

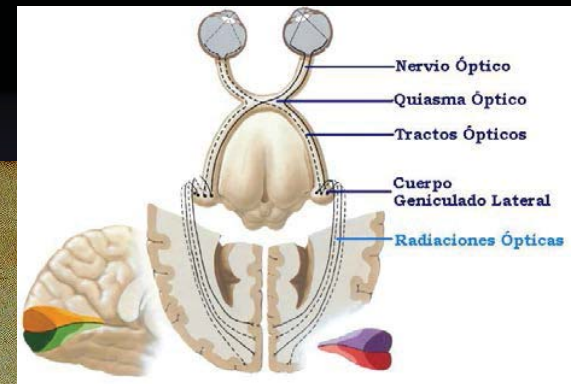
# Leonardo

arte e scienza





L'observació ha portat al llarg de tots els temps als **artistes a fer ciència** mèdica !!



Leonardo da Vinci

1494

# .....o.....altres aportacions

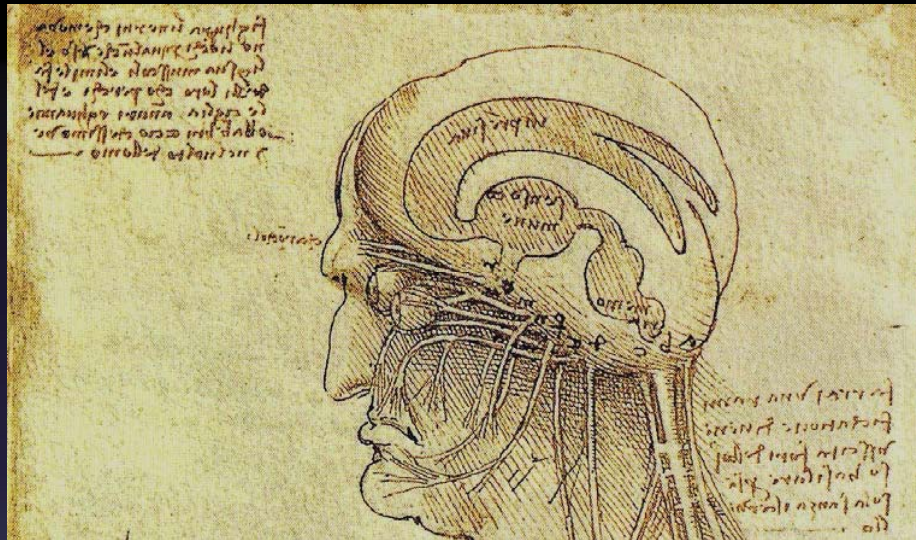


Leonardo  
Esboç de bicicleta  
1490  
Codex Atlanticus,1974

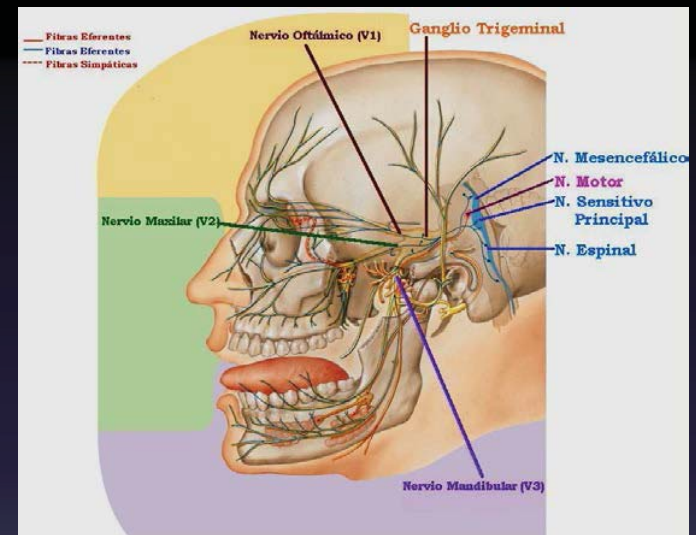




# ....i més ciència



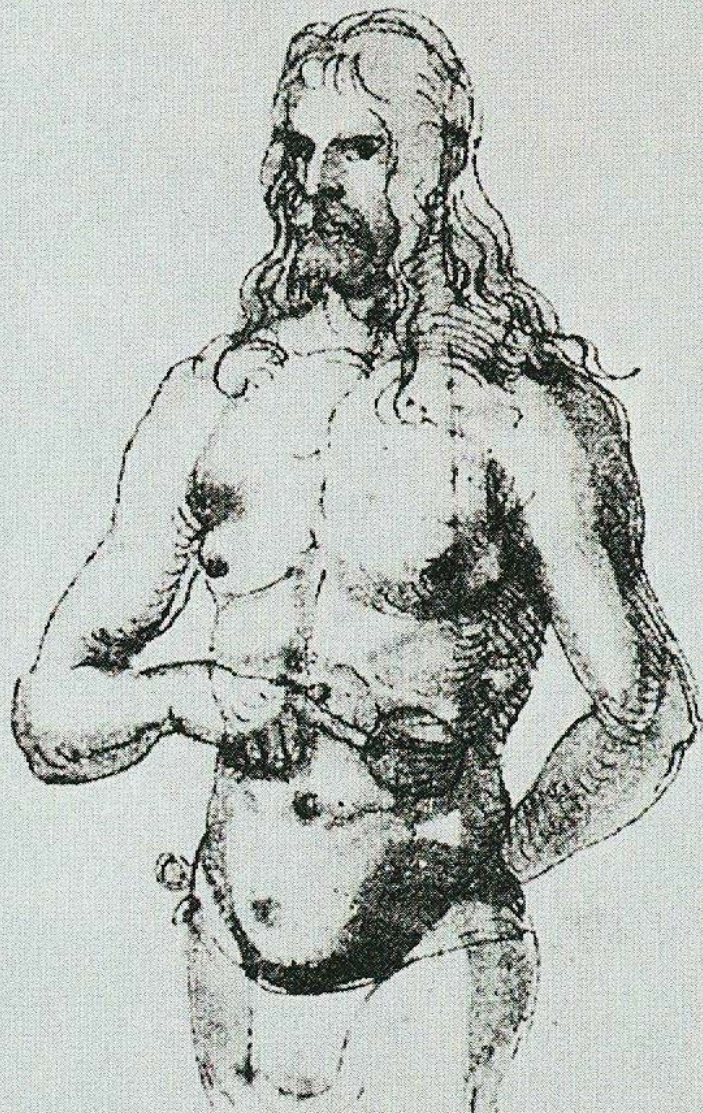
Leonardo da Vinci  
1494



Llibre de text  
2010



Do die zelt fleck ist bald mit dem  
finger seufft vider do ist hinc her



"Tinc un bony aquí i em fa mal.  
Què tinc?"

A. Dürer  
Dibuix al seu metge

1498





Jaume Huguet  
Retrat dels Sants Nin i Non  
Retaule gòtic català. 1459

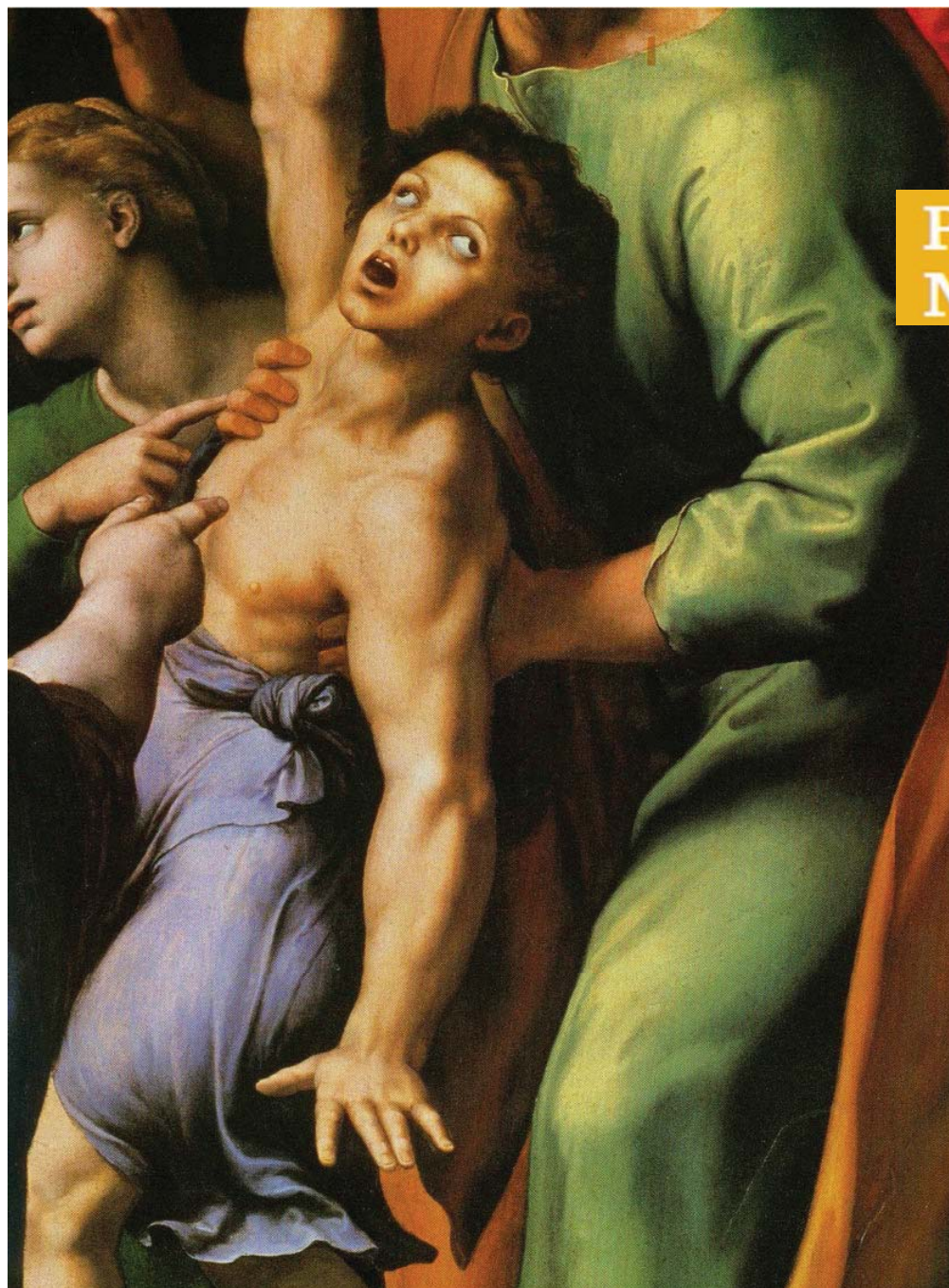




....1700 a. del 1r trasplantament !

Fernando del Rincón . S.XV  
Miracle dels Sants Cosme  
i Damià





PASSEJANT PEL  
NOSTRE CERVELL

Neurologia i Art

26-09-2013

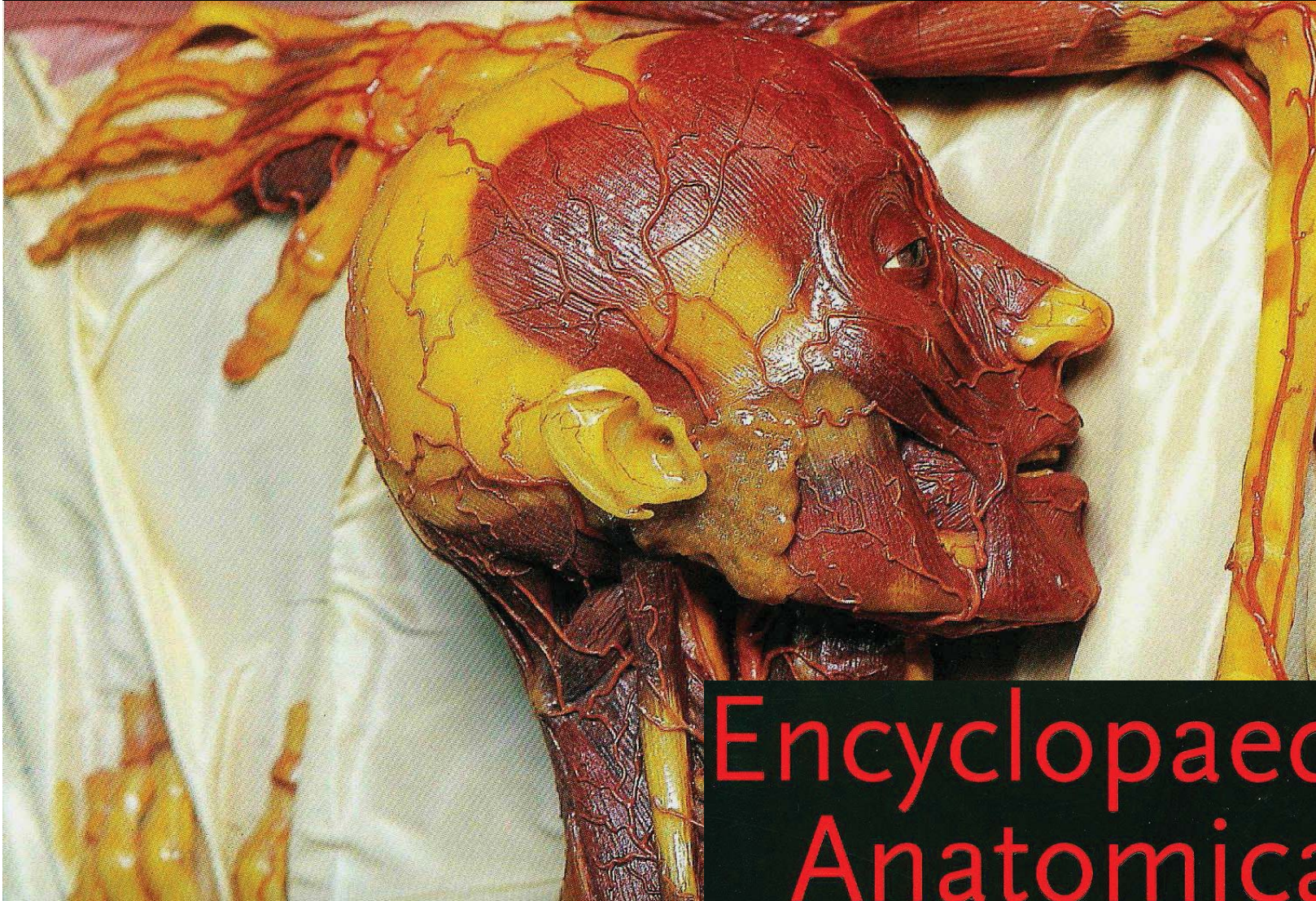


## ...volem respondre preguntes !

- Quines són les **estructures** neurològiques que hi participen ?
- **Com** el cervell humà **percep e interpreta** els estímuls sensorials que rep ?
- **Quins** són els **processos** mentals i culturals que hi participen ?



...comencem a responder perguntas !

