

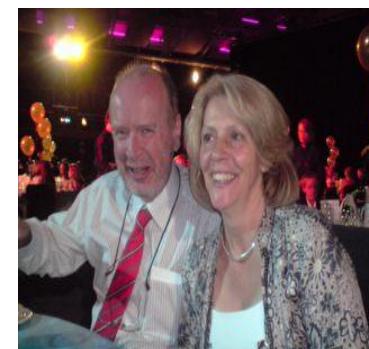
GRESHAM COLLEGE



Mimicry of Nature for Disease Detection and Destruction.

si unum sit melius, quod est certum modum naturae

if one way be better than another, be sure it is natures'



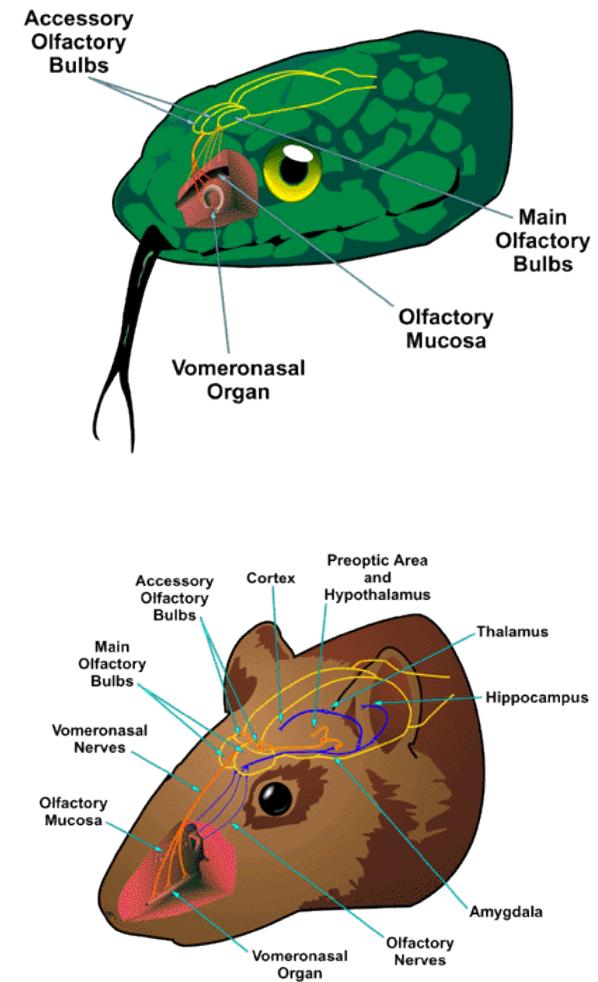
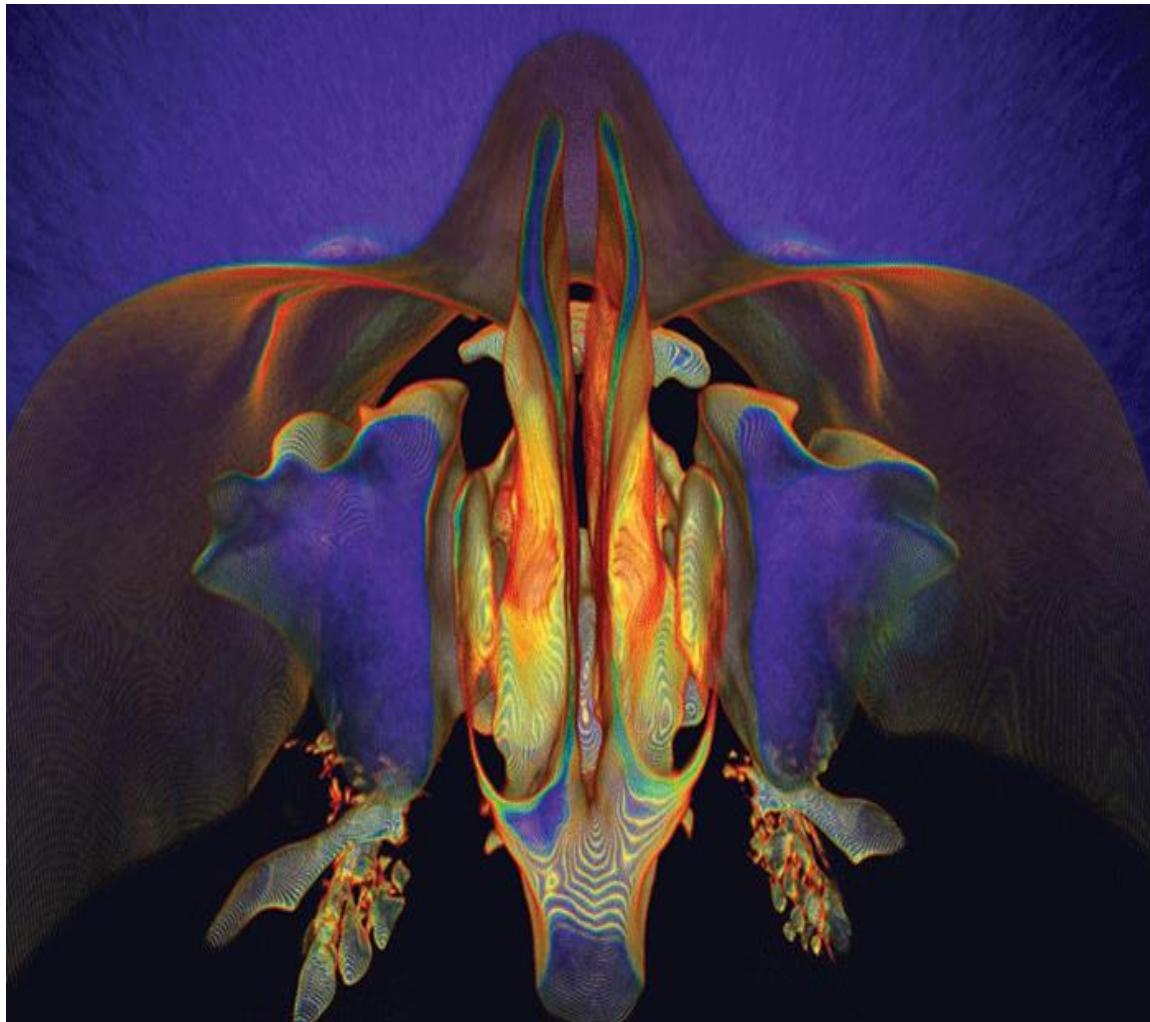
What is Seen: ‘tears in the rain’



