

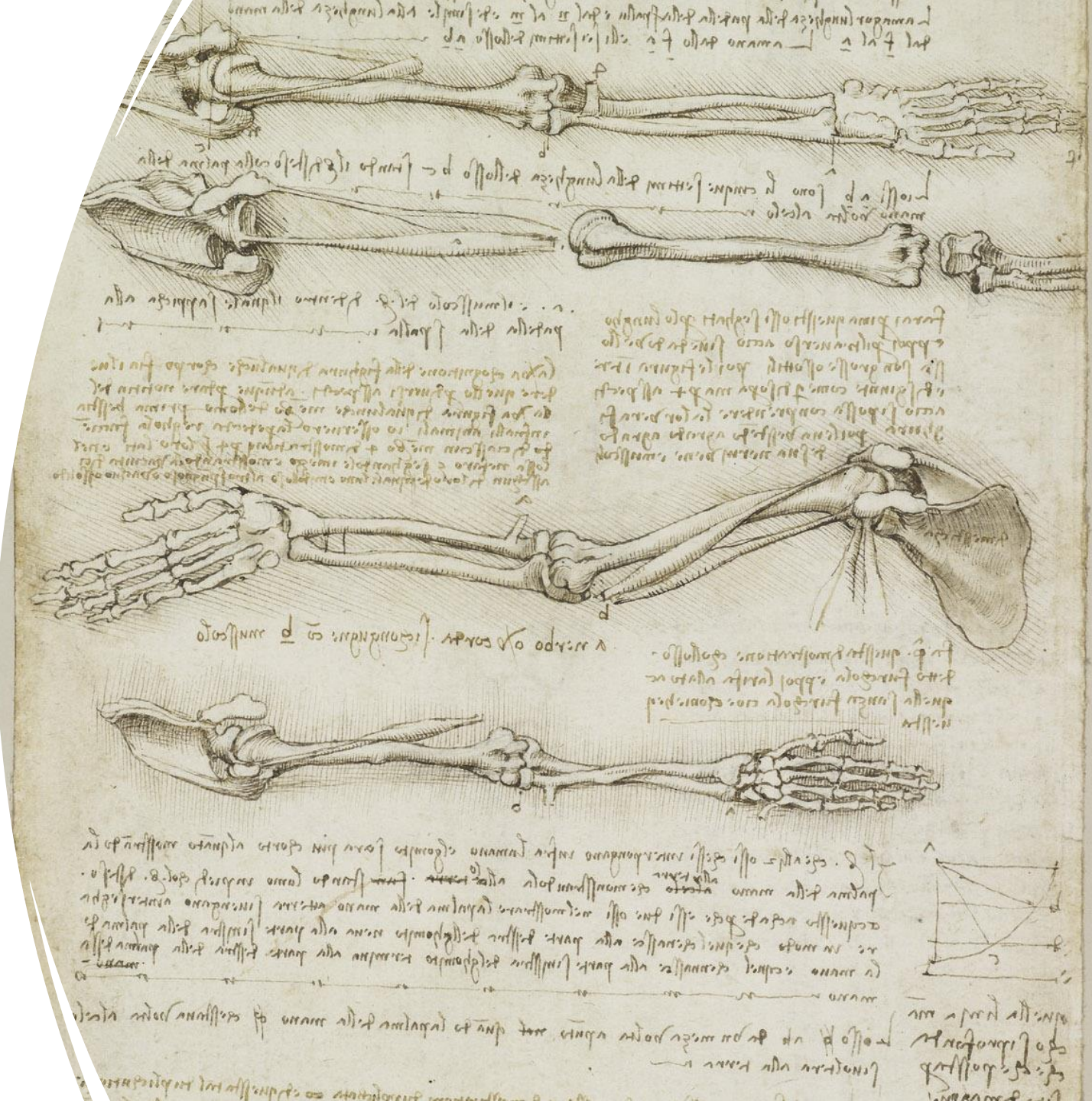
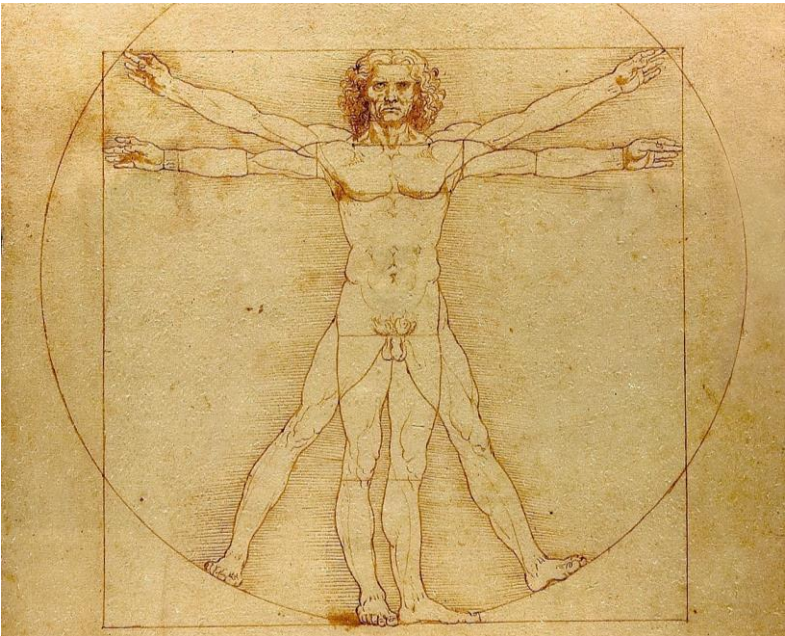
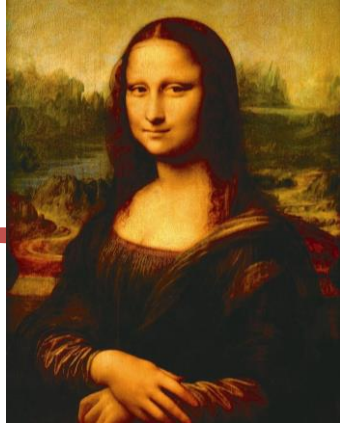
國立成功大學
National Cheng Kung University