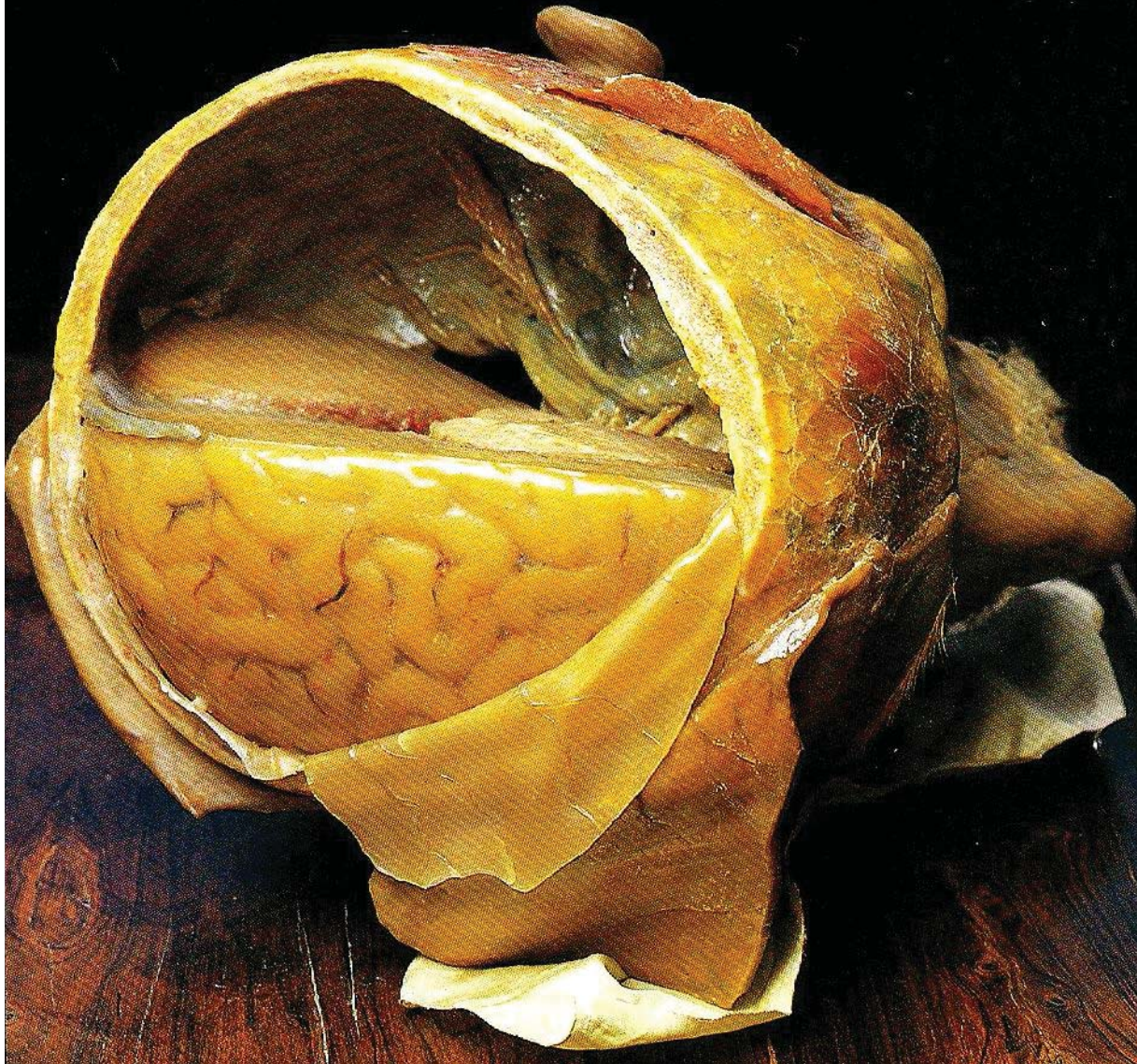


# Encyclopaedia Anatomica

Museo La Specola Florence



...i l' encèfal (cervell) es troba dins del crani



Museu La Specola  
Florència  
S. XVII



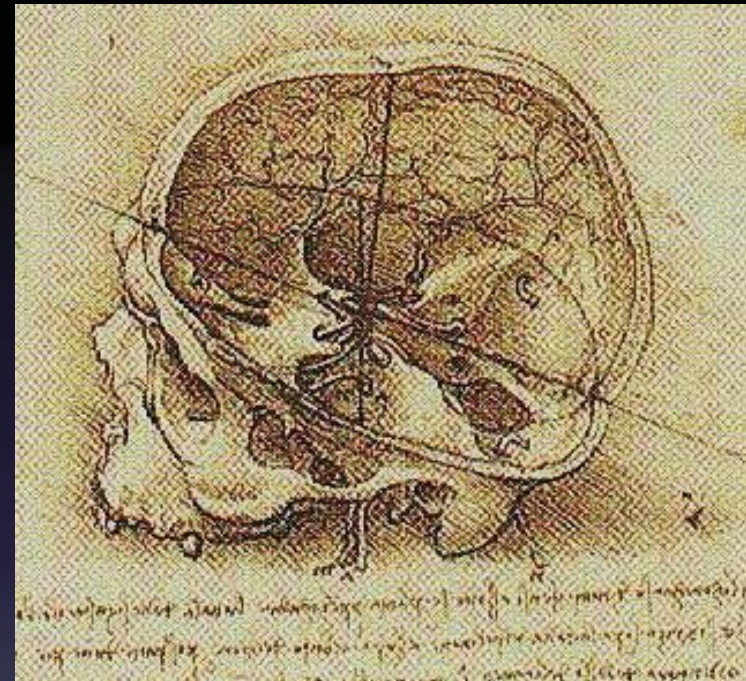
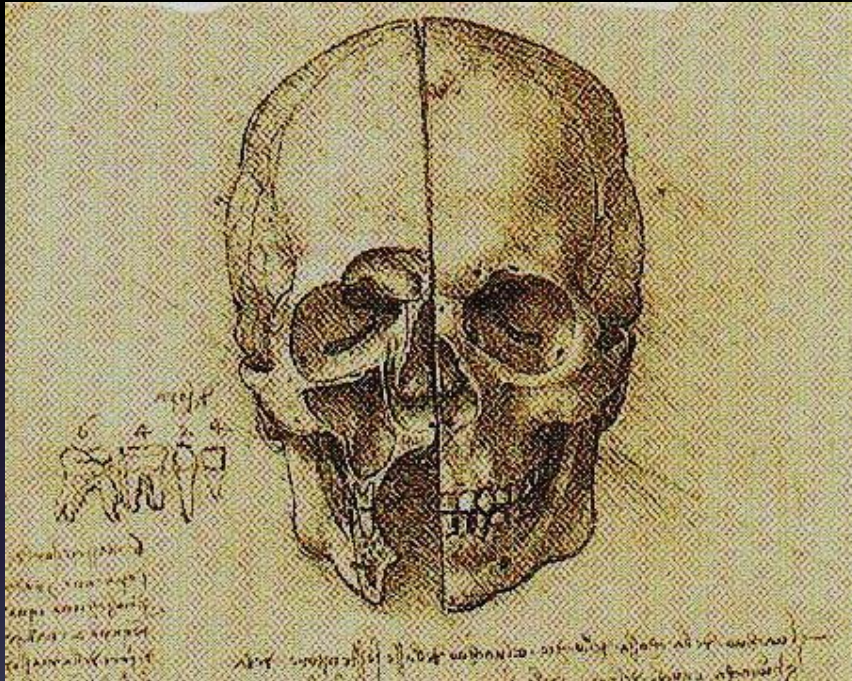
...i el crani com un signe de la intrascendència humana



A. Dürer  
Sant Jeroni a la seva cel·la  
Oli, 1521

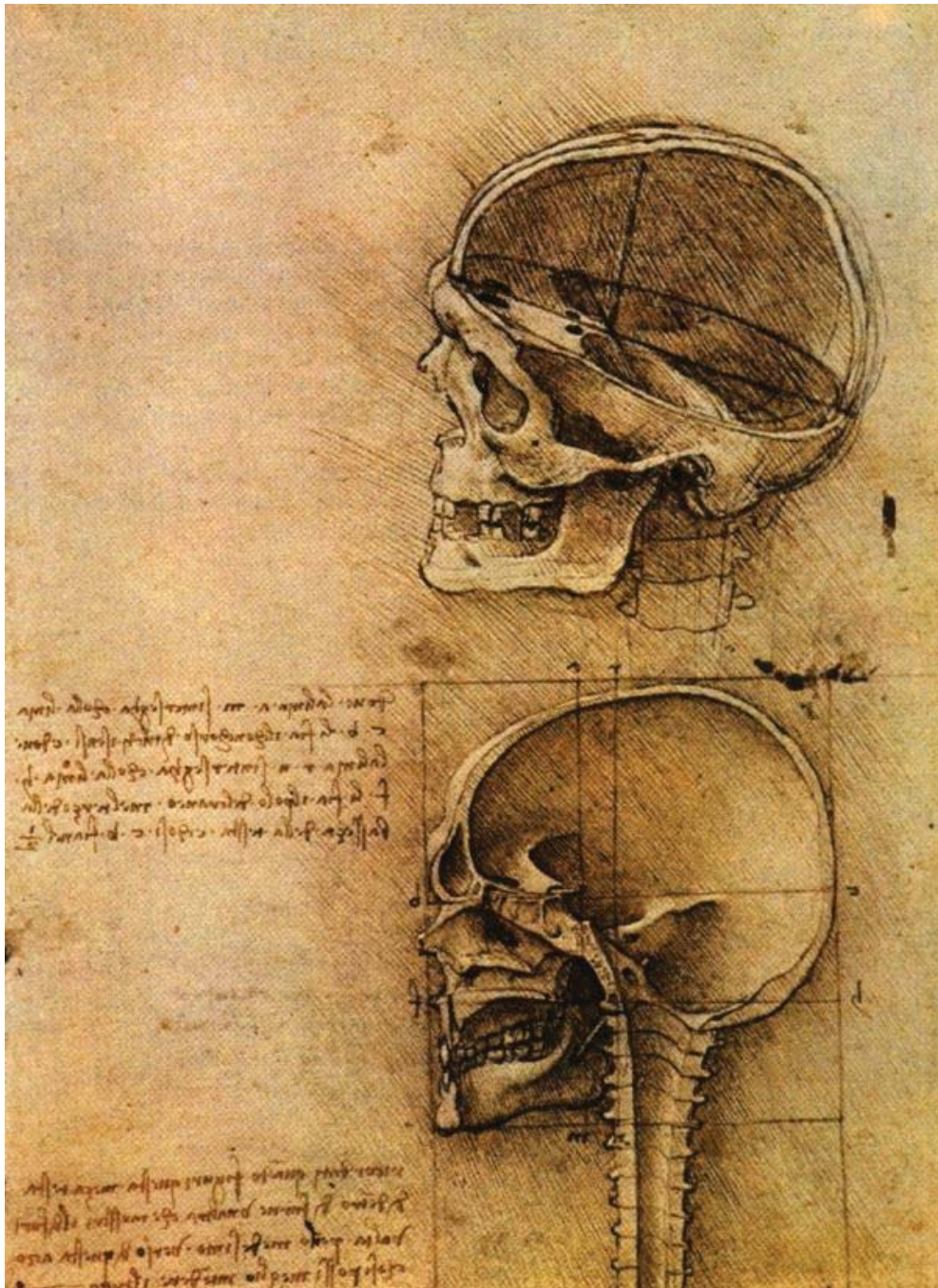


# continent.....CRANI



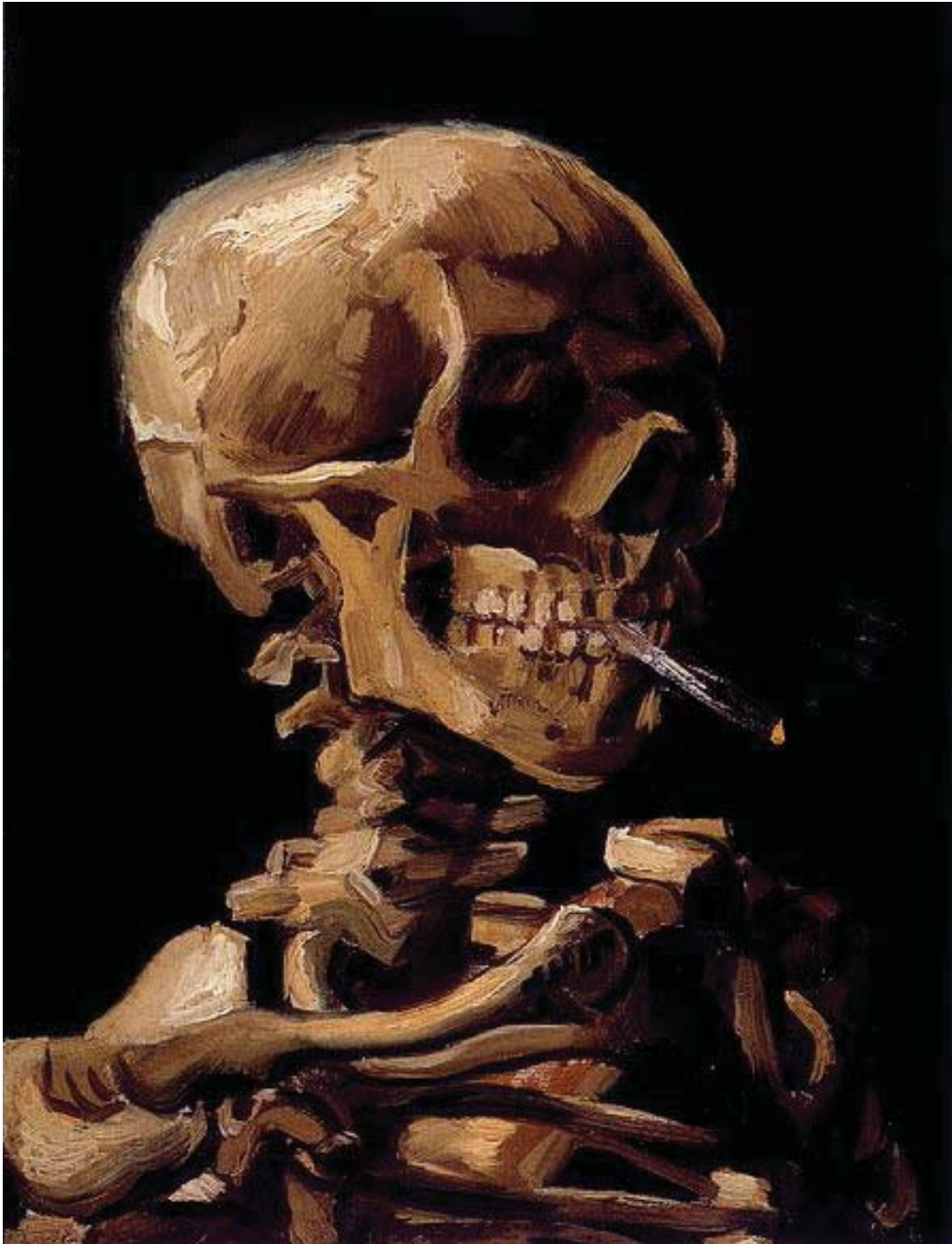
Leonardo  
Crani i el seu contingut  
1487-1493



