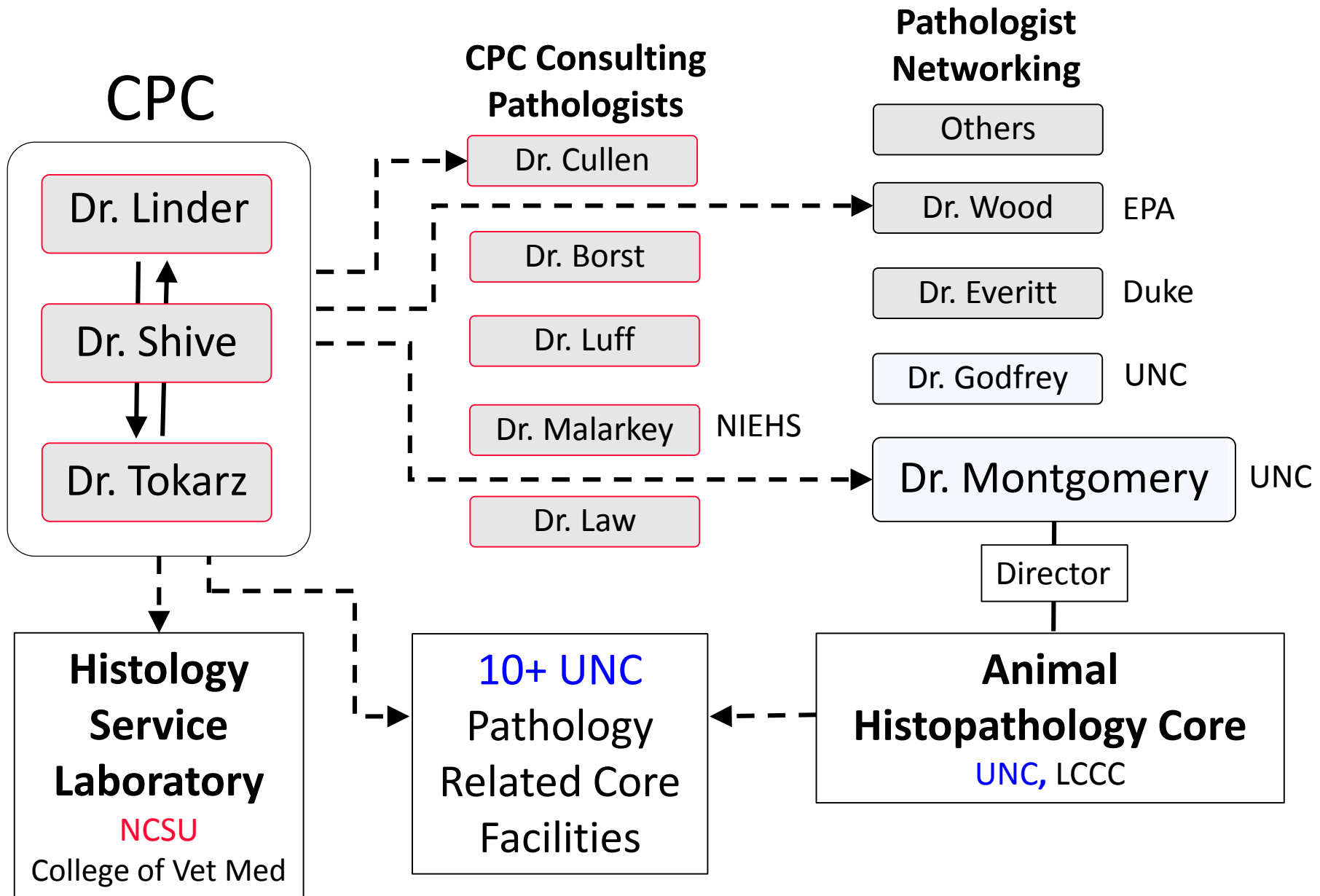
Comparative Pathology Core (CPC)

“The CPC provides a single portal for CHHE member scientists to access unparalleled pathology expertise of a diverse range of animal models...”

Specific Aims of the Comparative Pathology Core:

- AIM 1.** Provide CHHE members with expert pathology assessment of diverse animal models.
- AIM 2.** Foster pathology research collaborations between environmental health scientists leading to joint-authored grant applications and publications.
- AIM 3.** Integrate pathology (CPC) and Systems Technologies Core (STC) capabilities utilizing laser-capture micro-dissection to isolate specific cells for advanced biomolecule evaluation.
- AIM 4.** Provide access to animal diseased-tissue archives to study companion animals as sentinels in the human environment and possible new large animal models.
- AIM 5.** Provide training in pathology techniques and tissue assessment methods.





CHHE Seed Money!!

Comparative Pathology Core (CPC)

Services:

- Study design
- Multiples vertebrate species
 - Rodents, fish, frogs, pigs, cats, dogs, etc.
- Necropsy methods
 - Tissue sampling, fixation and processing
- Pathology consultation
 - Gross, histologic, ultrastructural pathology
 - IHC protocol development
- Pathology assessment tools
 - Lesion scoring, morphometrics analysis, etc.

Comparative Pathology Core (CPC)

Services:

- Laser capture microdissection (LMD)
 - Leica LMD-7000
- Animal tissue archives
- Grant support and collaboration
 - CPC letters of support, grant methods, effort
- Publication support and collaboration
 - Text, histology images, etc.
- Training
 - Necropsy, pathology assessment methods, etc.
 - Histology / IHC techniques (limited, via histology lab)

Contacting the Comparative Pathology Core

NC STATE

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QUESTIONS?

Keith E. Linder
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