[HTTP://AIRAF-ART.BLOGSPOT.COM](http://AIRAF-ART.BLOGSPOT.COM)

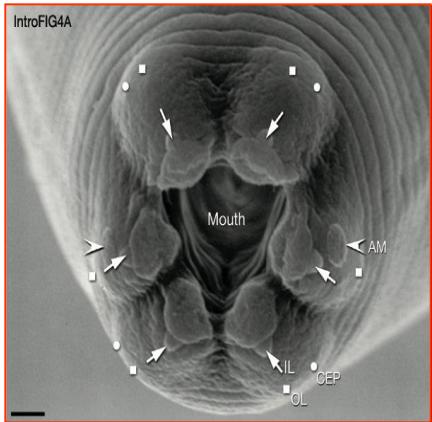


'nose have they but they smell not' Ps 115v5



How most interact with environment

30% of our genome 'smell/taste'



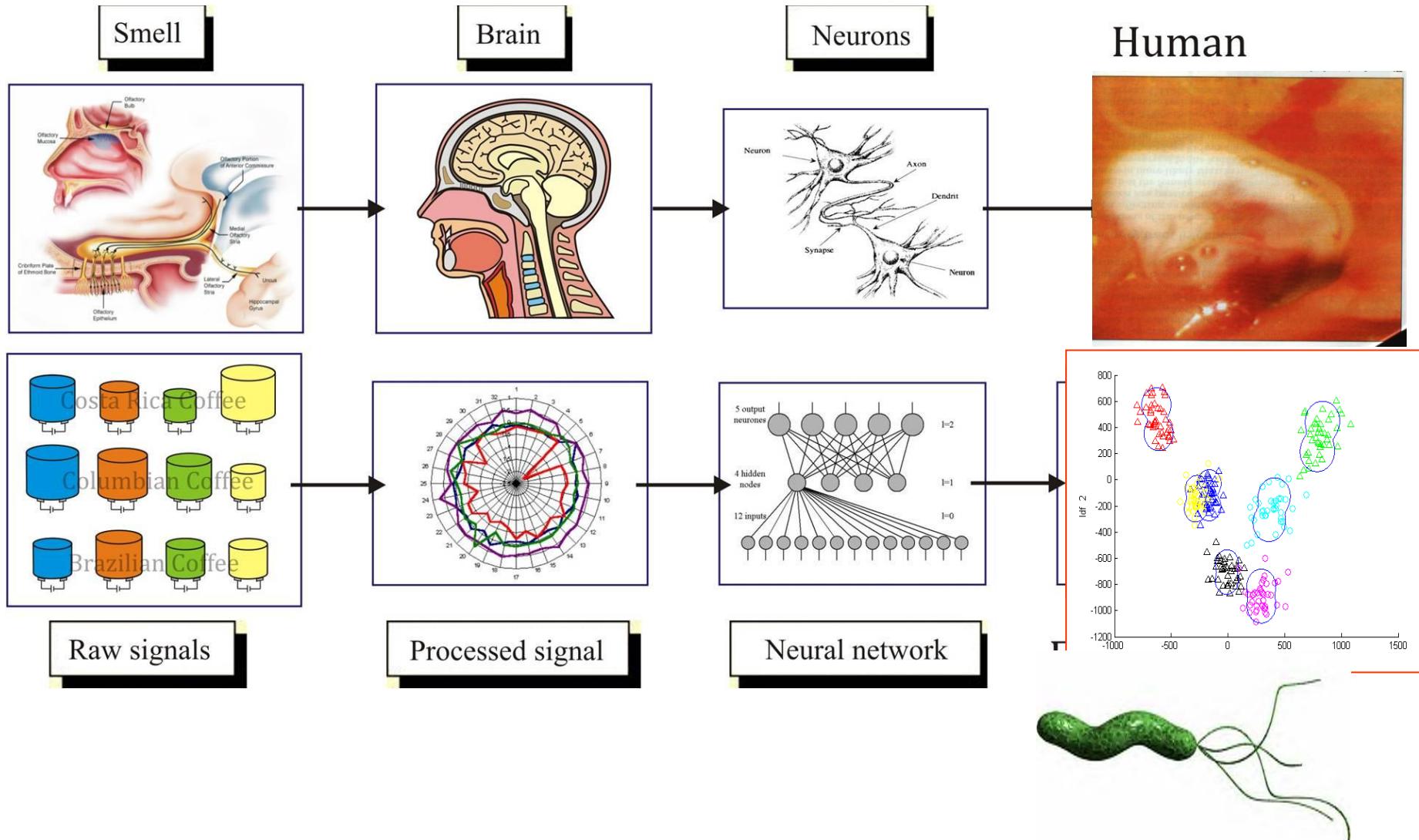
Most of Nature use taste and smell.