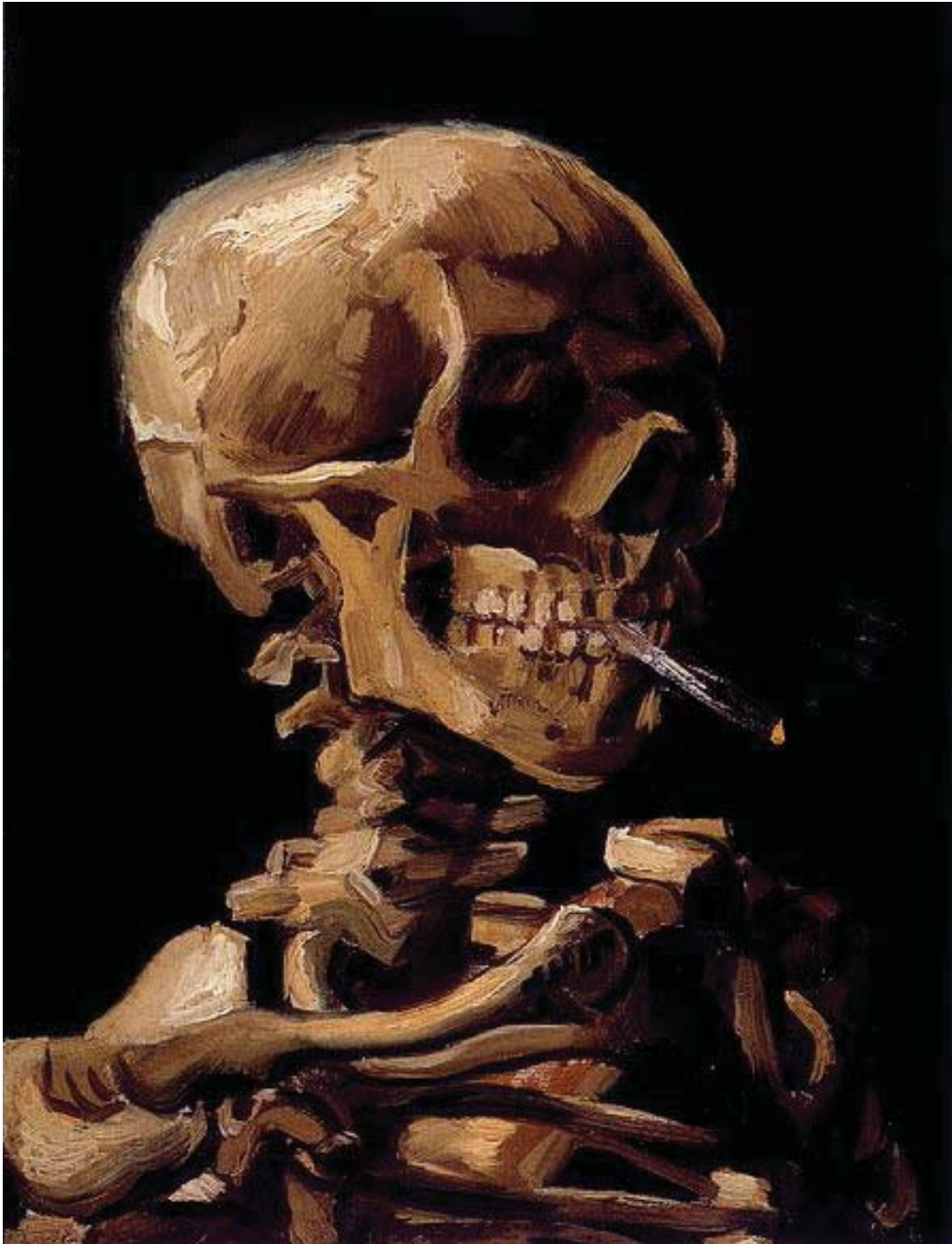


Leonardo  
Crani i el seu contingut  
1487-1493





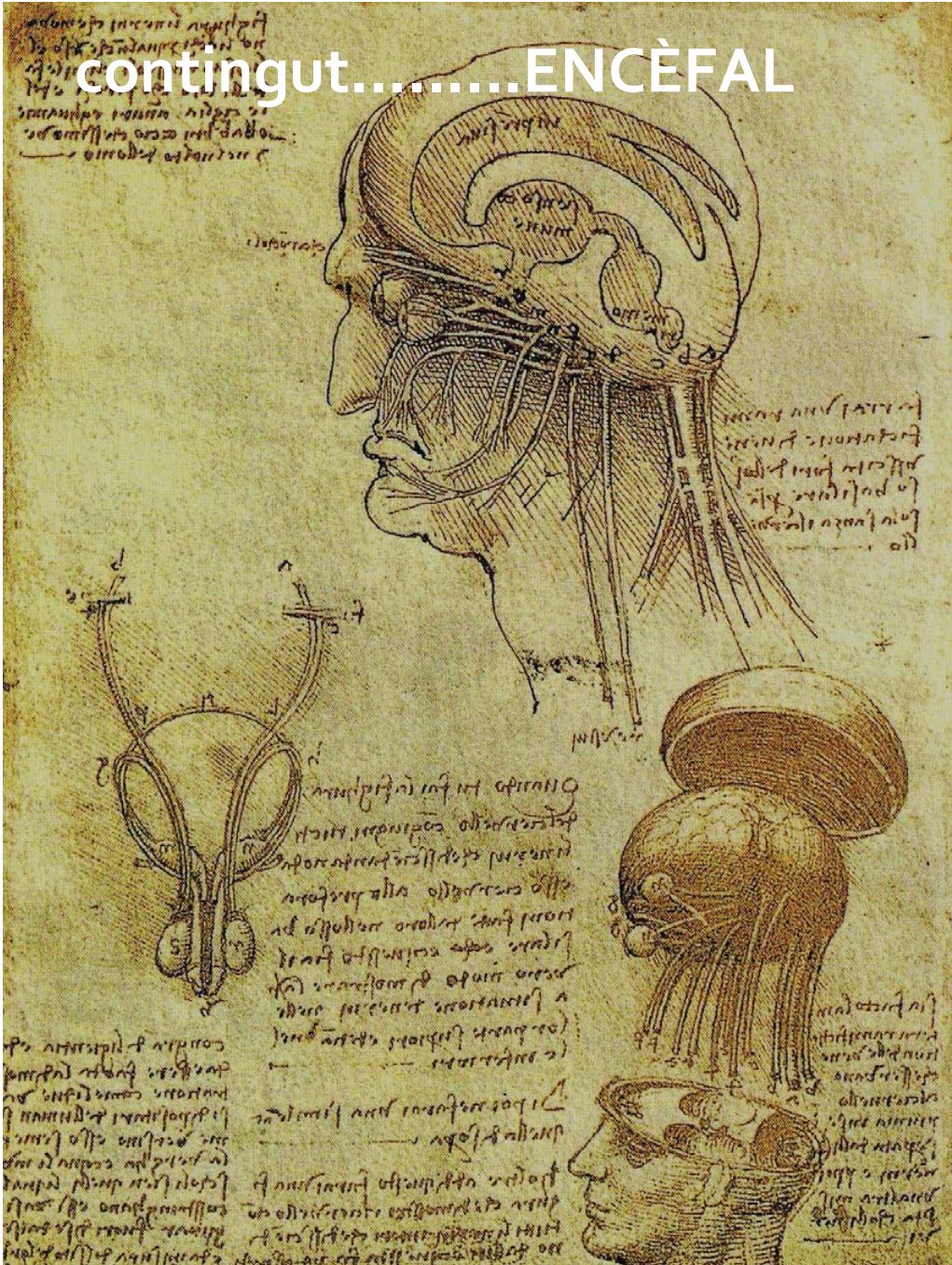




Van Gogh (1853-1890)  
Crani fumant un cigarret  
1885

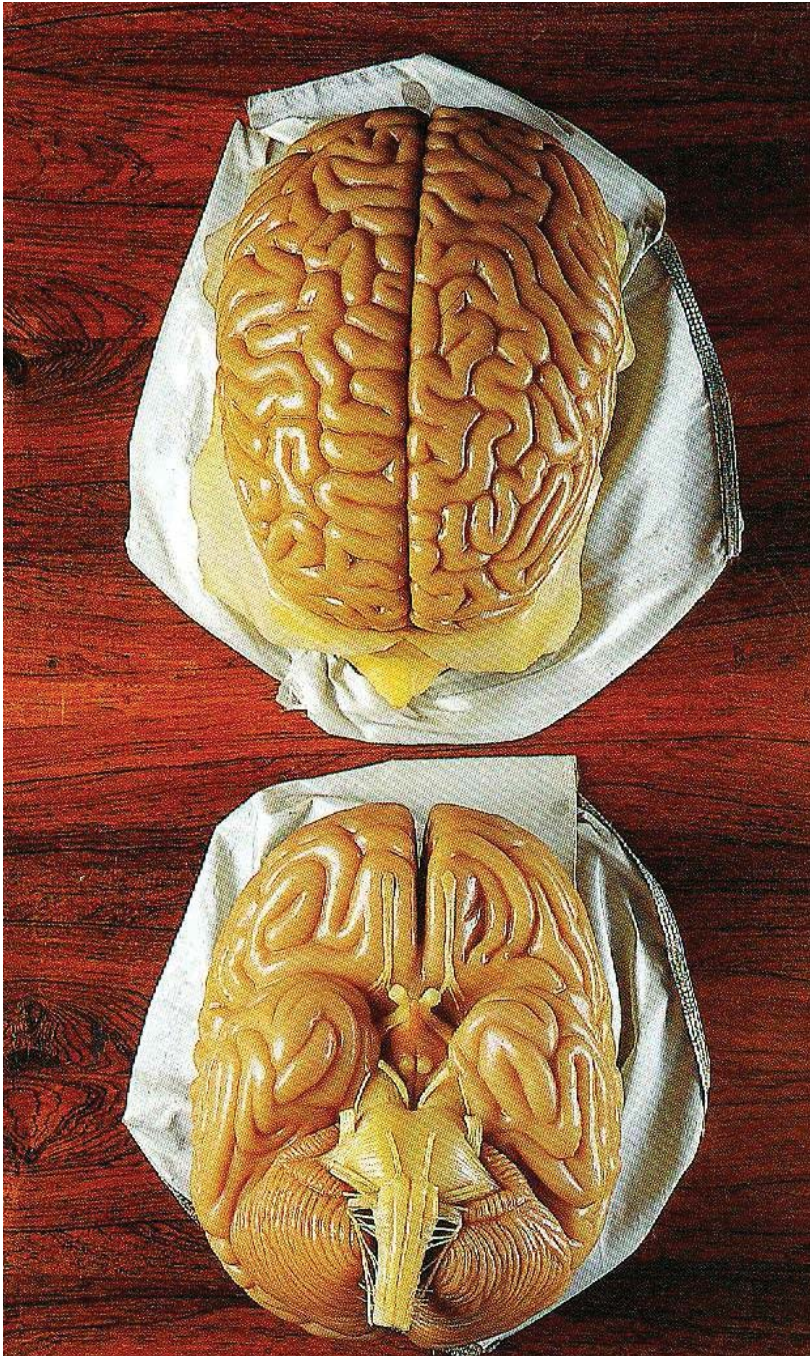


contingut.....ENCÈFAL



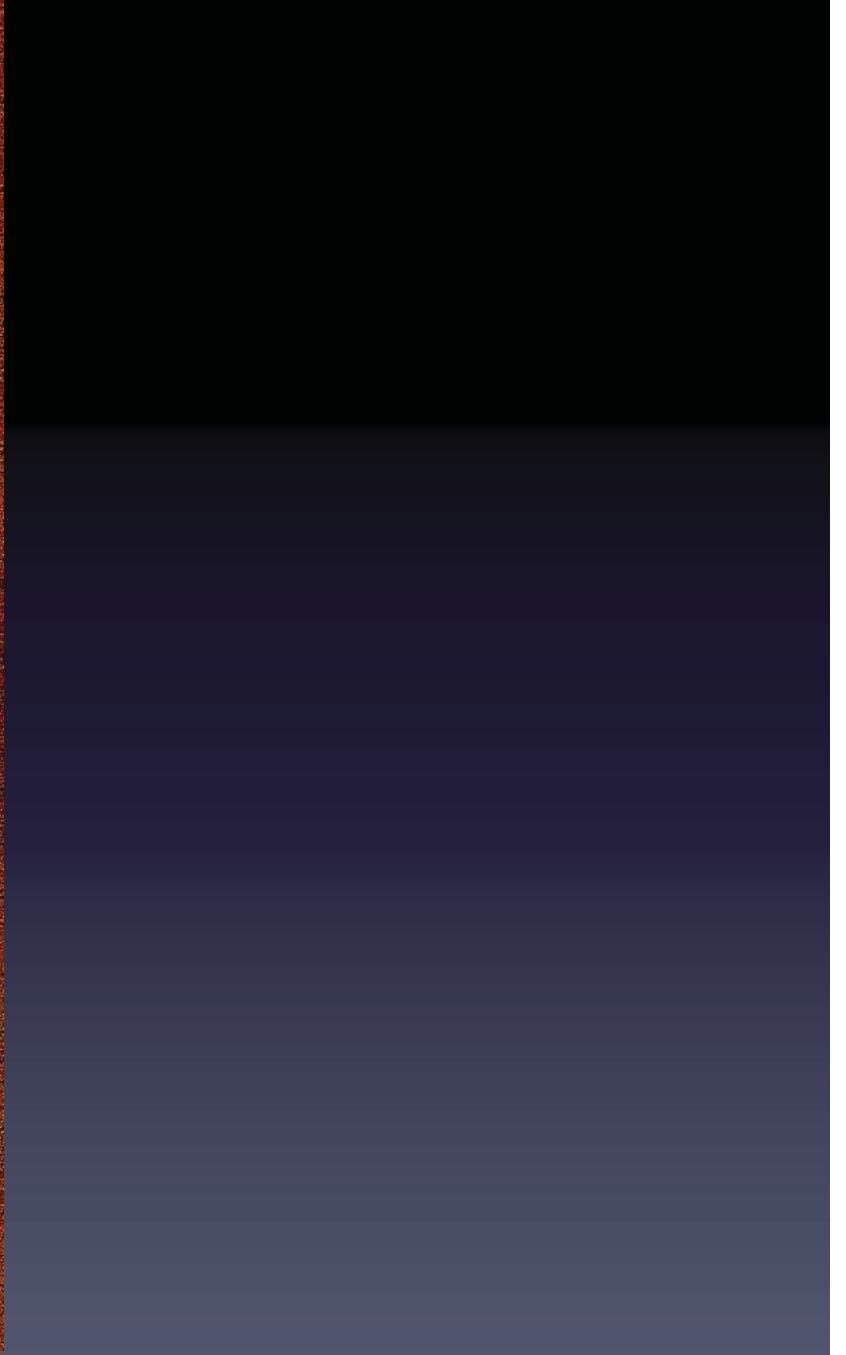
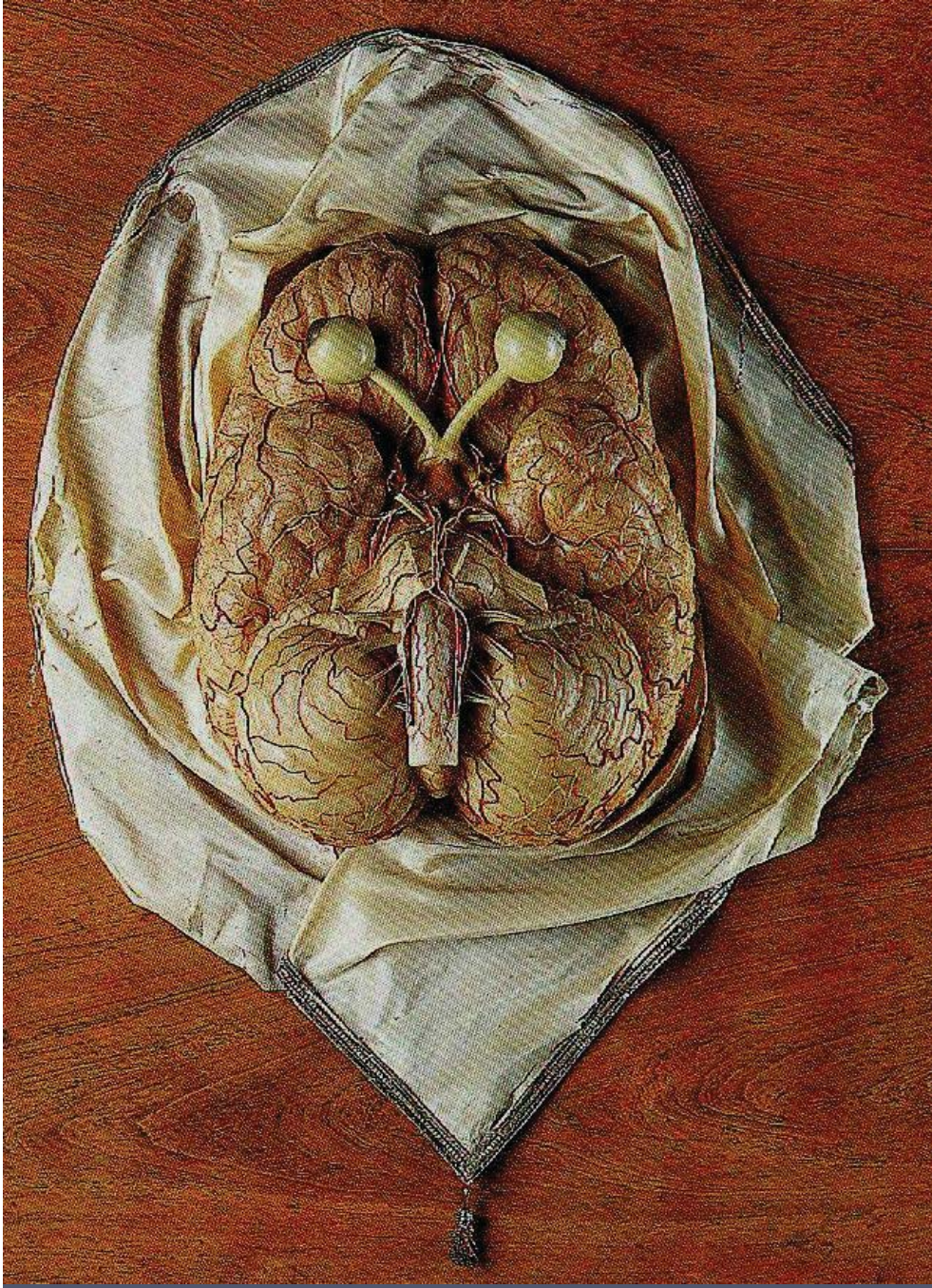
Leonardo  
Crani i el seu contingut  
1487-1493



