

# Veterinary Bioscience: Cells to Systems

## Theme 2 – Anatomy: The body and skeleton

### Lecture 5: The Language of Anatomy

**Lecturer:** Dr Janine Hofmann

Janine is a Lecturer in Veterinary Anatomy at the University of Melbourne. Janine graduated from The University of Melbourne before working in small animal practice for 10 years. She rejoined the university to undertake a PhD in veterinary microbiology, in addition to teaching within the disciplines of veterinary anatomy and physiology.

**Email:** [hofmann.j@unimelb.edu.au](mailto:hofmann.j@unimelb.edu.au)



## Intended Learning Outcomes

At the end of this lecture, you should be able to:

- Describe the position, relationships, form, and appearance of important animal structures and features
- Apply correct terminology for normal and novel structures in a meaningful way

## Keywords

- Position terms: left/right; medial/lateral; ventral/dorsal; cranial/caudal/rostral; palmar/plantar; superficial/deep; proximal/distal; axial/appendicular; axial/abaxial.
- Planes: median; sagittal; transverse; dorsal.
- Movement terms: flexion/extension/hyperextension, adduct/abduct, supinate/pronate.
- Prefixes: epi; peri; endo; dia; meta; infra; sub; supra, ante, anti, ab; ad; hypo; hyper.
- Tissues: bones, joints, cartilage, muscles, ligaments, tendons, nerves, veins, skin.

## Lecture Overview

To facilitate meaningful, unambiguous communication, anatomy has standardised names for all the structures of the body, and many parts within these structures, as well as description terms for position and relationships. In this lecture, we introduce the basic terminology and look at how anatomical names and terms are used to communicate complex 3D positions and relationships in a clear and precise manner.

## Further Reading

Nomina Anatomica Veterinaria – available online [here](#).

Studdart, Gay & Hinchcliff. *Saunders Comprehensive Veterinary Dictionary*. Elsevier, Missouri. Available as a downloadable e-book through the University library [here](#).

Singh. *Dyce, Sack & Wensing's Textbook of Veterinary Anatomy* (any edition). Elsevier, Missouri. Link to its' University library page [here](#).

König & Liebich. *Veterinary Anatomy of Domestic Mammals* (any edition). Link to its' University library page [here](#).

Hermanson, de Lahunta & Evans. *Miller and Evans' Anatomy of the Dog* (any edition). Elsevier. Available as an e-book through the University library [here](#).