ANATOMY: lessons from history

Brian Freeman May 2015

www.drawingonanatomy.com.au

gross anatomy (macroscopic anatomy)
histology (microscopic anatomy)
embryology (developmental anatomy)

MORPHOLOGY

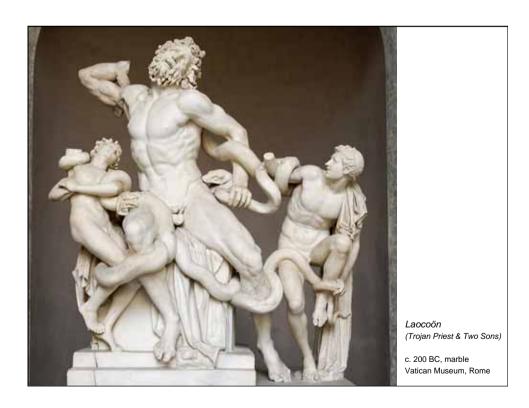
Morphology is the mathematics of the organic; therefore it is the basis of biology.

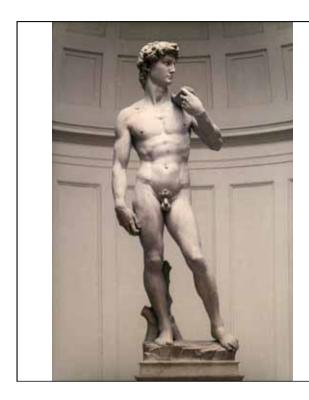
(Erich Blechschmidt, 1963)



Wrestling: Relief Base of a Funerary Statue of a Kouros

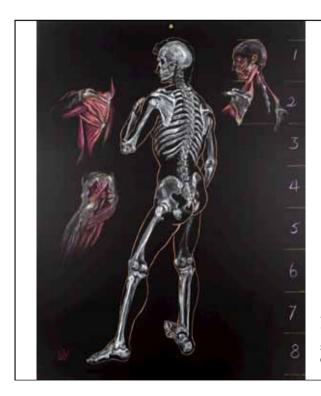
c. 510 BC
marble, 29 x 79 cm, National Archeological Museum, Athens
(found built into the Themistoclean Walls in 1922)





David, 1501–4

Michelangelo (1475–1564) marble, 517 cm high Galleria dell'Accademia, Florence



Michelangelo's David Anatomized: Proportion & Contrapposto (back view)

Susan Dorothea White, 2006 chalk on blackboard, 116 x 86 cm



Art is the queen of all sciences communicating knowledge to all the generations of the world

Leonardo da Vinci (1452-1519)

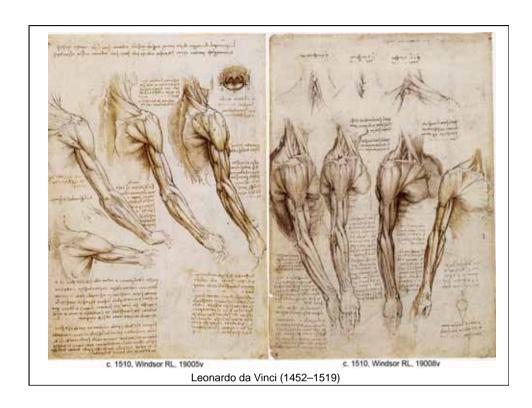
c. 1510 Windsor RL, 19012v 29 x 20 cm

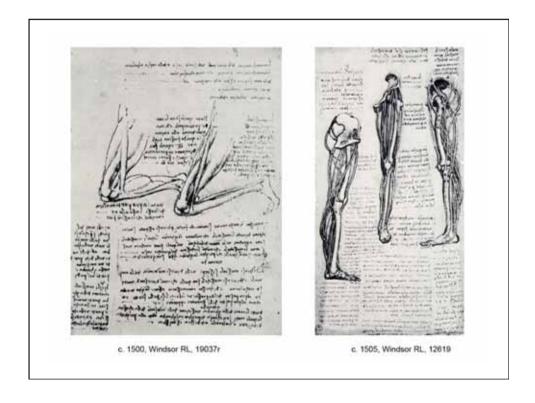


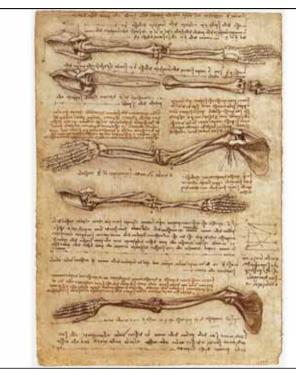
Where the spirit
does not work with
the hand, there is
no art.
Study the science of
art and the art of
science

Leonardo da Vinci

Centenarian c. 1510 Windsor RL, 19001v





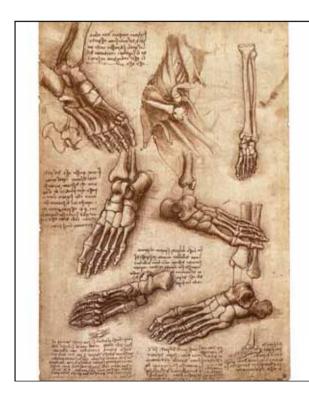


pesce del braccio

[biceps brachii]
muscle is especially
important in picking
up food turning the
hand and
putting the food in
the mouth...