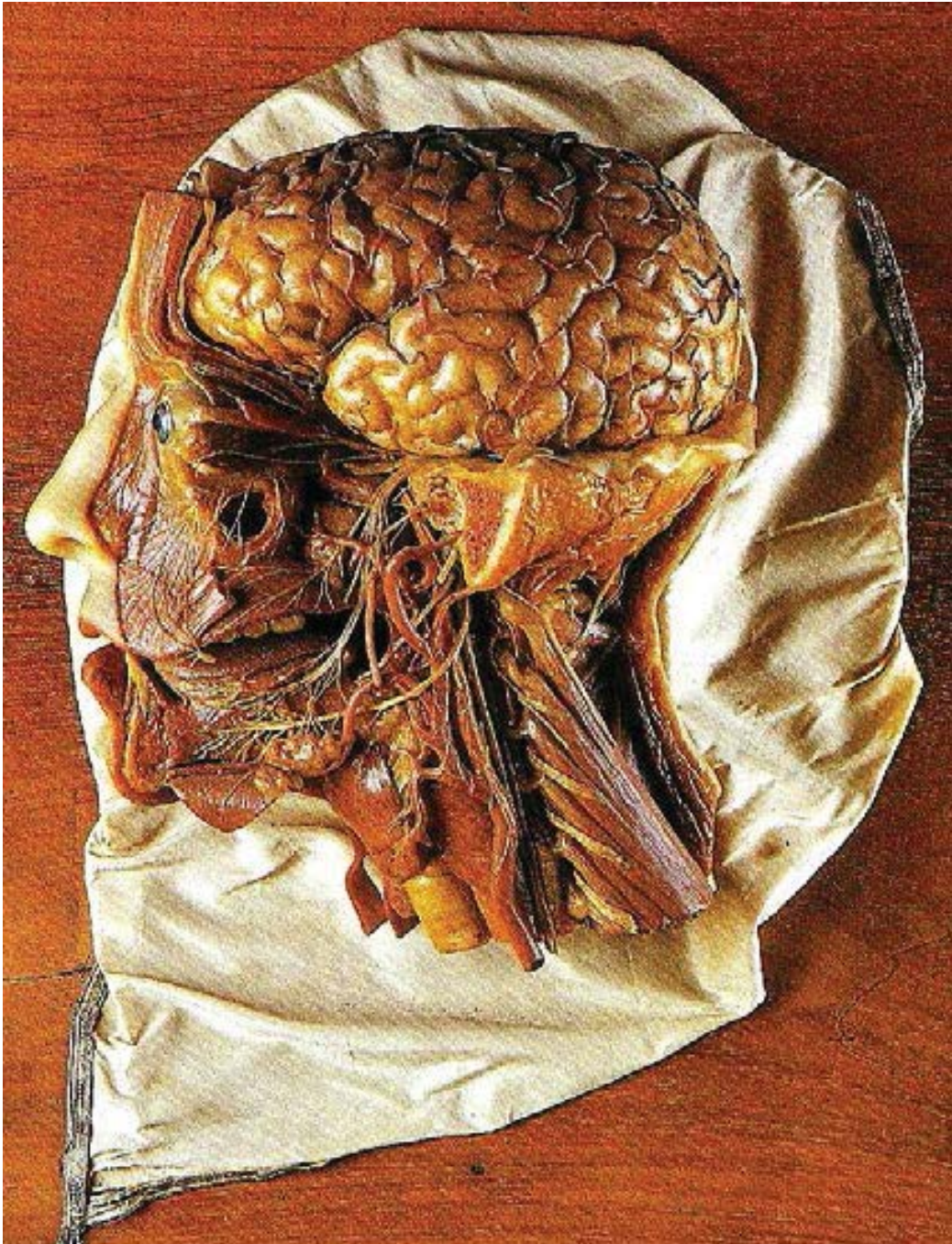


Museu La Specola  
Florència  
S. XVII





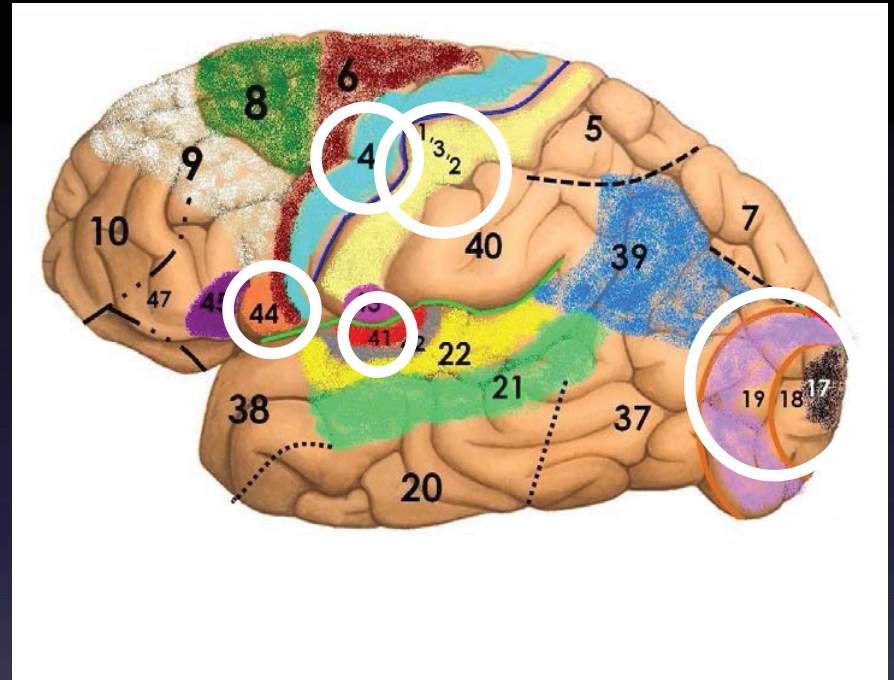
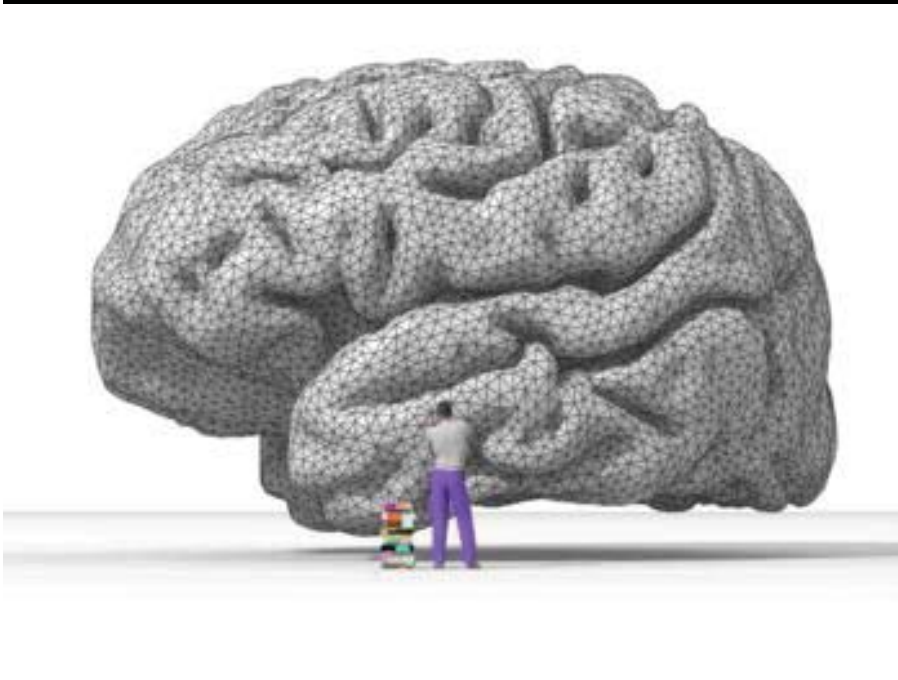




Museu La Specola  
Florència  
S. XVII



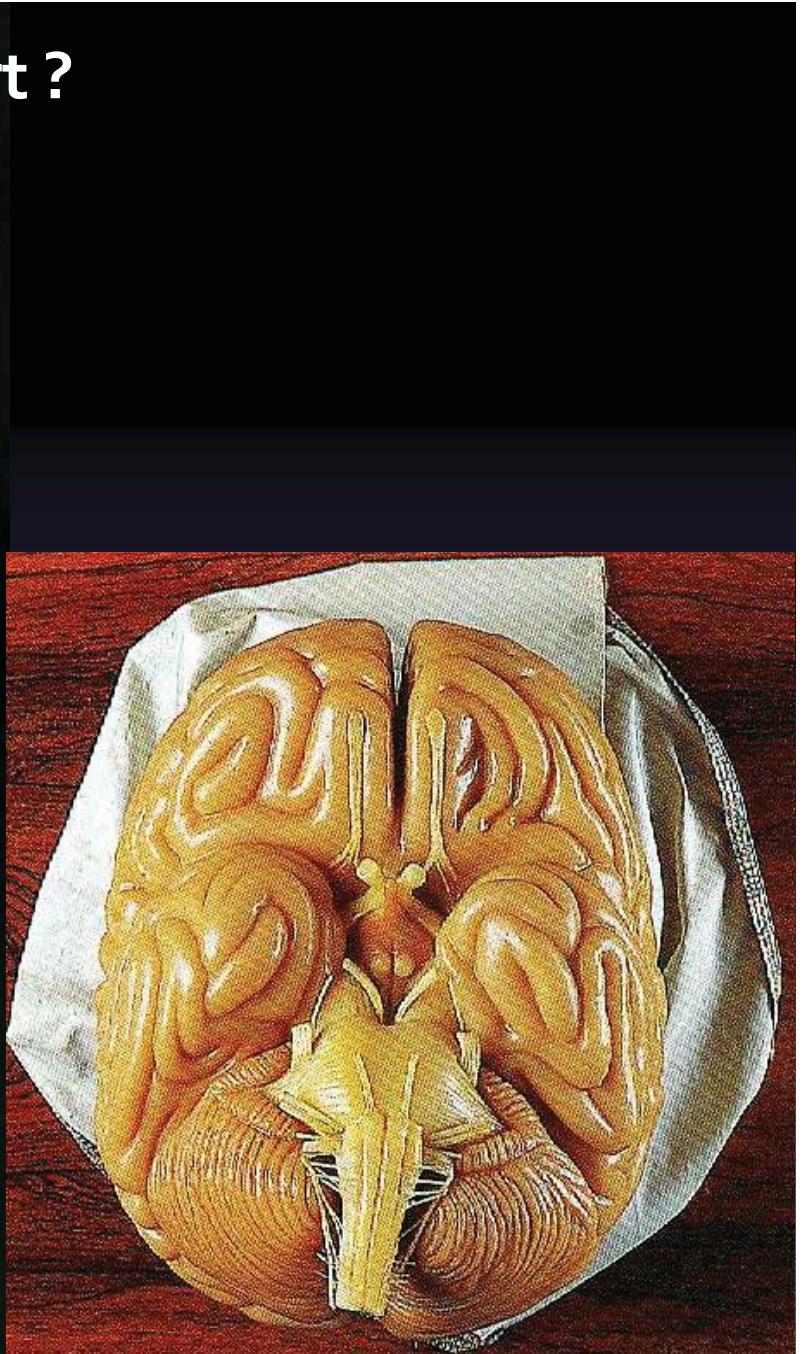
.....tot el cervell té les mateixes funcions ?



....en podem estudiar les particularitats d'algunes parts ?

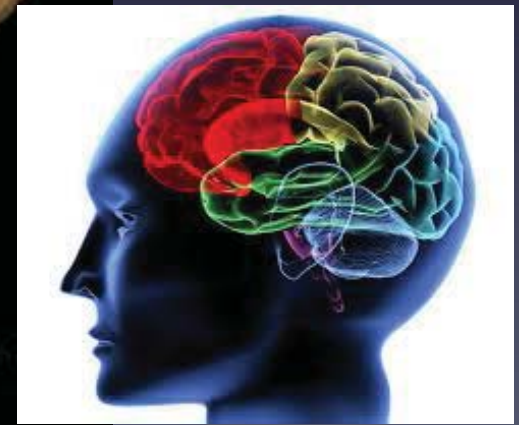
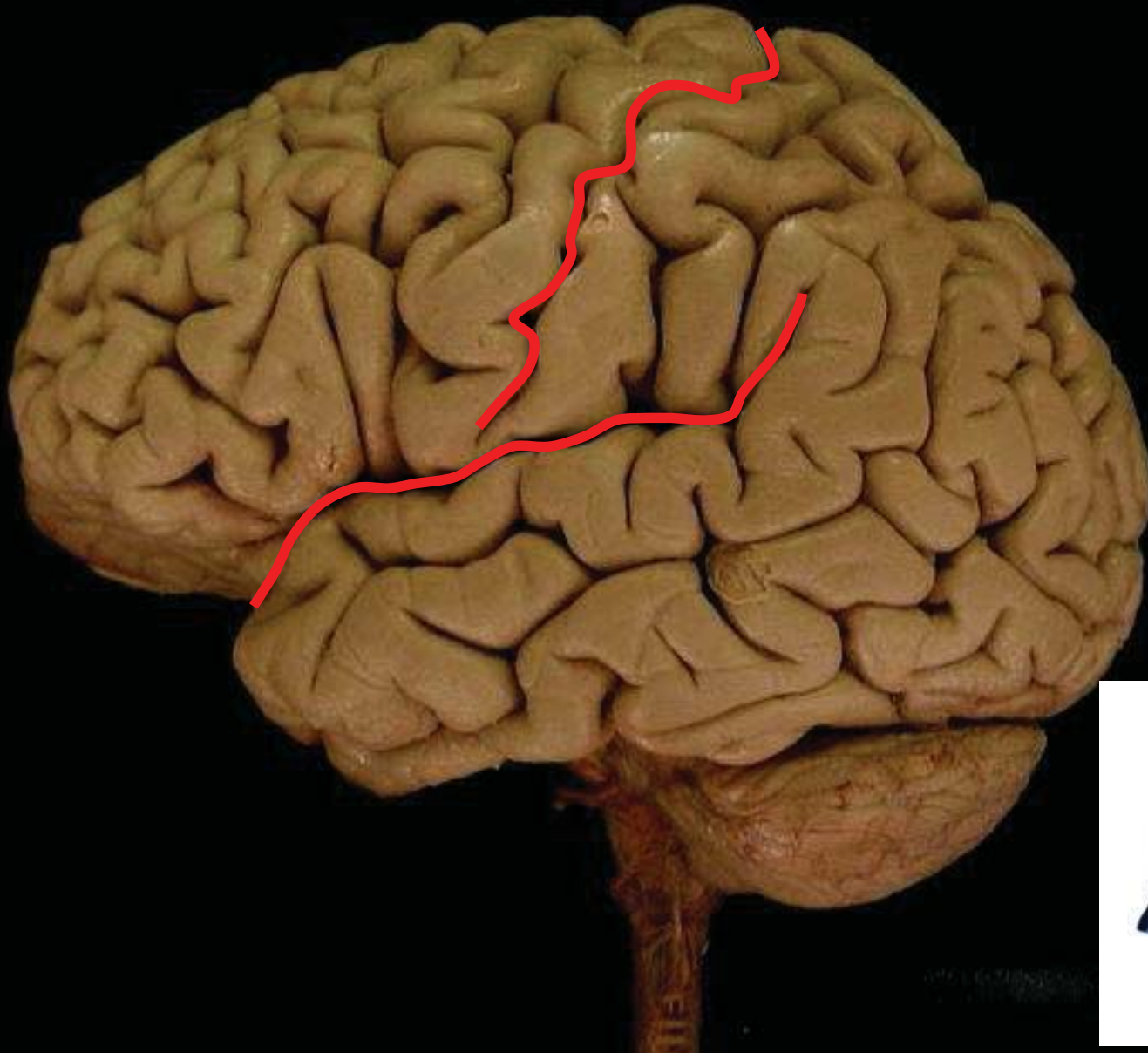


.....paral-lelisme realitat-art ?