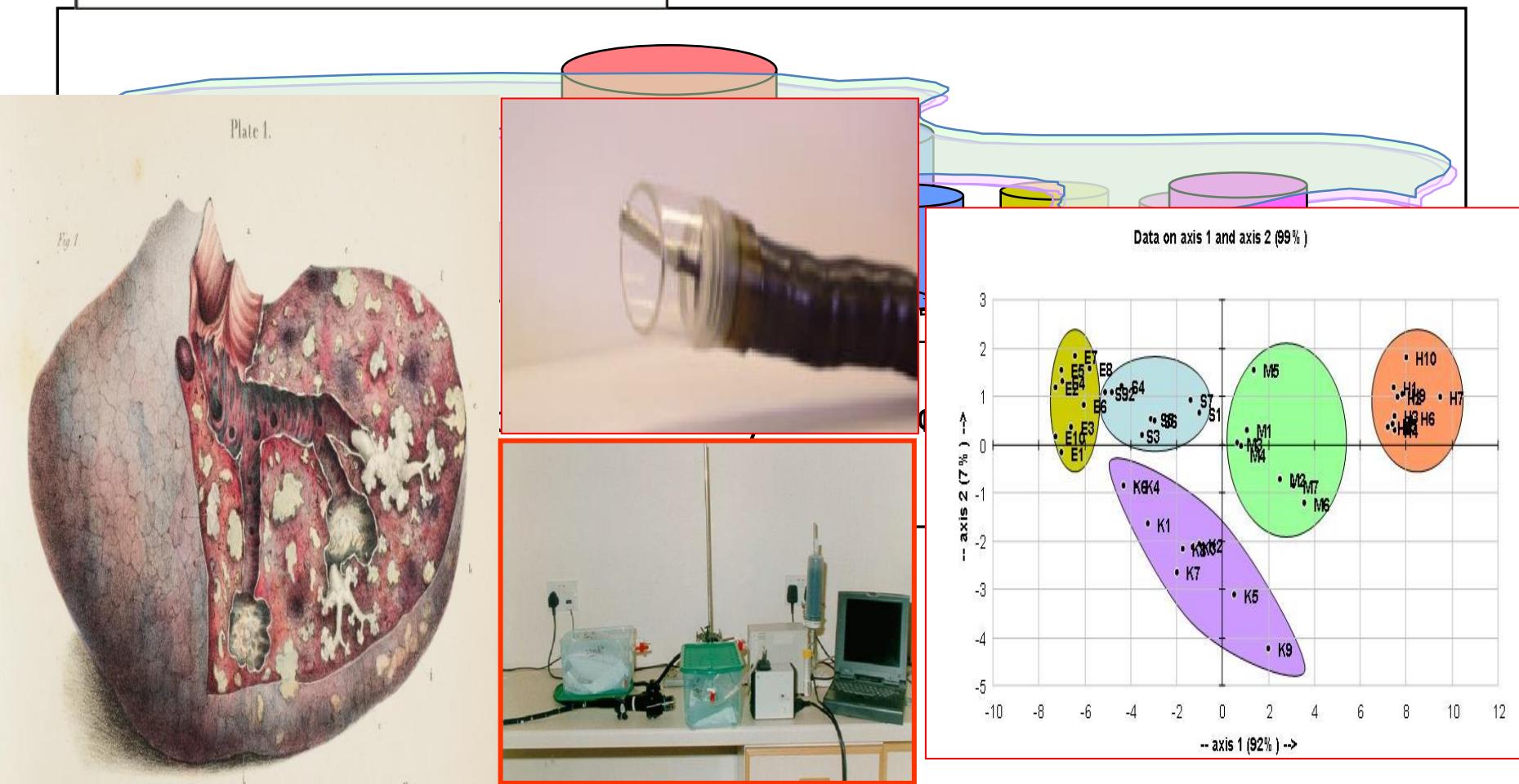
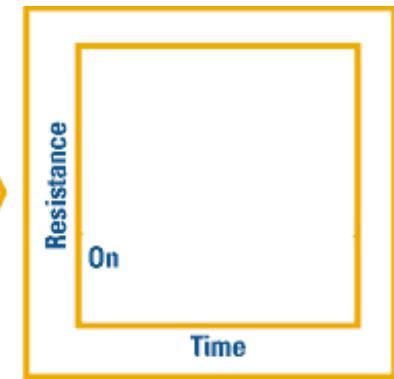
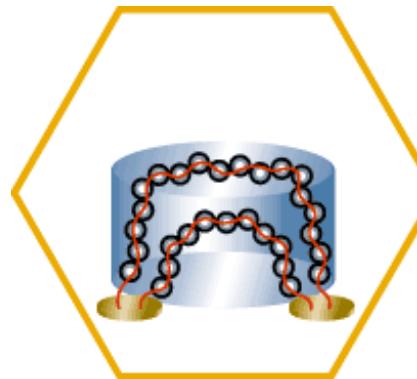
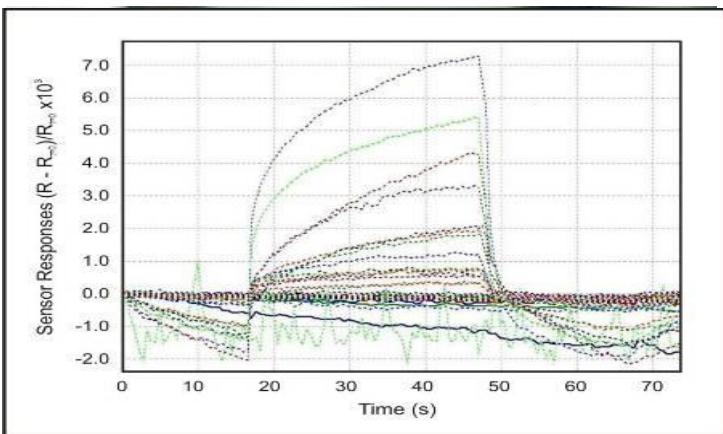