從紙本到AI教學演變： 成大醫學教育中解剖學的教學進展

吳佳慶

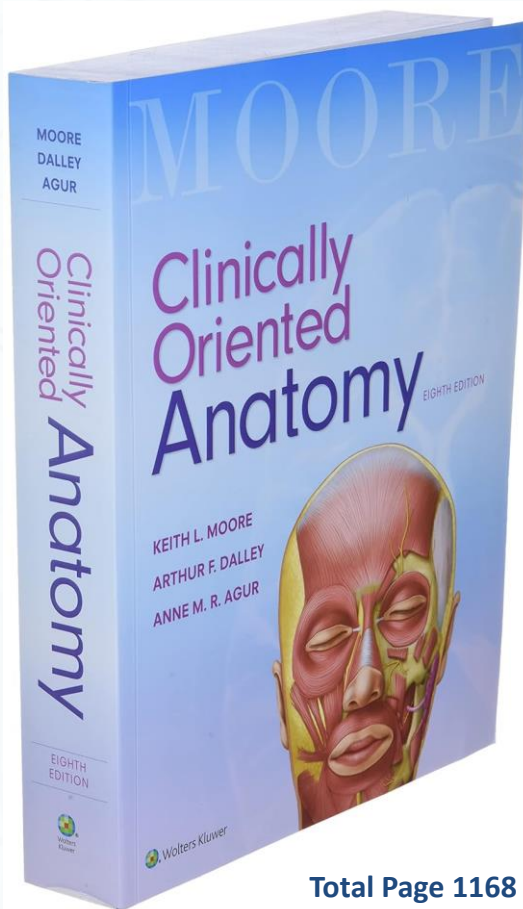
History of Anatomy

- Leonardo da Vinci (1452–1519)





Gluteal Muscles



Total Page 1168

- gluteal mm. share common compartment but organize into 2 layers
- **superficial layer**
 - consists 3 large glutei (maximus, medius, minimus) + tensor fascia latae
 - Proximal: posterolateral (external) surface & margins of ilium ala
 - mainly extensors, abductors