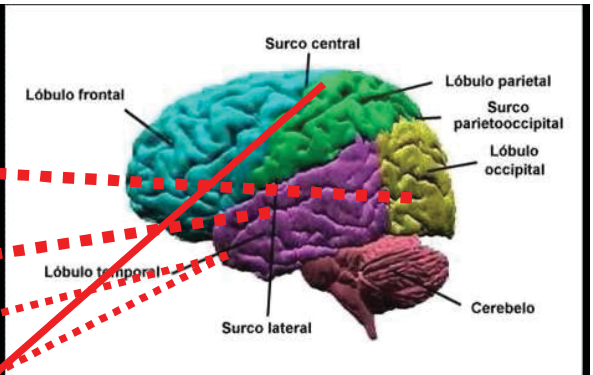
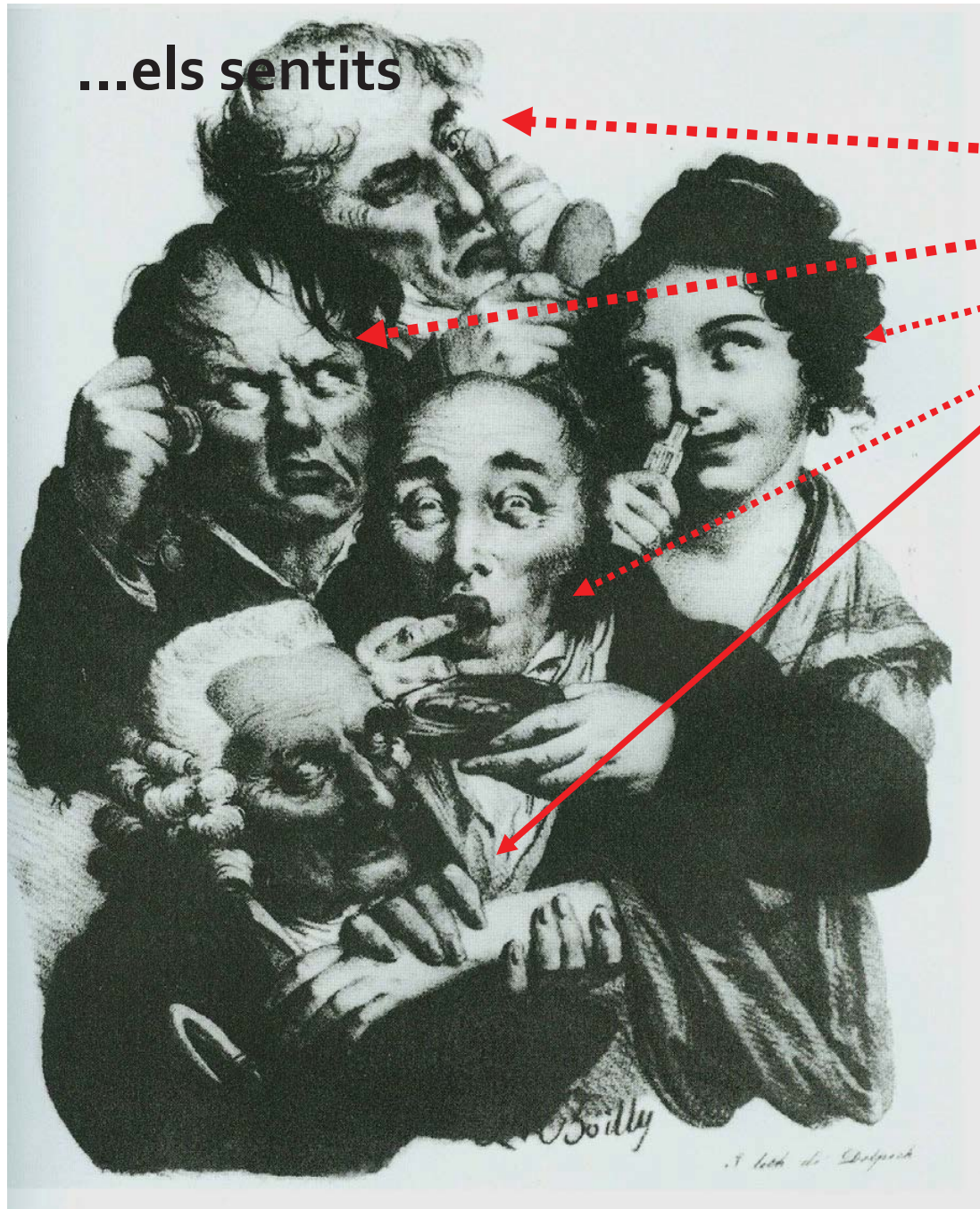


# HEMISFERIS CEREBRALS-CÒRTEX





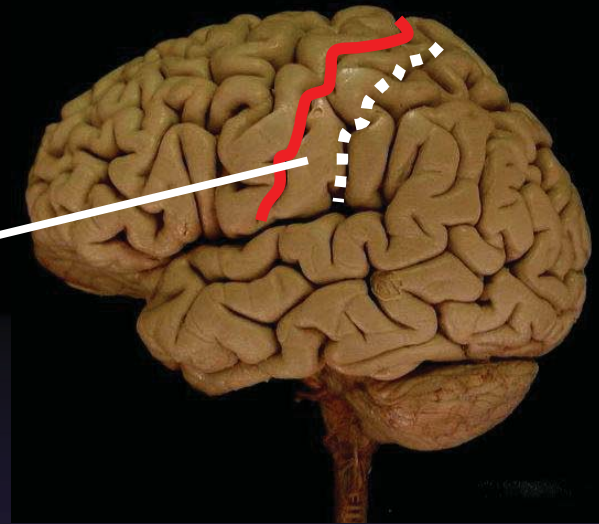
...els sentits



Louis-Léopold Boilly  
"Els cinc sentits"  
Litografia 1823



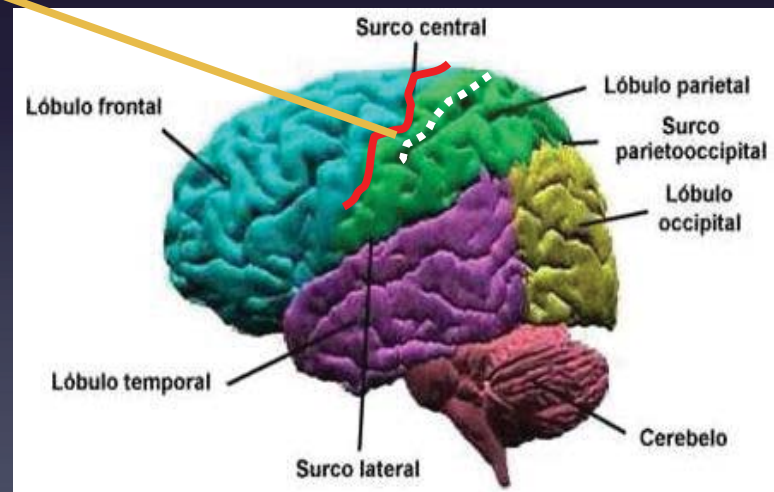
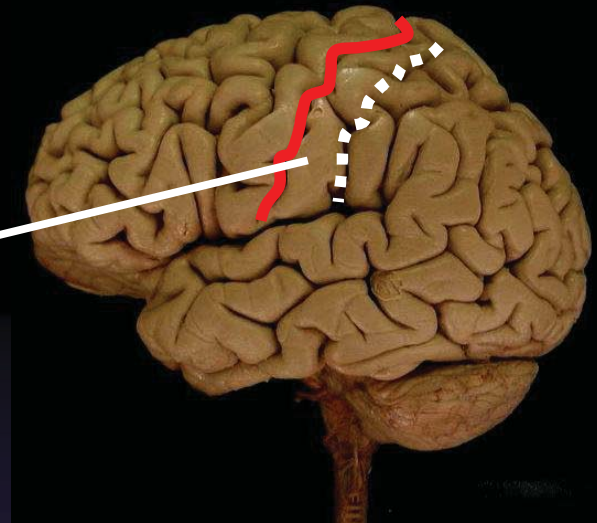
...el tacte



Josep Ribera  
El tacte  
Oli, 1613



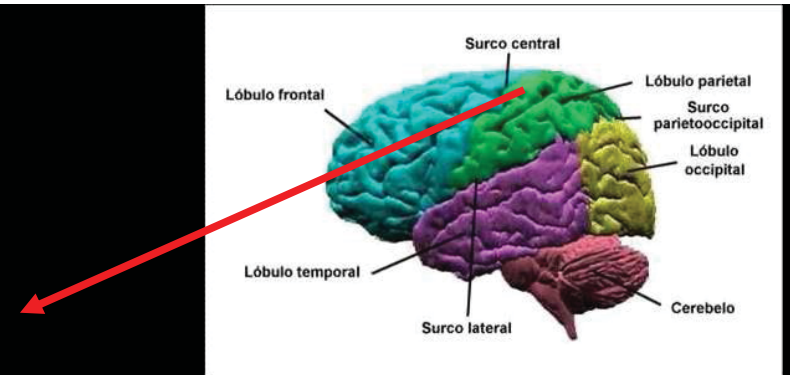
# ...el tacte



Joseppe Ribera  
El tacte  
Oli, 1613



...el dolor

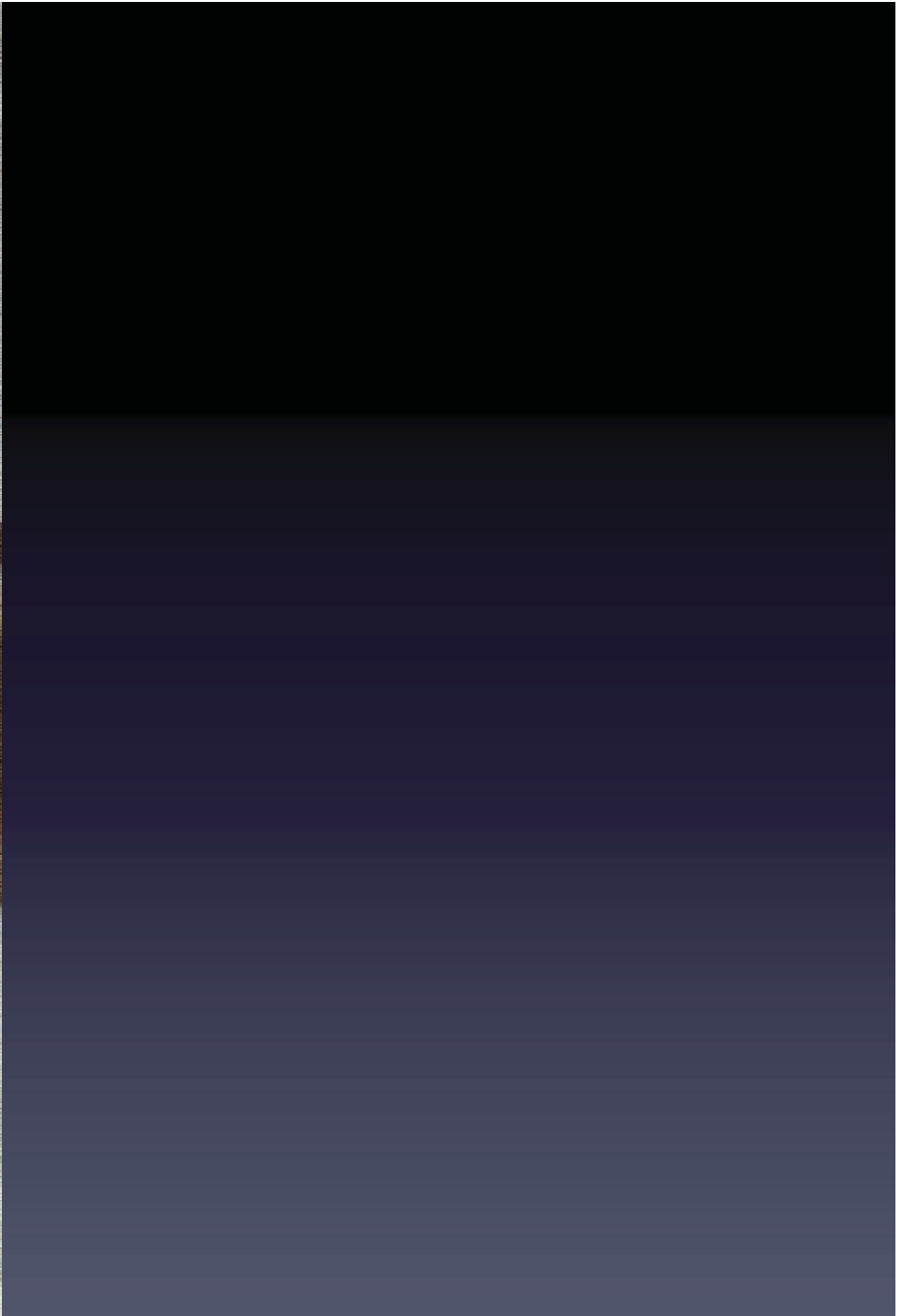
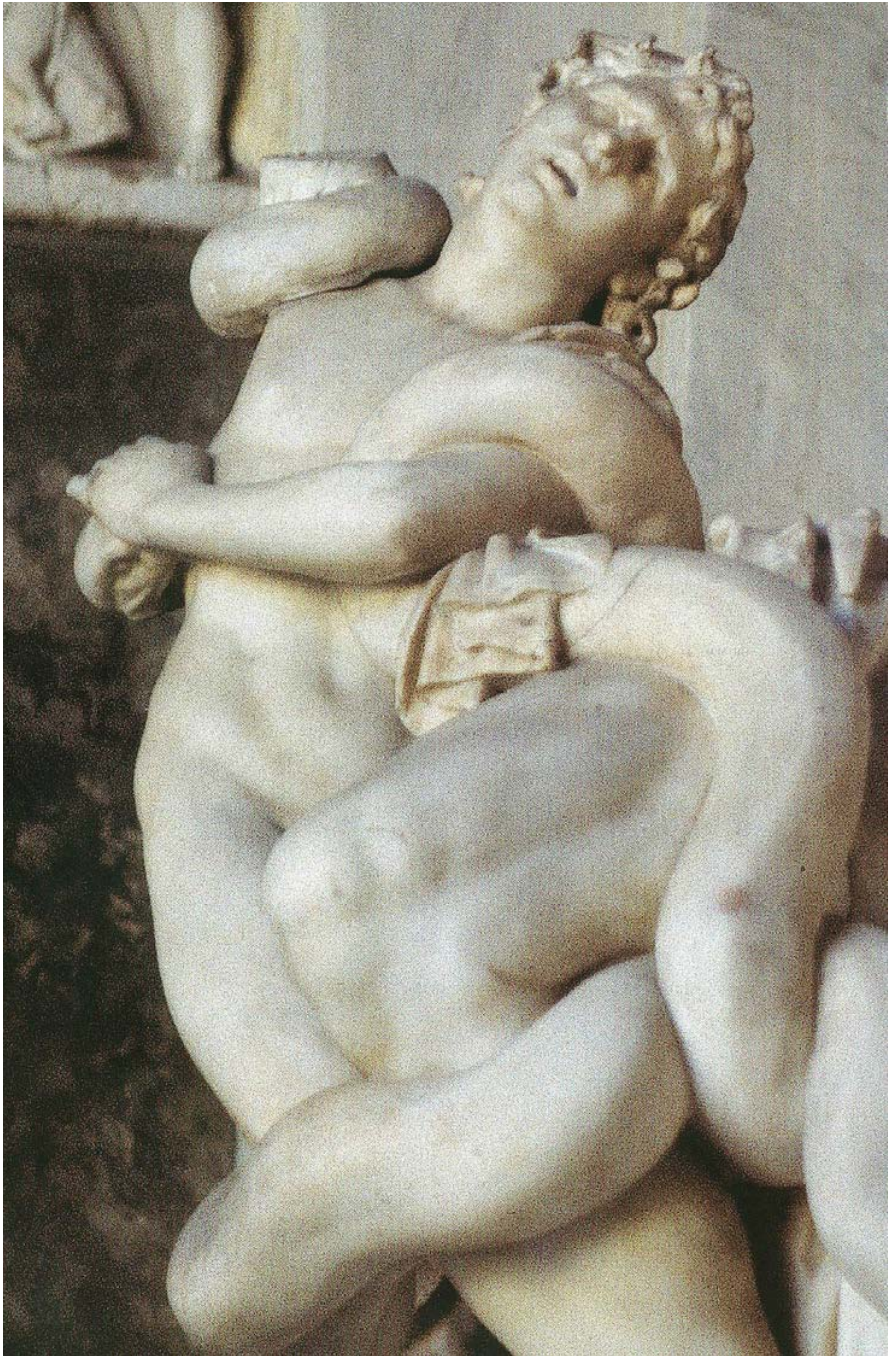


Anònim grec  
Laocoonte i els seus fills  
Marbre Segle I a.C.