through faith we walk,
not through sight

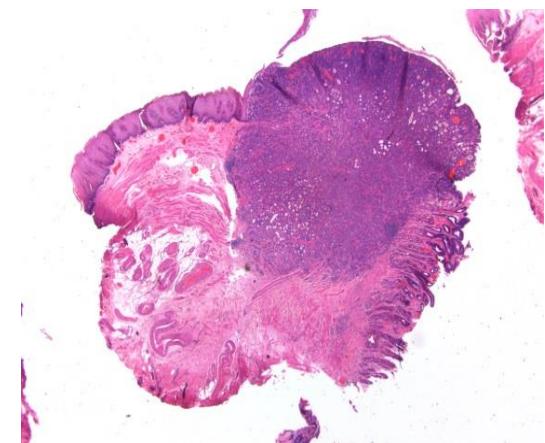
© HANDOUT
REUTERS

Electronic Nose

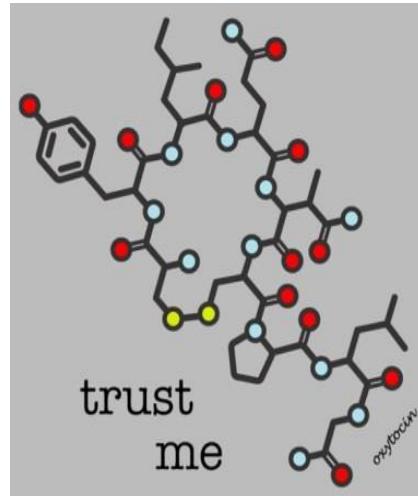




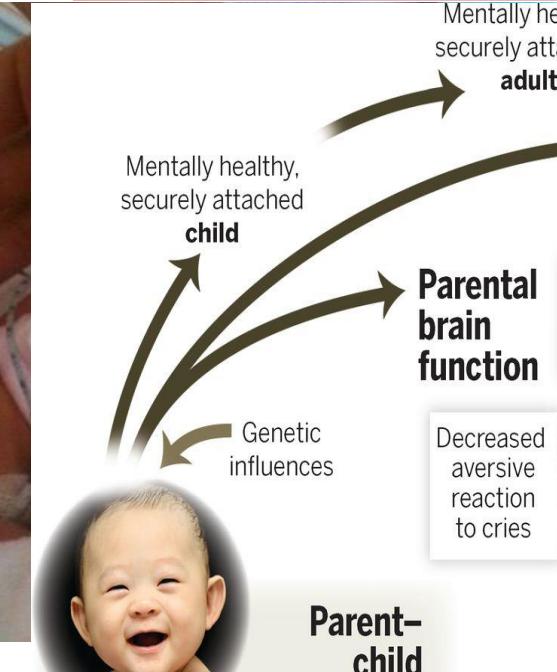
or will sniff you now!