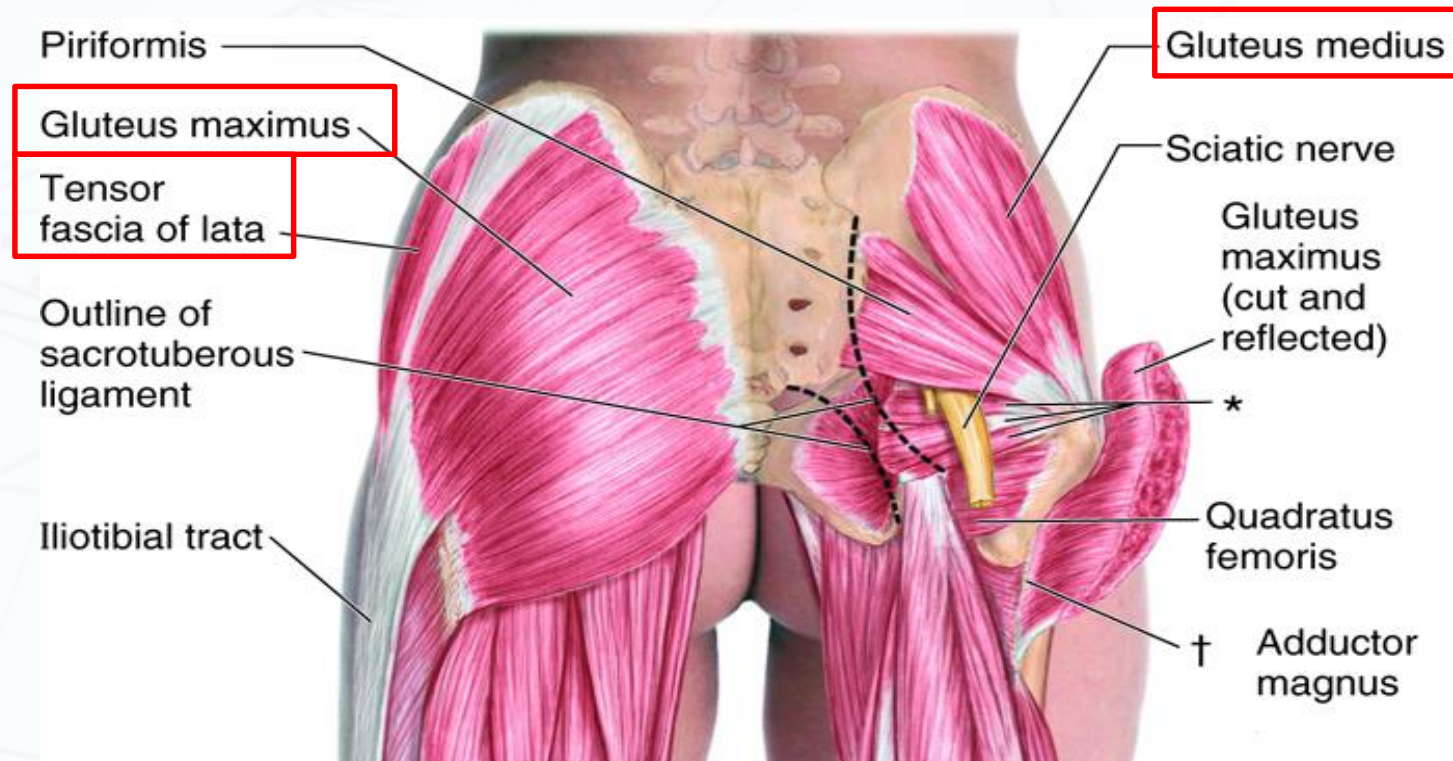


Fig. 5.35 p.565



尖端醫學教育虛擬數位學習廊道

人工智慧虛擬實境教室 (205)

設備包括3D器官解剖教學軟體、取代傳統黑板可用於即時教學或講解的75吋大型螢幕、360度攝影機、電腦設備、VR頭盔，可以頭盔或平板連線做一對八的互動式教學

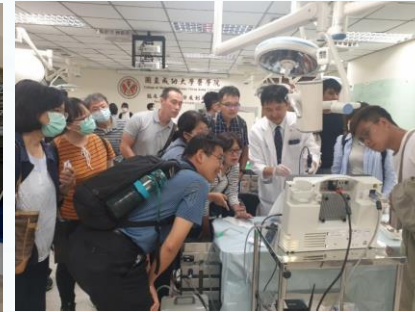


虛擬解剖實驗操作圖書館 (204)

虛擬解剖桌、Complete Anatomy 解剖資料庫、多媒體互動教學螢幕，可直接讀取臨床醫學影像，並直接遠端連線大講堂教學、VR教室、臨床手術技能教室，讓臨床與學生可以隨時Hands On 動手模擬