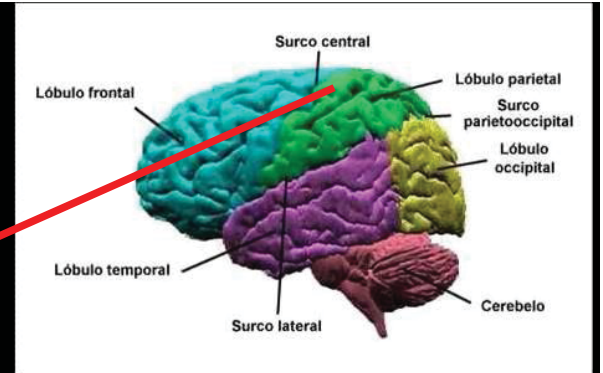
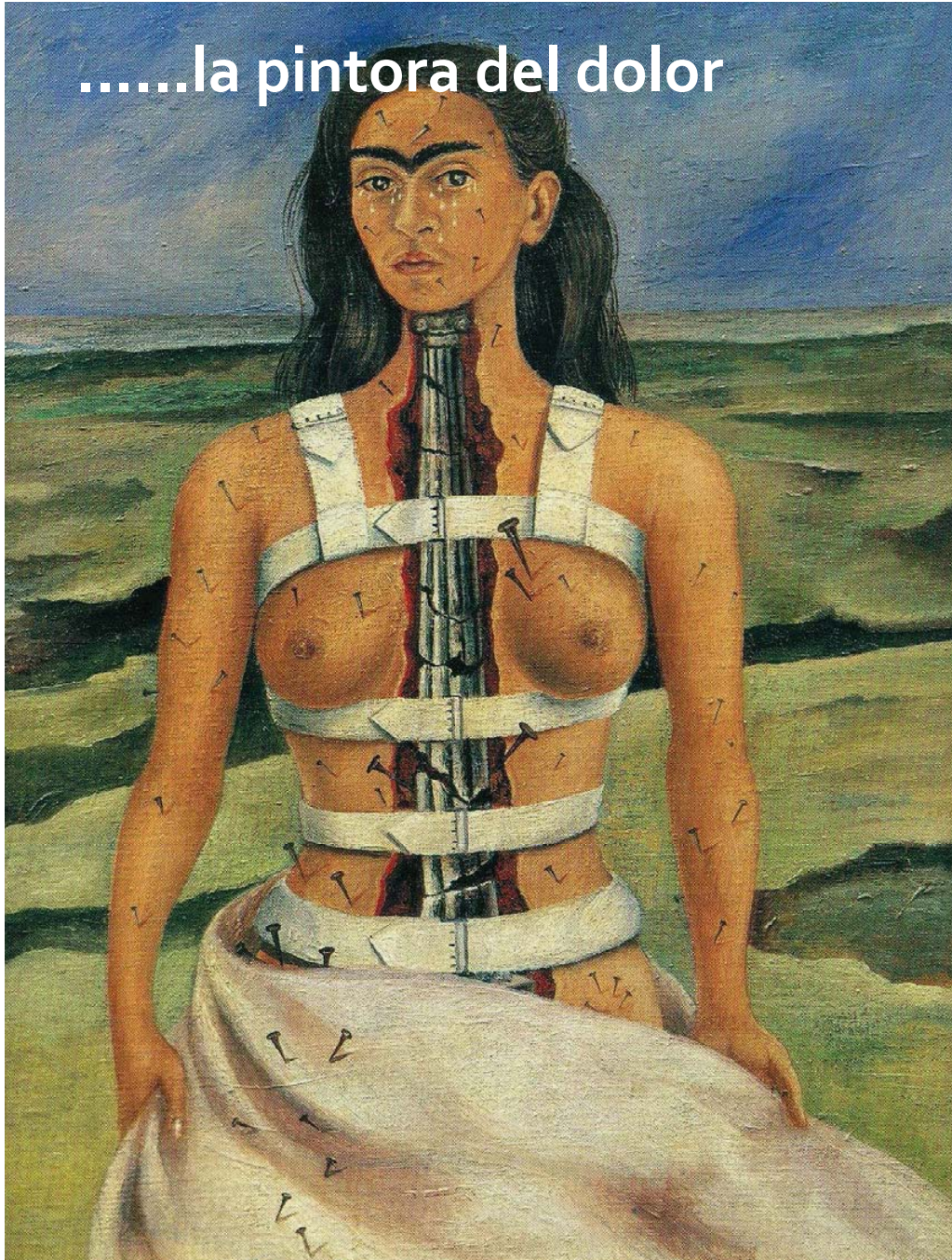








.....la pintora del dolor

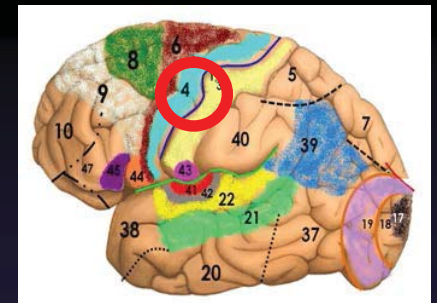
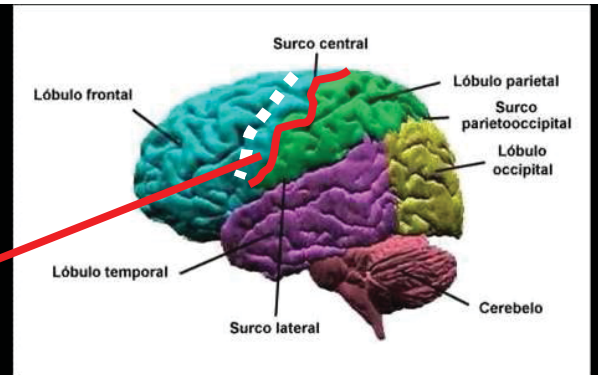


“las dos orillas de un río no sufren por dejar pasar el agua”

Frida Kahlo (1907-1954)  
La columna trencada (1925)  
Oli, 1944



.....el moviment



Mirón  
El discòbol  
Marbre 460 a.C.

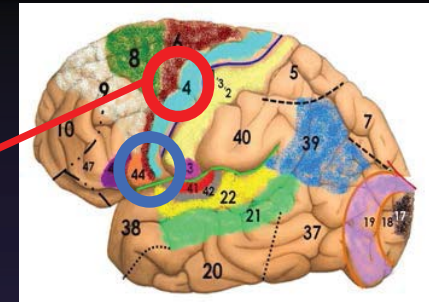
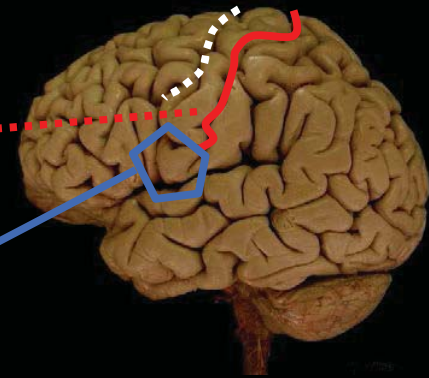


.....hemiplegia i afàsia



Juseppe Ribera " el Spagnoletto"  
L'esguerrat  
Oli, 1642

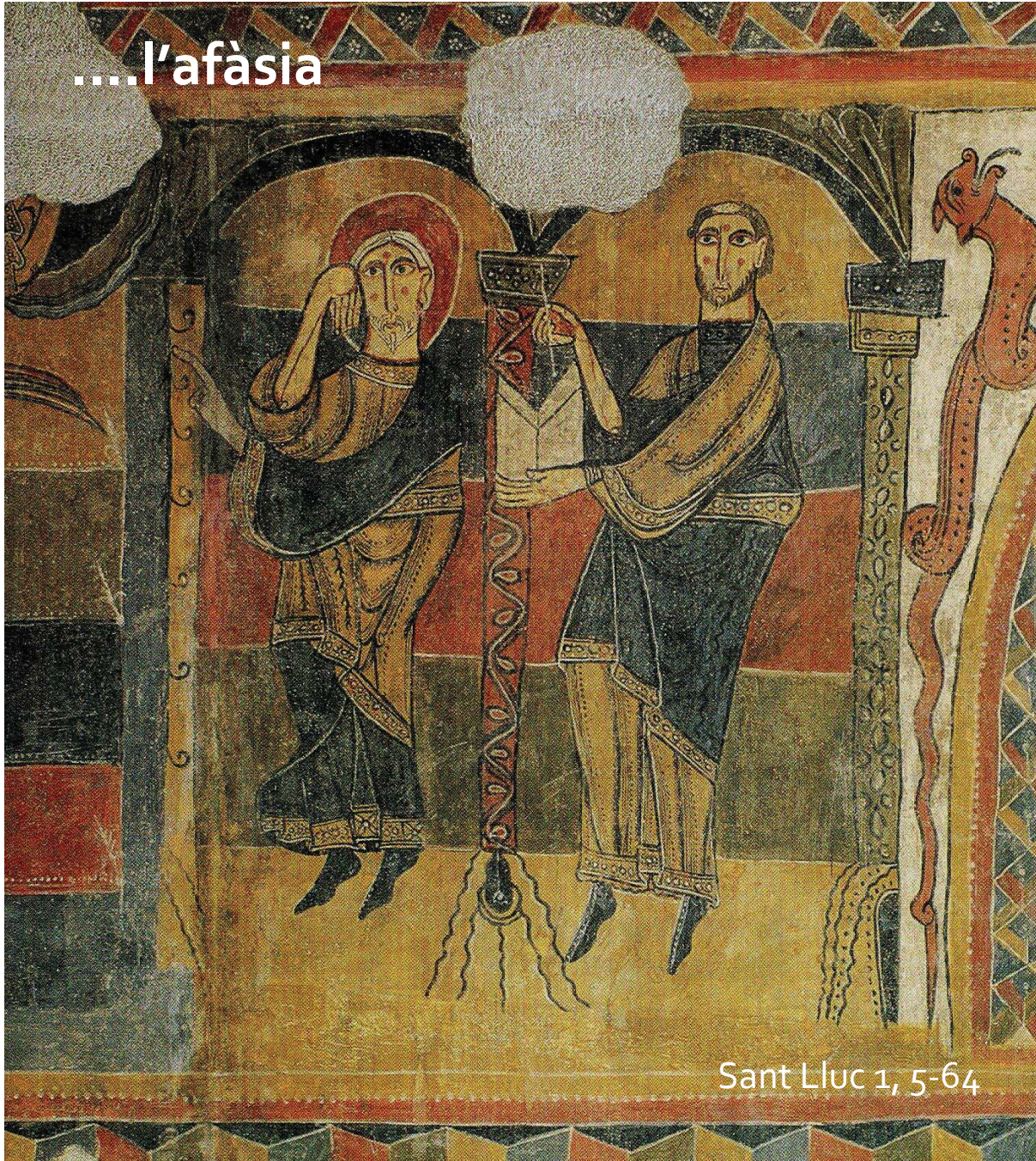




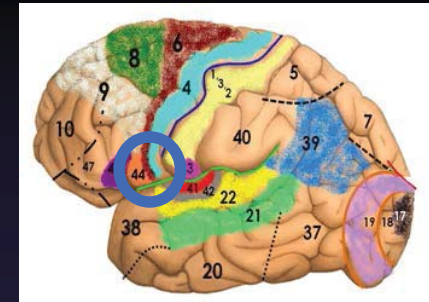
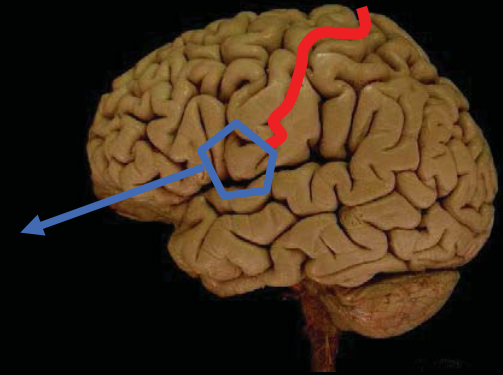
Josep Ribera " el Spagnoletto"  
L'esguerrat  
Oli, 1642



....l'afàsia



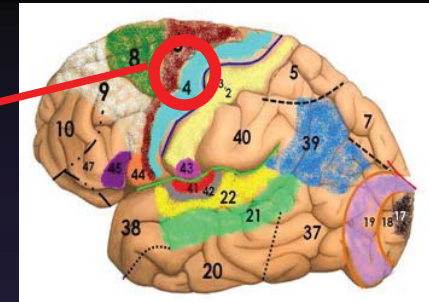
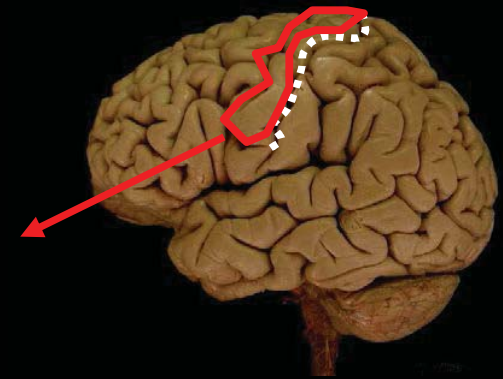
Sant Lluc 1, 5-64



Anònim  
Sant Zacarías  
Fresc. Taüll, S.XII.

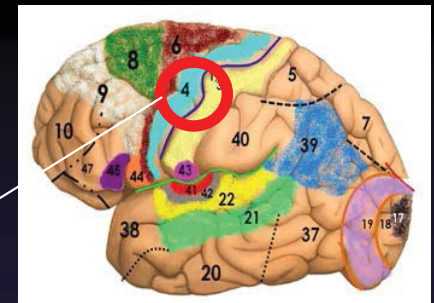


# .....reflex de Babinski



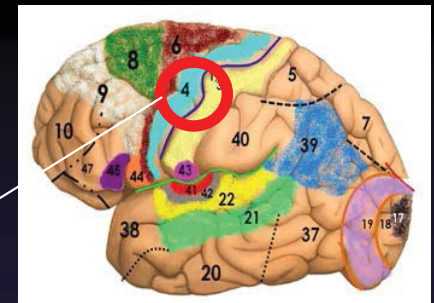
Anònim  
Ceràmica catalana  
s. XX





Gérard David  
Descans en la fugida d'Egipte  
Oli sobre taula, 1510





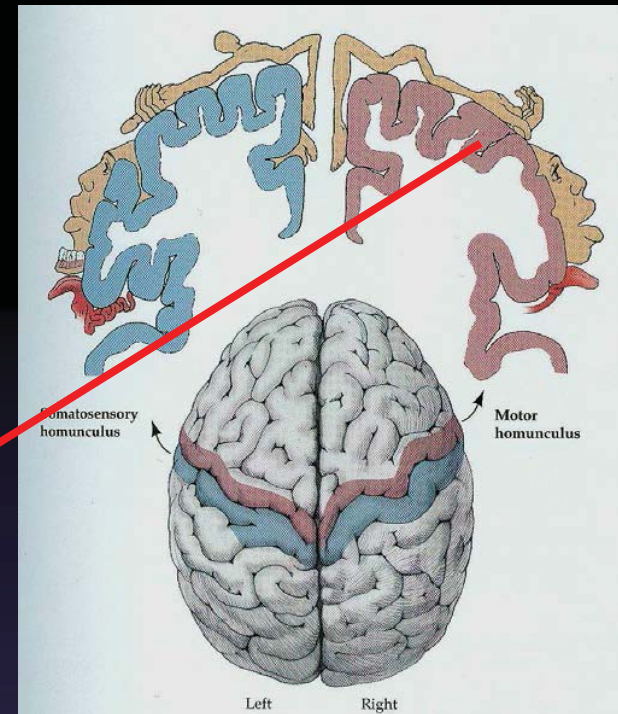
Gérard David  
Descans en la fugida d'Egipte  
Oli sobre taula, 1510



.....el moviment fi dels dits de la mà



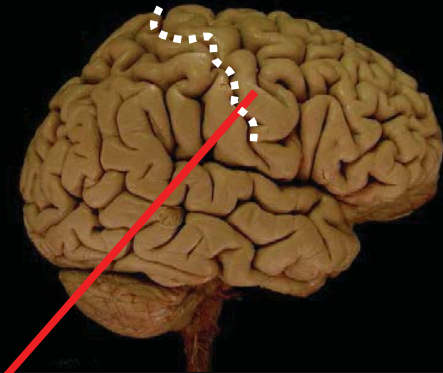
Signe de Miller-Fischer, 1960



Carl Spitzweg  
El poeta pobre  
Oli, 1839.