empirical evidence

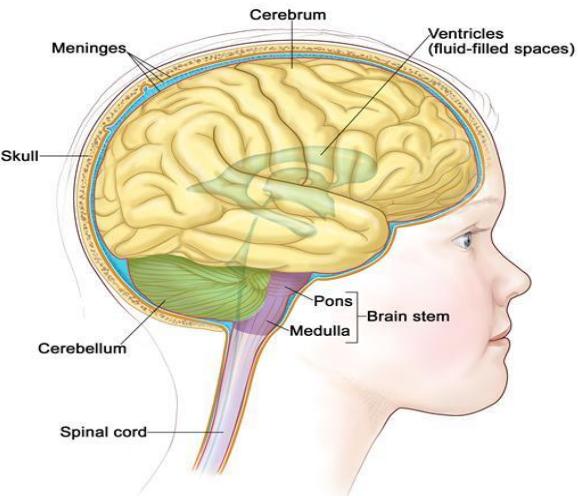
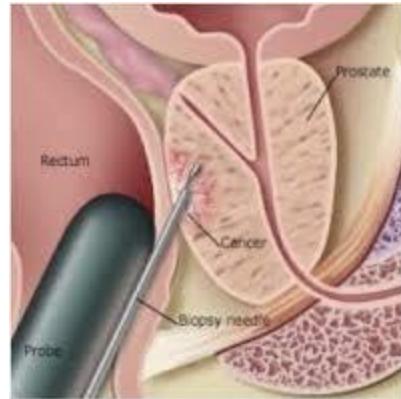
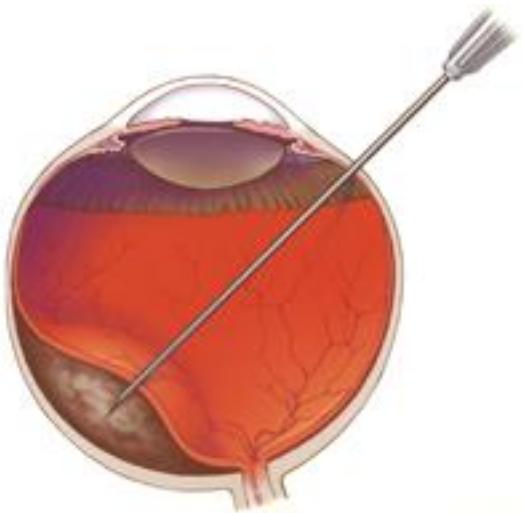


'preuves fatigués de la vérité'



'He setteth the solitary in families' Ps 68

Disease Detection: Biopsy Body Bits



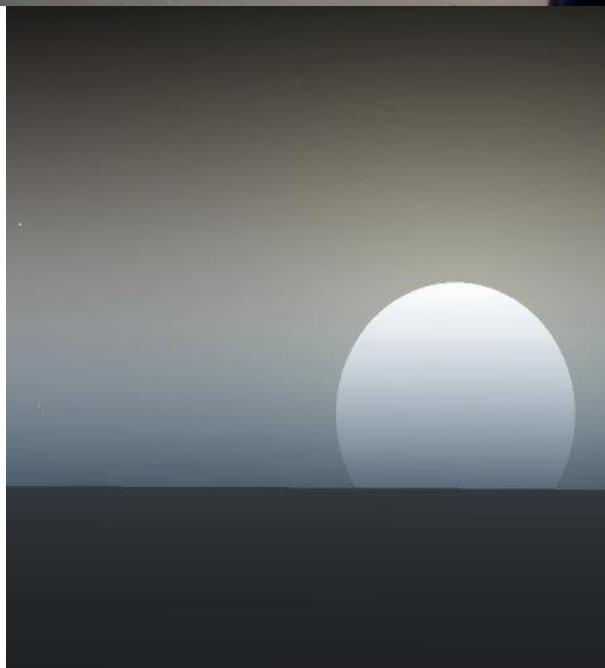
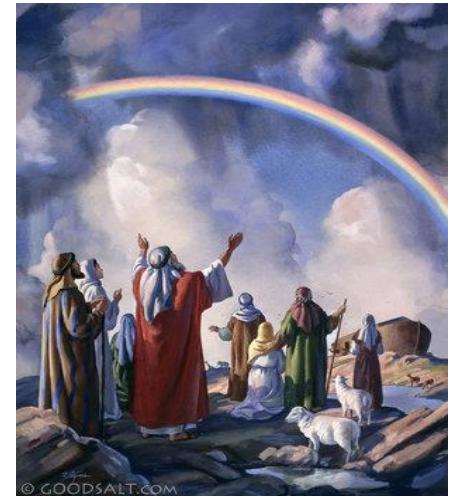
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Μή μου ἄπτου (*mē mou haptou*); noli me tangere.
John 20v17