Leonardo da Vinci

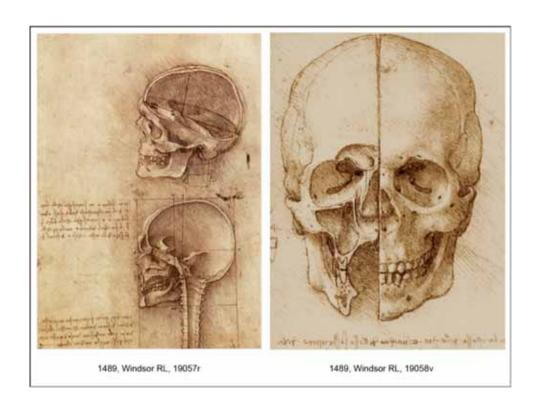
c. 1510 Windsor RL 19000v

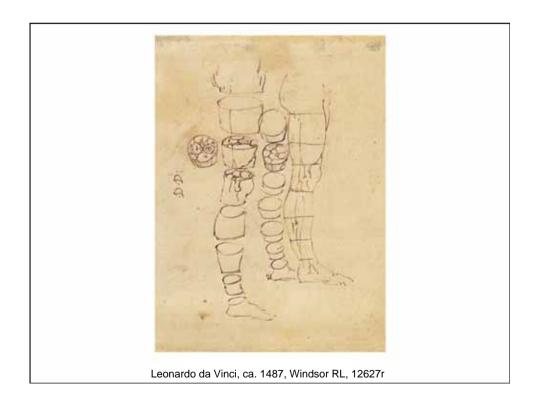


the human foot is a masterpiece of engineering and a work of art

Leonardo da Vinci

c. 1510 Windsor RL, 19011r

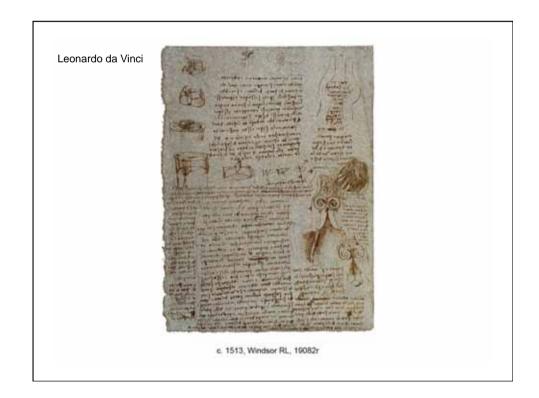


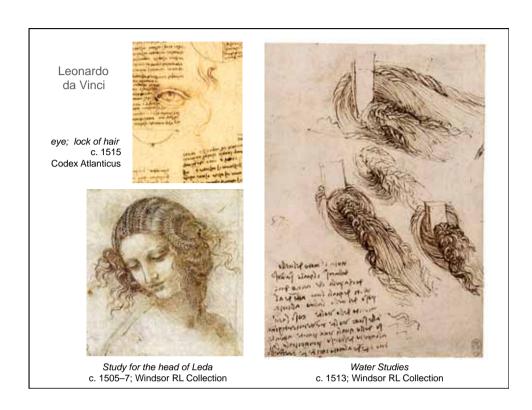


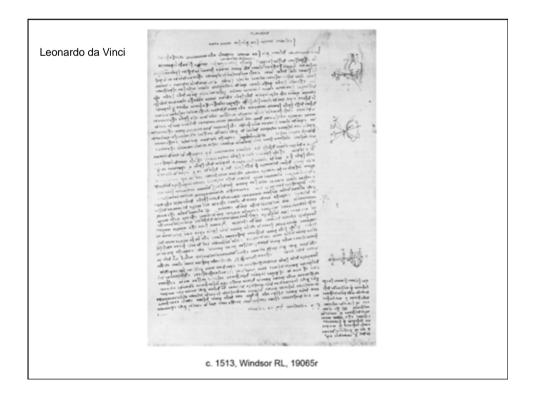


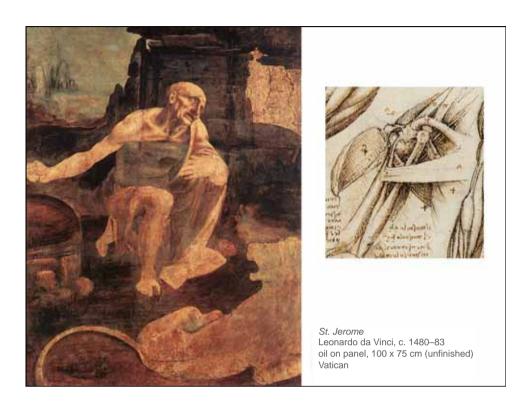
Leonardo da Vinci

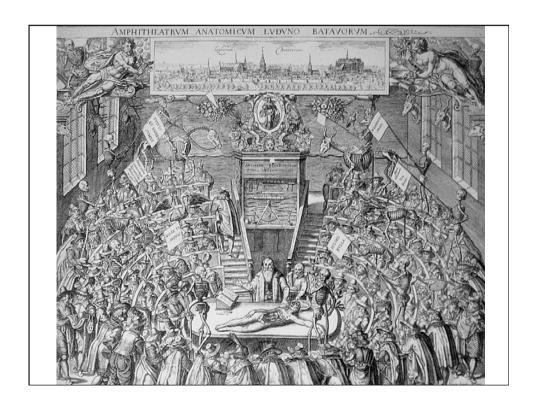
c. 1513, Windsor RL Leoni 19083v



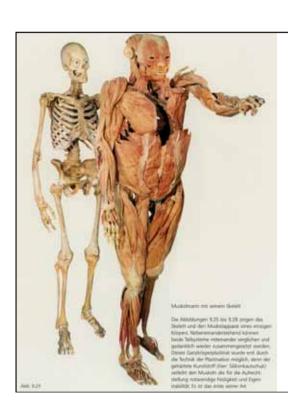












plastination

- technique invented in 1975 by Dr. Gunther von Hagens (Heidelberg)
- now used in many anatomy departments for specimen preparation following dissection
- large specimens that are dry, odourless, and semi-rigid
- international travelling exhibitions for the public

(Körperwelten, 1999) (Body Worlds, 2015)