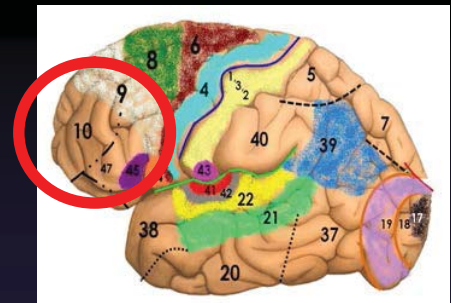
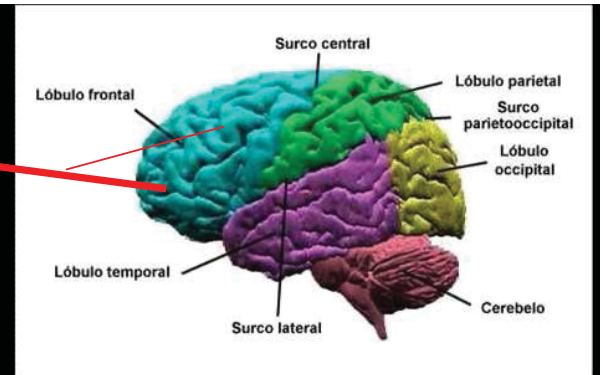
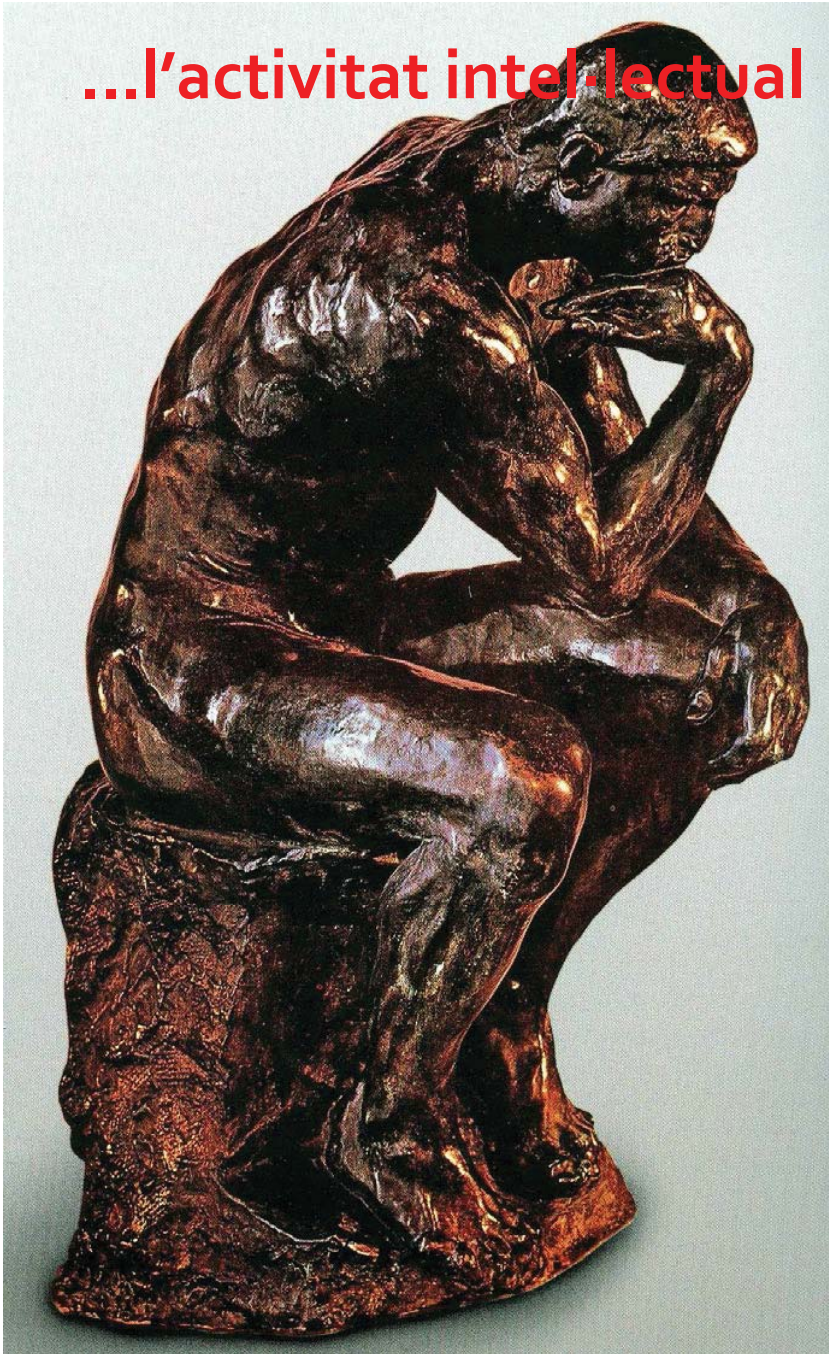
.....l'esquerrà



Marc Chagall  
El violinista celeste  
Gouache sobre paper, 1934



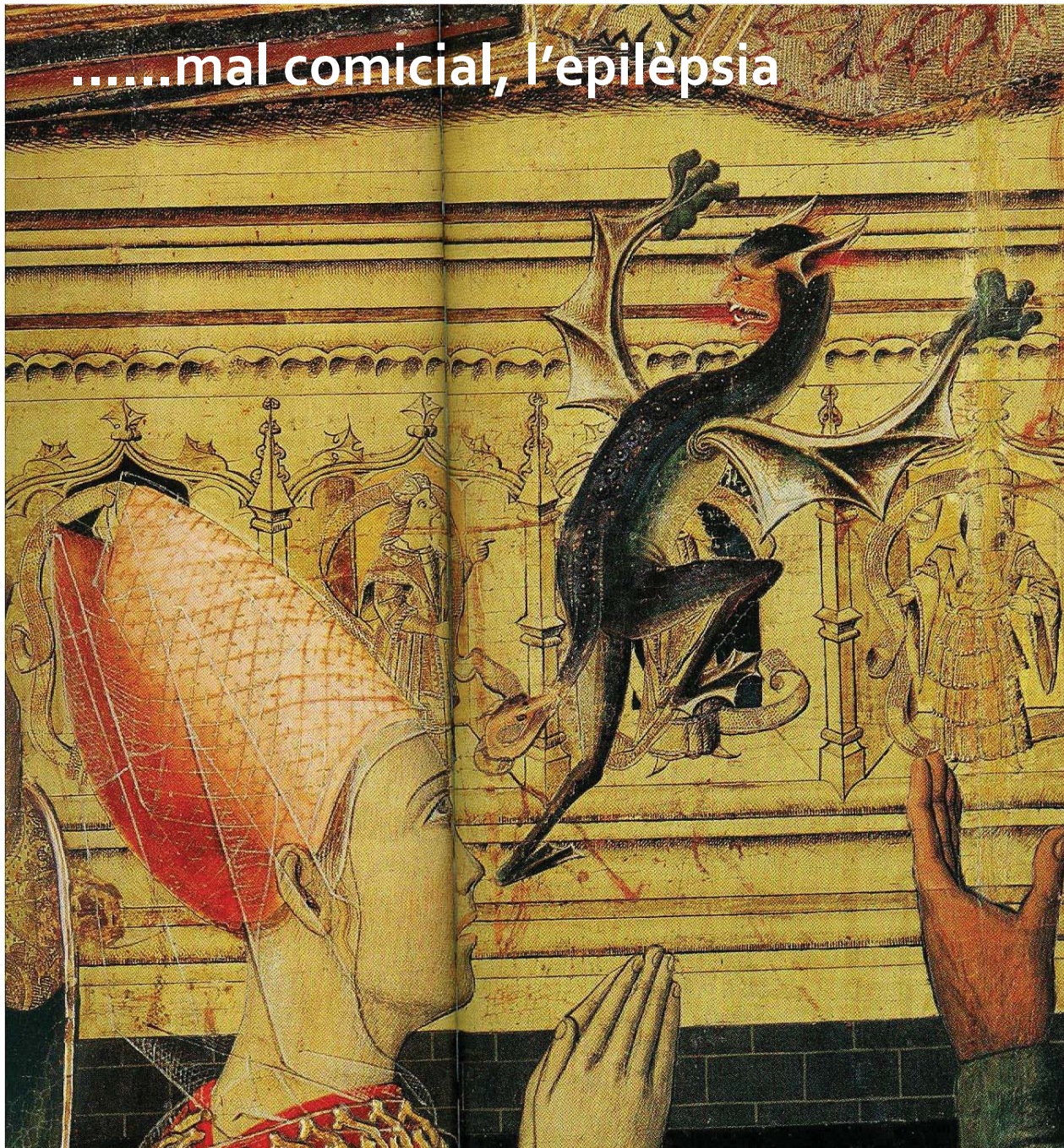
...l'activitat intel·lectual



August Rodin  
El pensador  
Bronze, 1880.

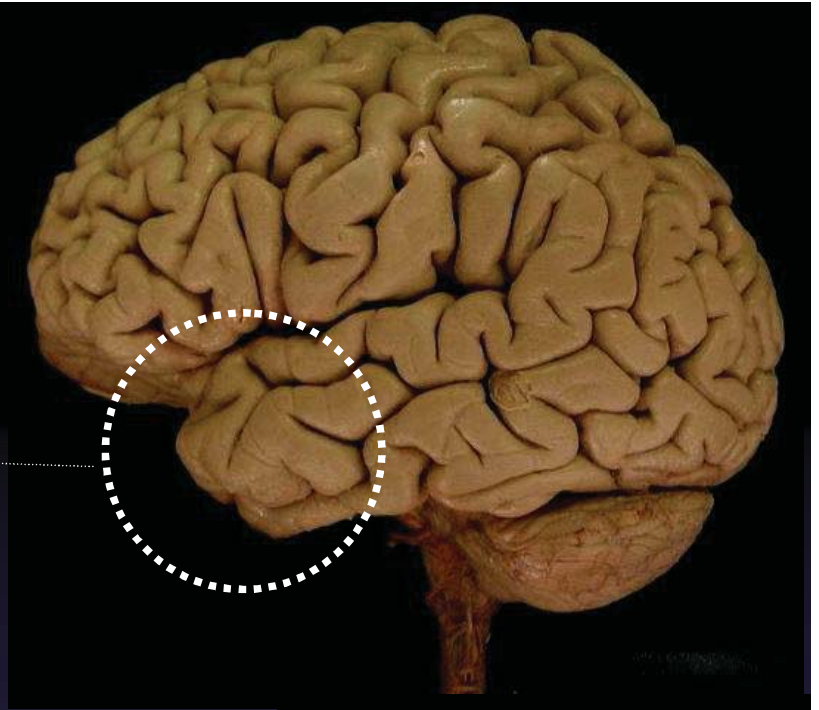
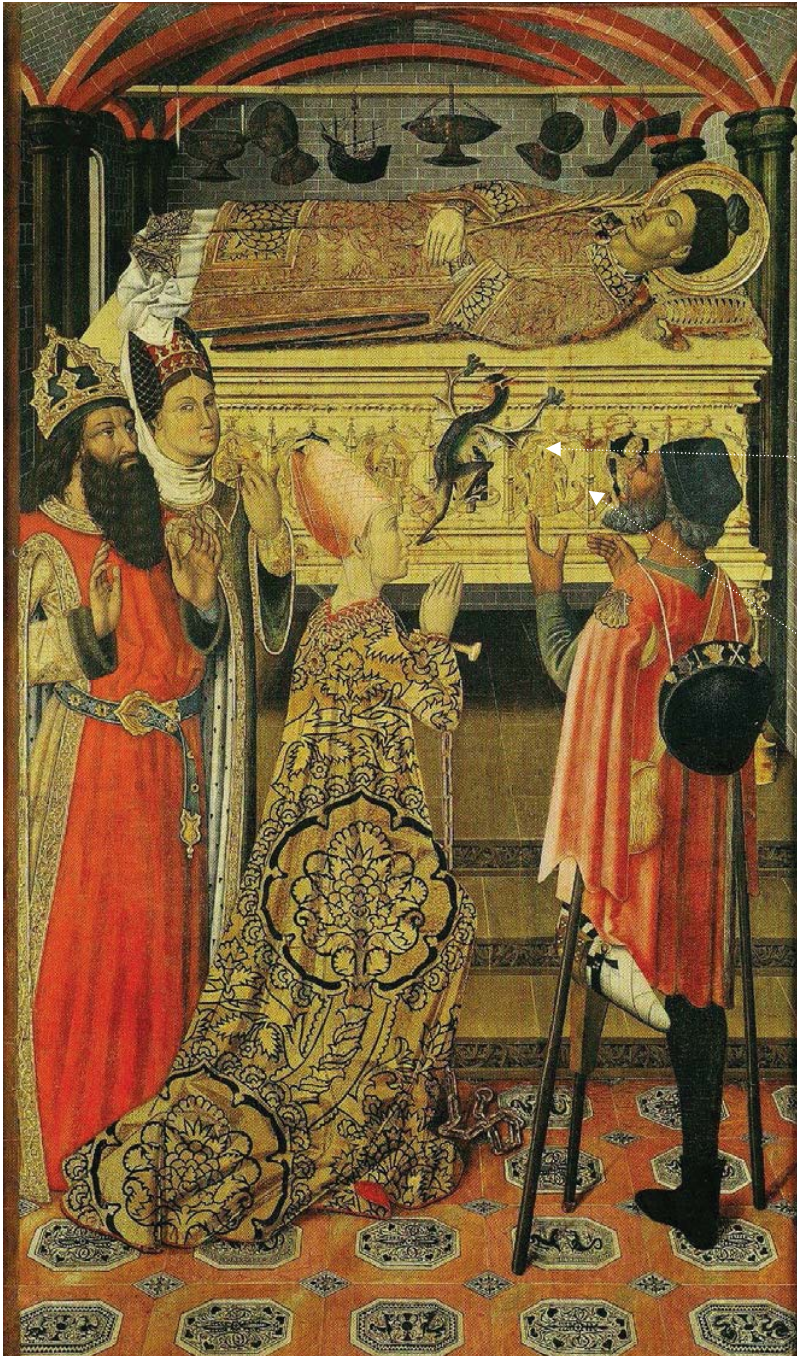


.....mal comicial, l'epilèpsia



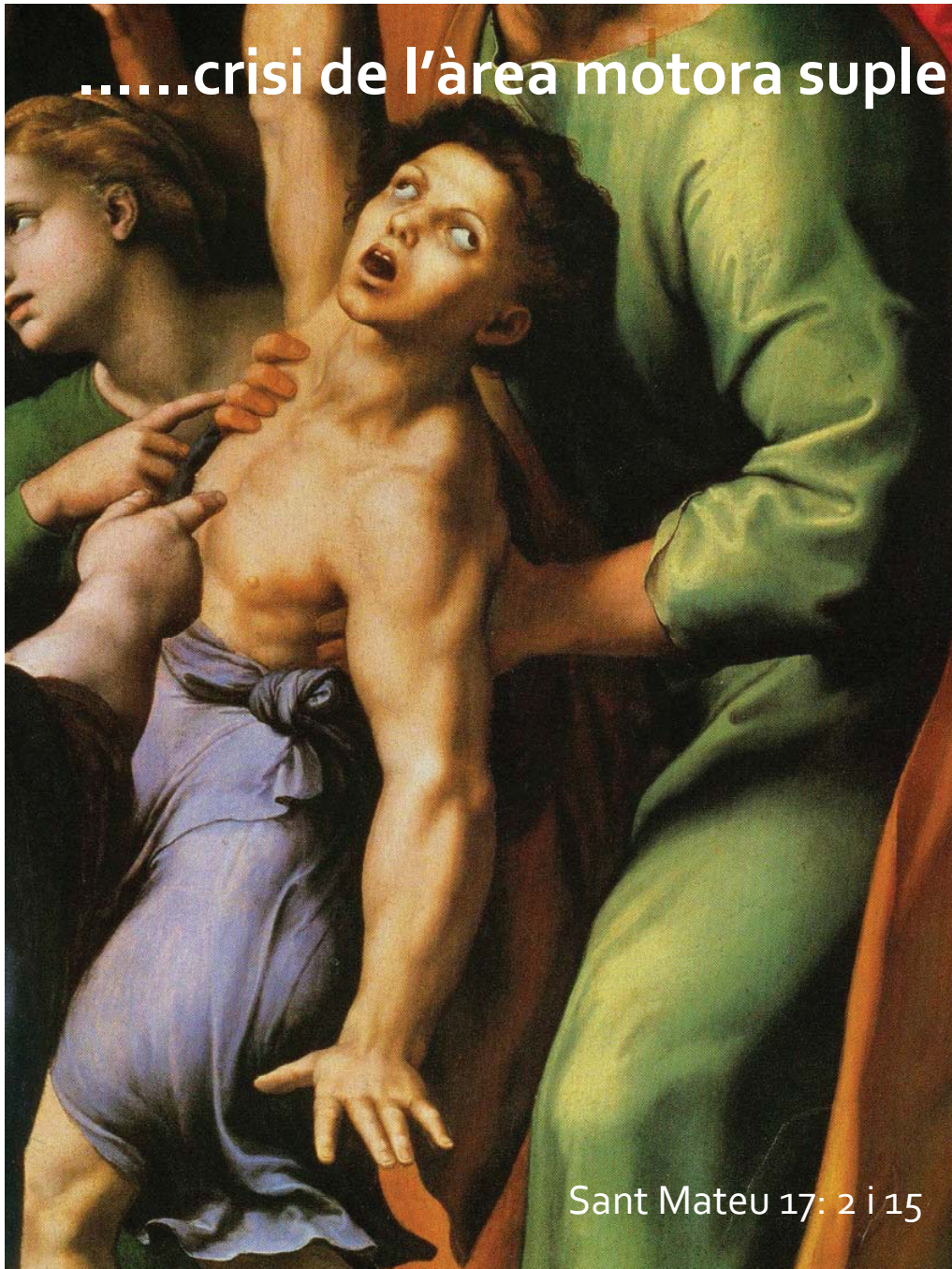
Rafel Vergós (Jaume Huguet)  
Retable de Sant Estebe  
Pintura sobre taula, 1493