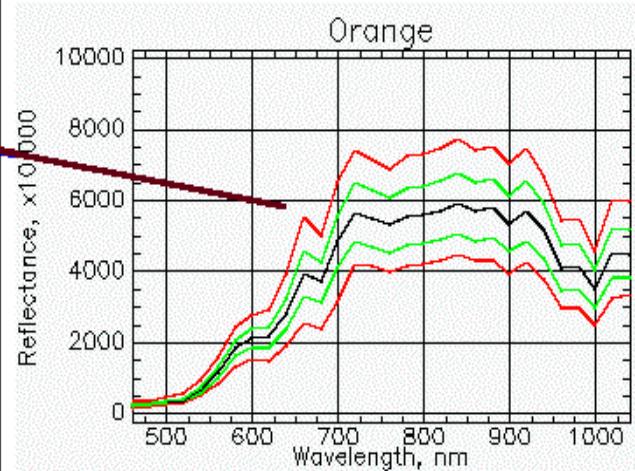
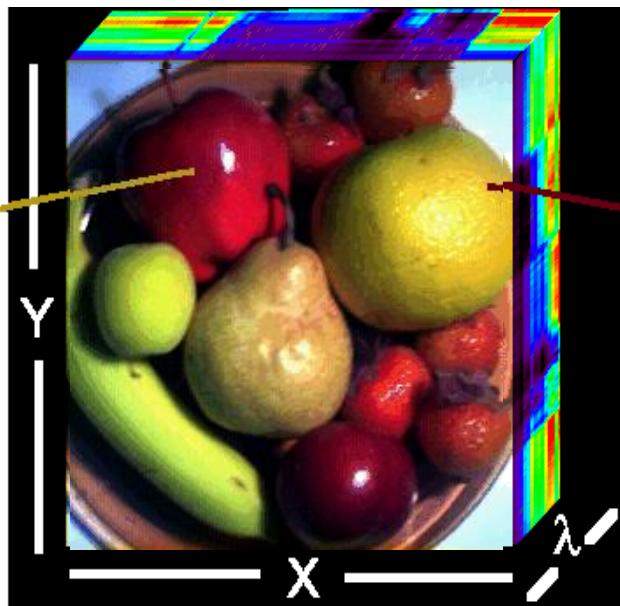
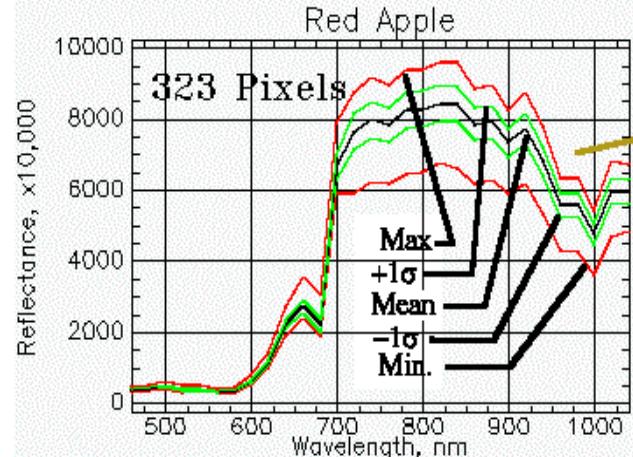


Body: light and obscurity

'this is the sign of the covenant'

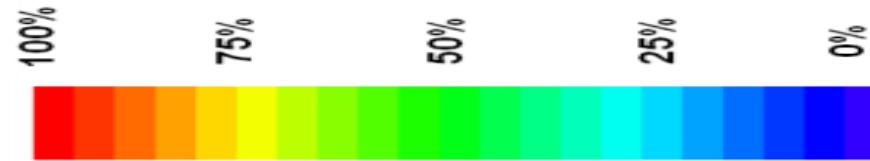
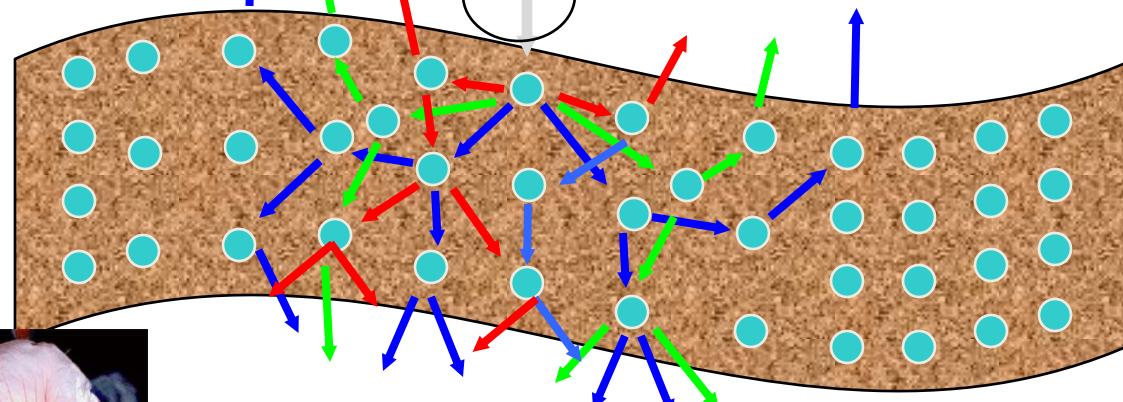
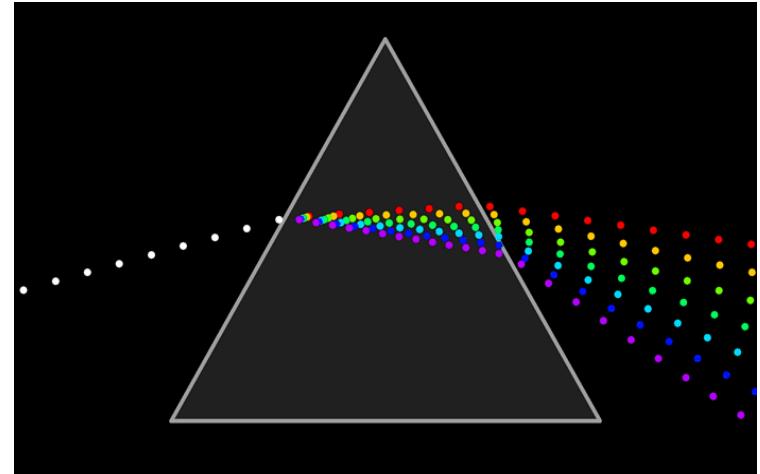