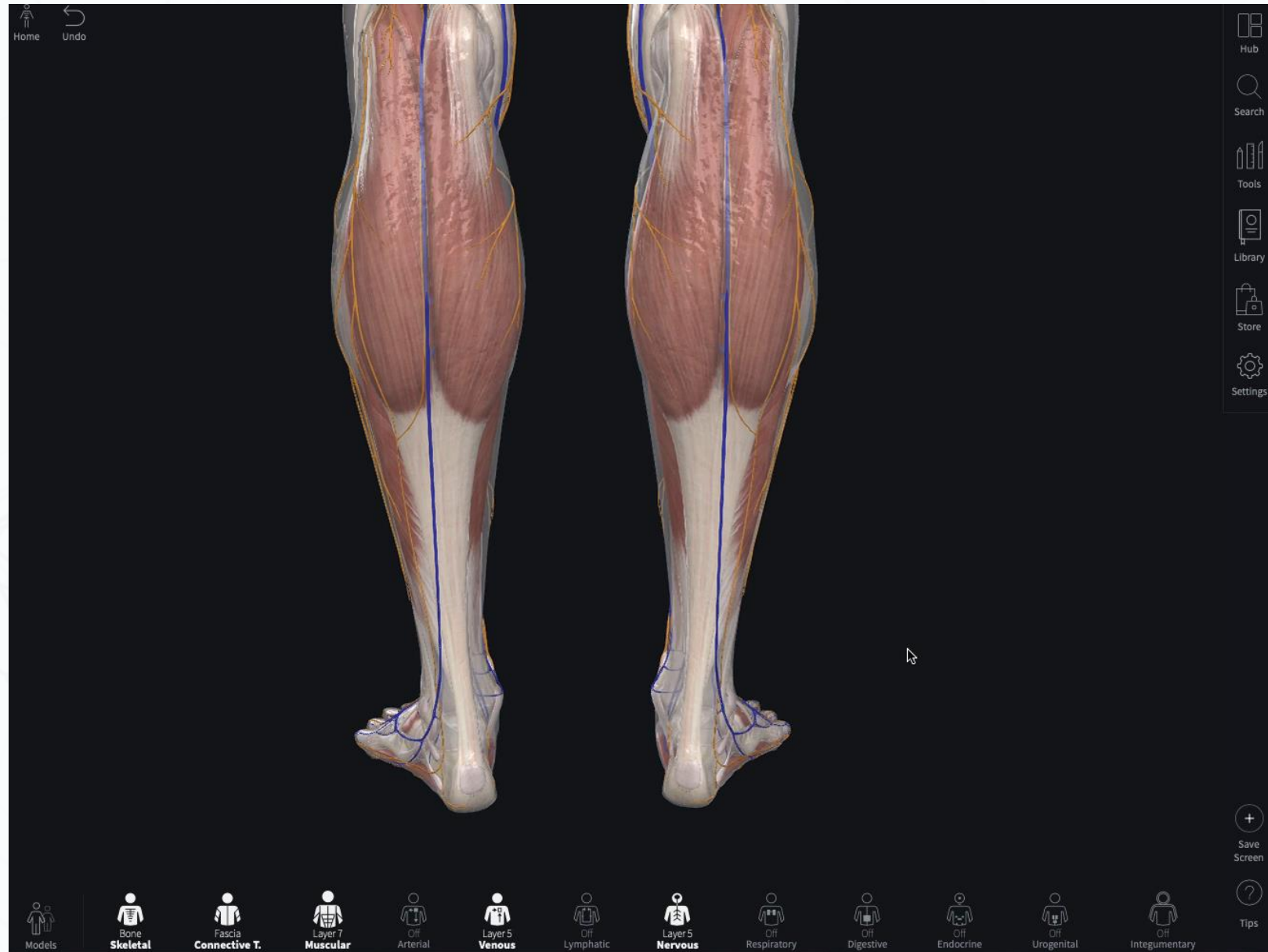
先端手術學程與技能教室學員準備區 (5F)

配置手術房規格配備、影音錄播系統及3D投影設備，並結合STAR學程開設臨床手術技能課程。毗鄰大體解剖實驗室，為全國首創完整結合基礎與臨床之跨領域教學中心，鏈結實體先進手術技能與虛擬解剖數位教學場域，打造多元醫學數位學習廊道





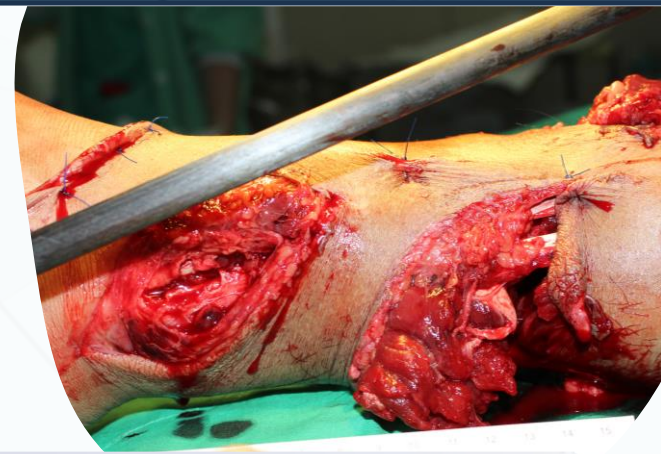
目前3D與智慧學習教學





結合 AI 教學與臨床研發

- 負壓傷口照護系統 (NPWT) Clinical intended use & indications:
 - NPWT is used on complex wounds, such as diabetic foot & difficult-to-heal wounds.
 - It can promote the **growth of granulation tissue, absorb excess exudate, help wound healing, prevent tissue infection, and reduce the probability of amputation.**
 - It significantly improves the recovery speed of difficult-to-heal wounds



Automatic AI Detection & Quantification

- 傷口復原面積自動量化 *Wound segmentation*
- 新生組織自動偵測 *New Tissue segmentation*



Ground truth
Predicted image