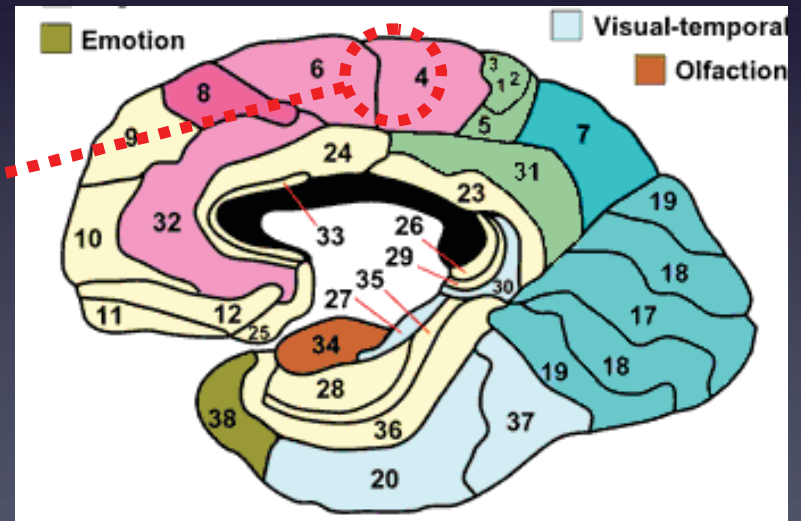
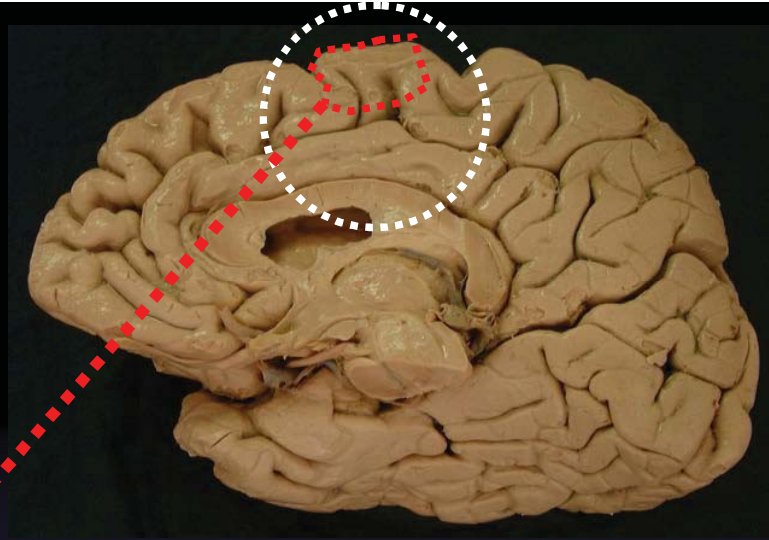
.....crisi de l'àrea motora suplementària



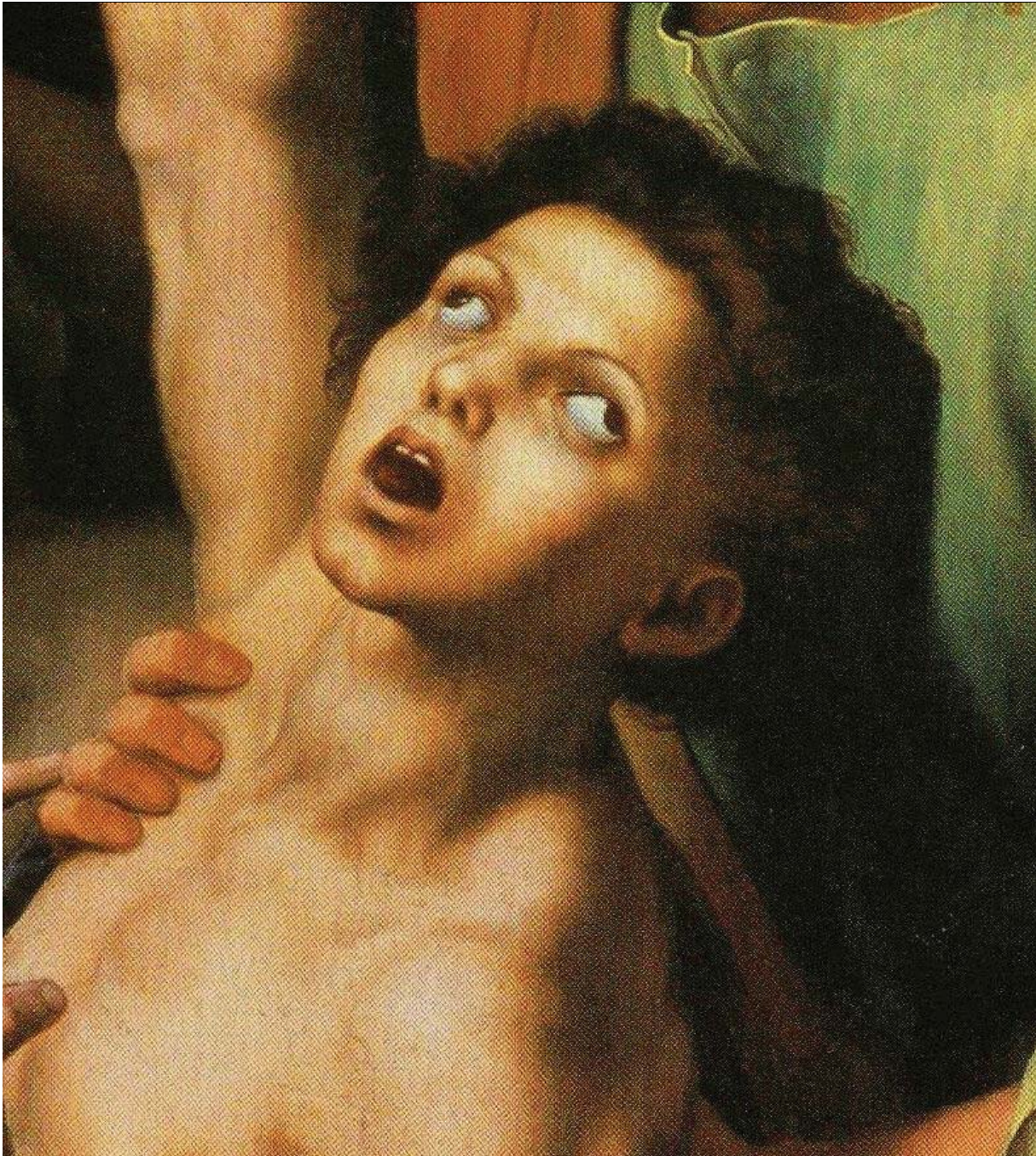
Sant Mateu 17: 2 i 15

Rafael  
La transfiguració  
1517



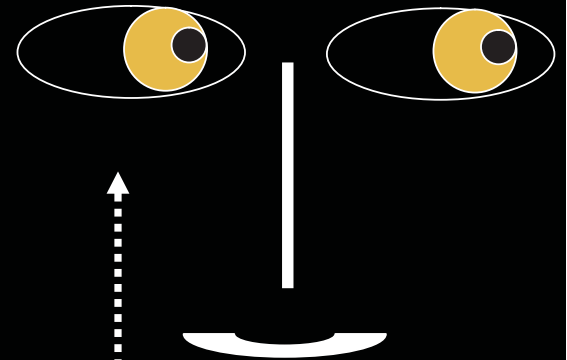
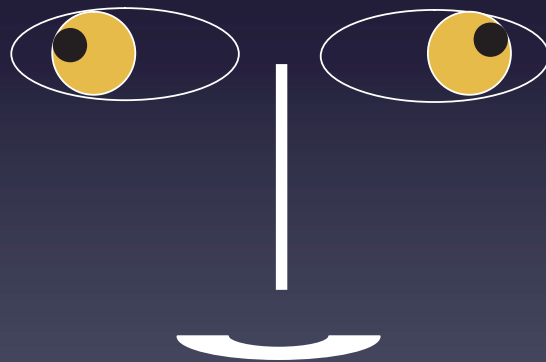






Rafael  
La transfiguración,  
*Inacabat per l'autor?*



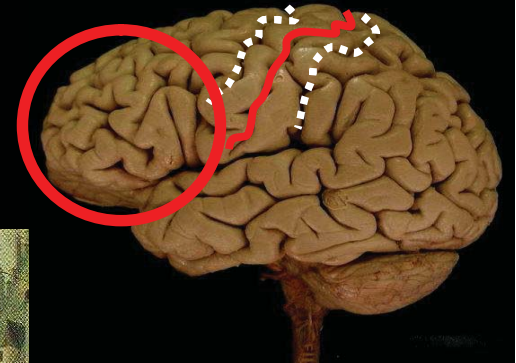


...dibuix original  
"Biblioteca Ambrosiana de Roma"  
Richard P. L'art et la medicine. Paris  
Gautier Magnier et Cie.

Rafael  
*La transfiguració  
Inacabat per l'autor*



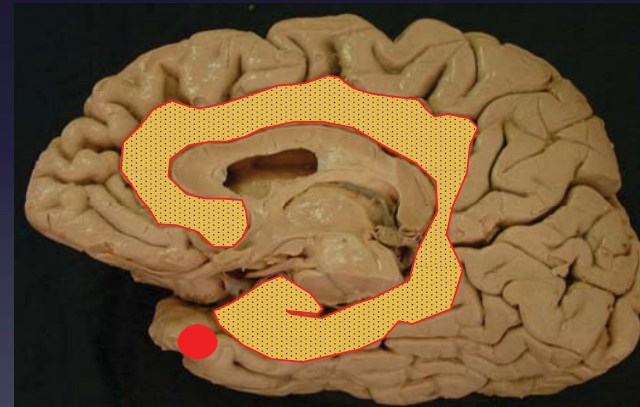
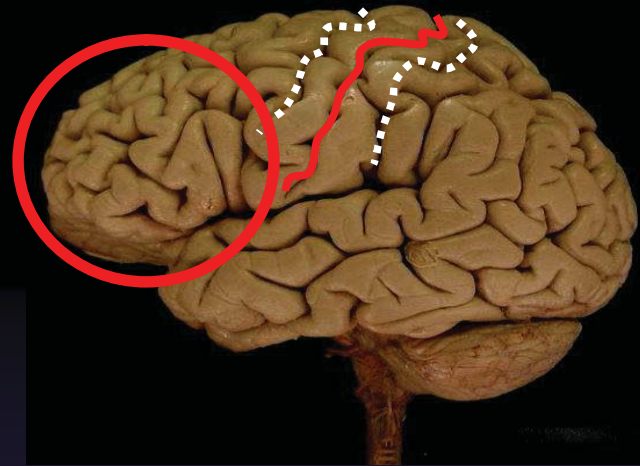
# .....el deteriorament cognitiu



Jan Sanders van Hemessen  
Extracció pedra bogeria  
*Oli, 1550*



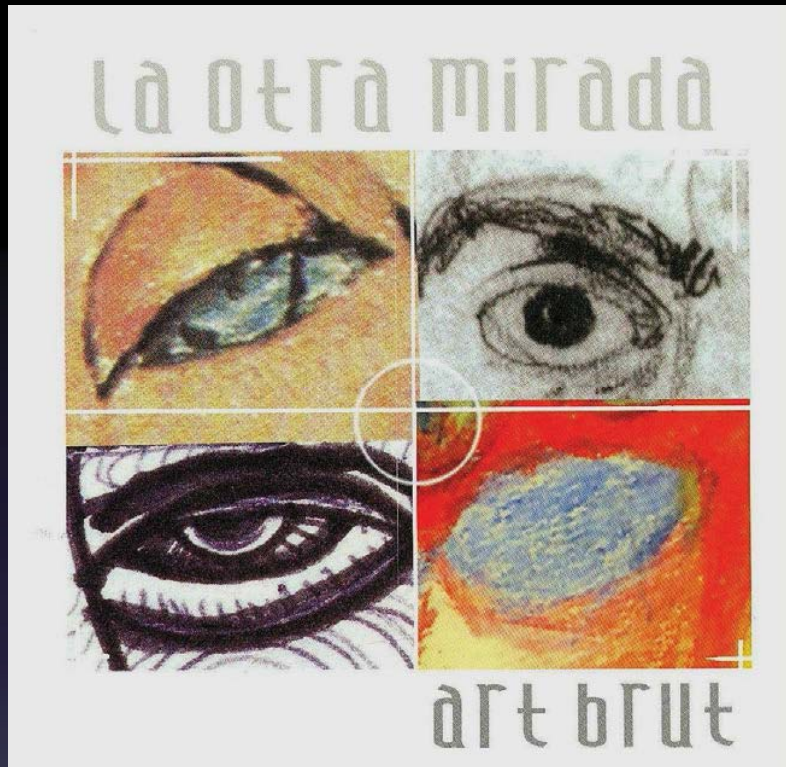
# .....la bogeria : el trastorn mental



Pablo R. Picasso  
El boig  
Acuarela, BCN, 1904



# art brut



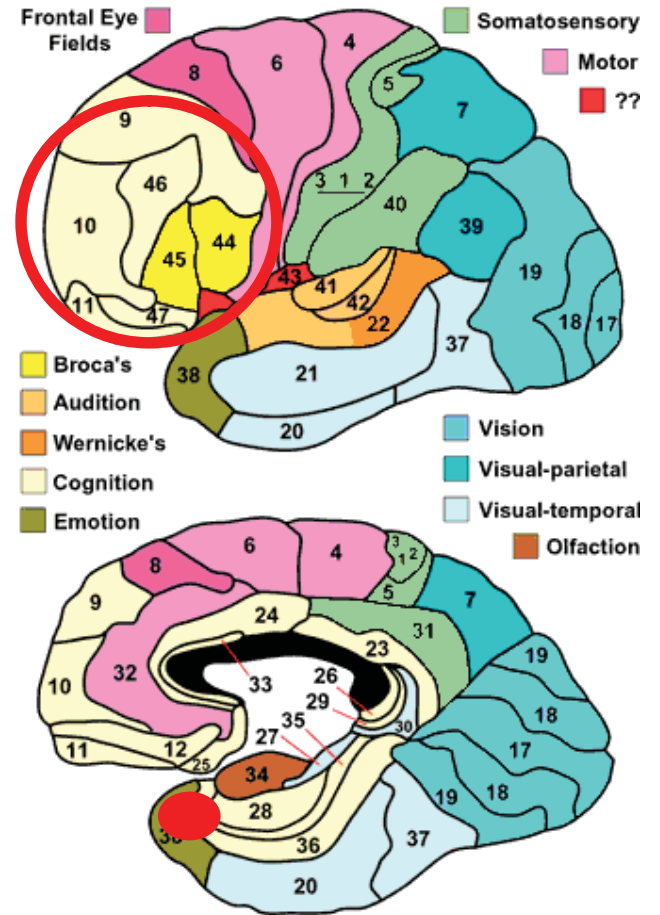
Jean Dubuffet  
*Art Brut*  
1945



Bruno Decharme  
*Colecció*  
1999



# .....el trastorn esquizofrènic



Yassir Amazine (1975- )  
La loca  
*Bolígraf*,