Spectral imaging

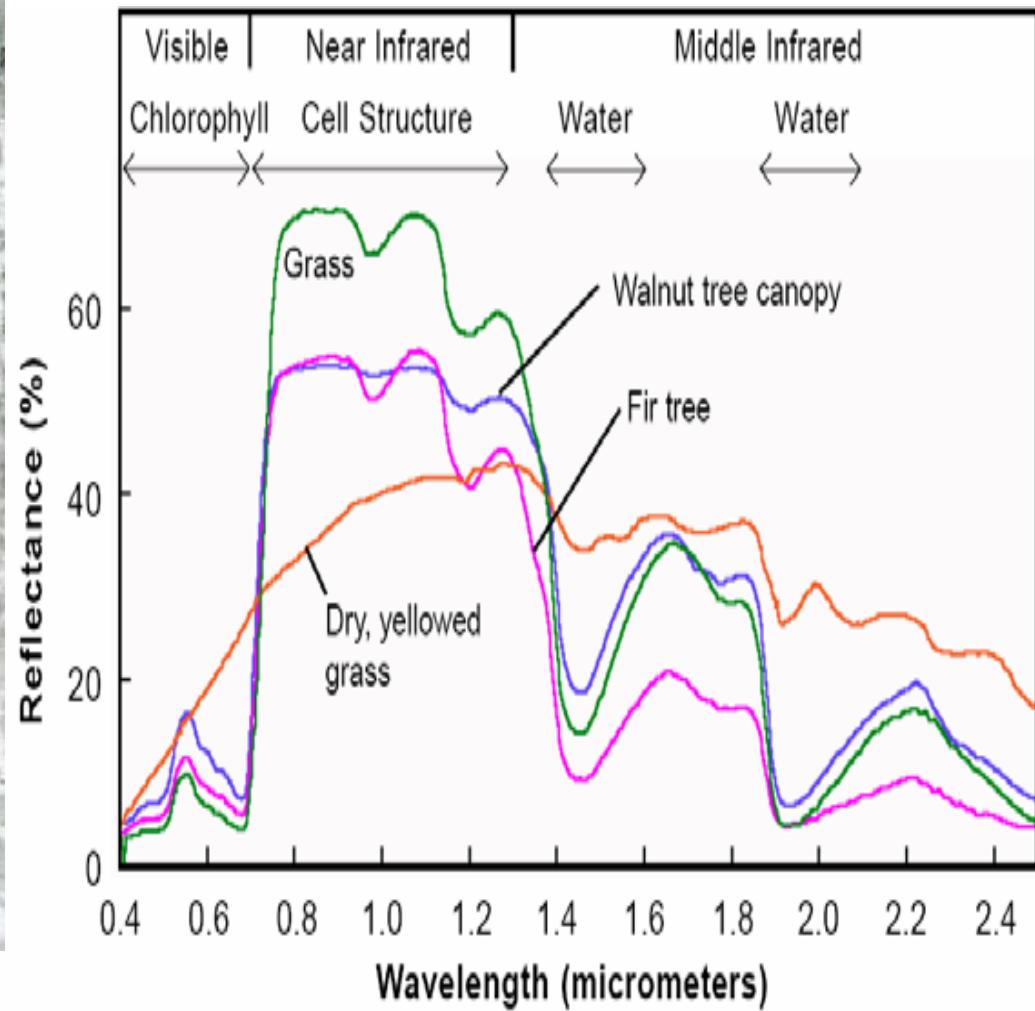


Separation of objects by analysis of colour differences

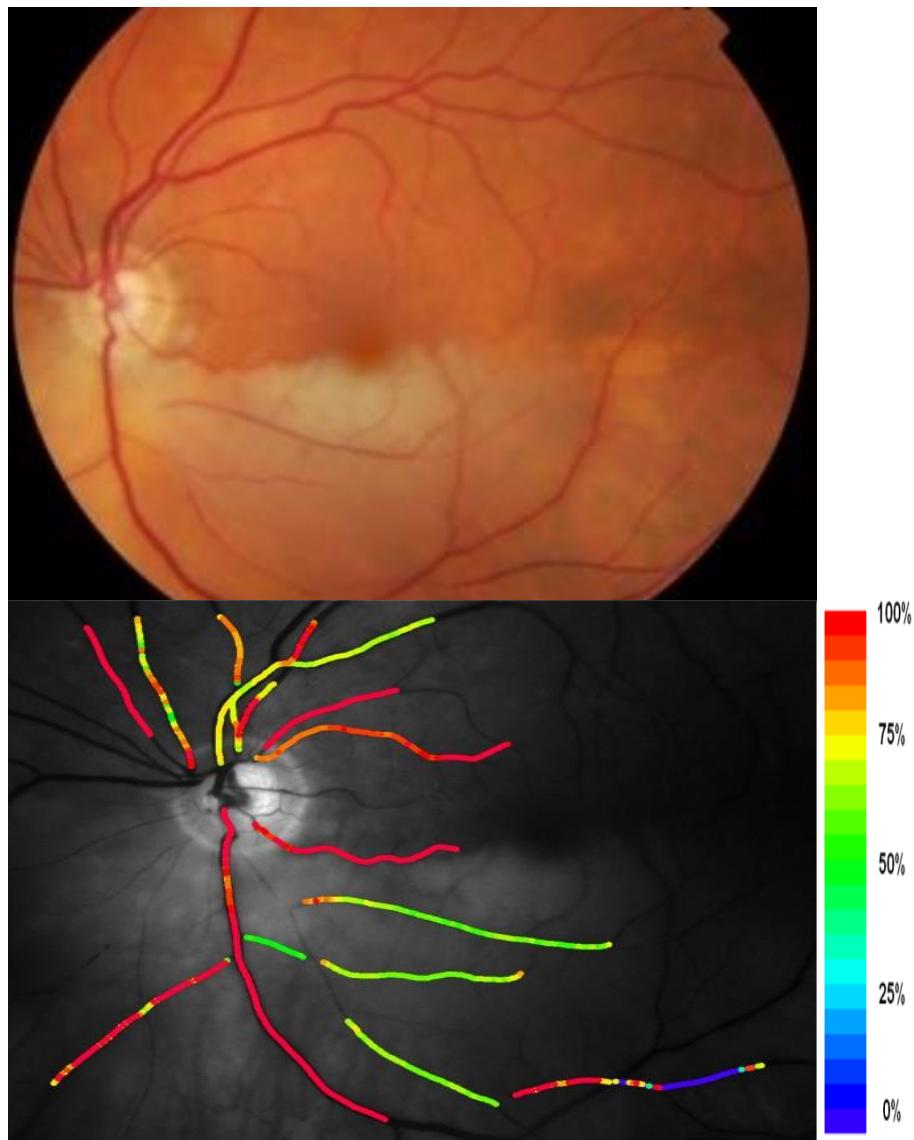
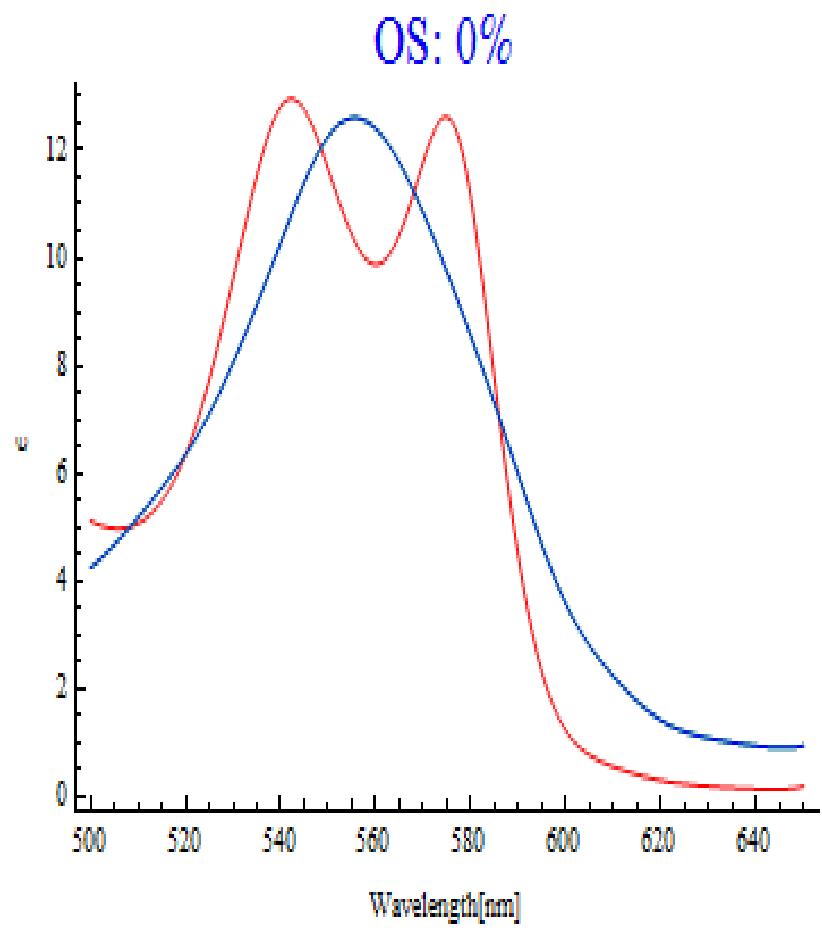
Rainbow mimetics

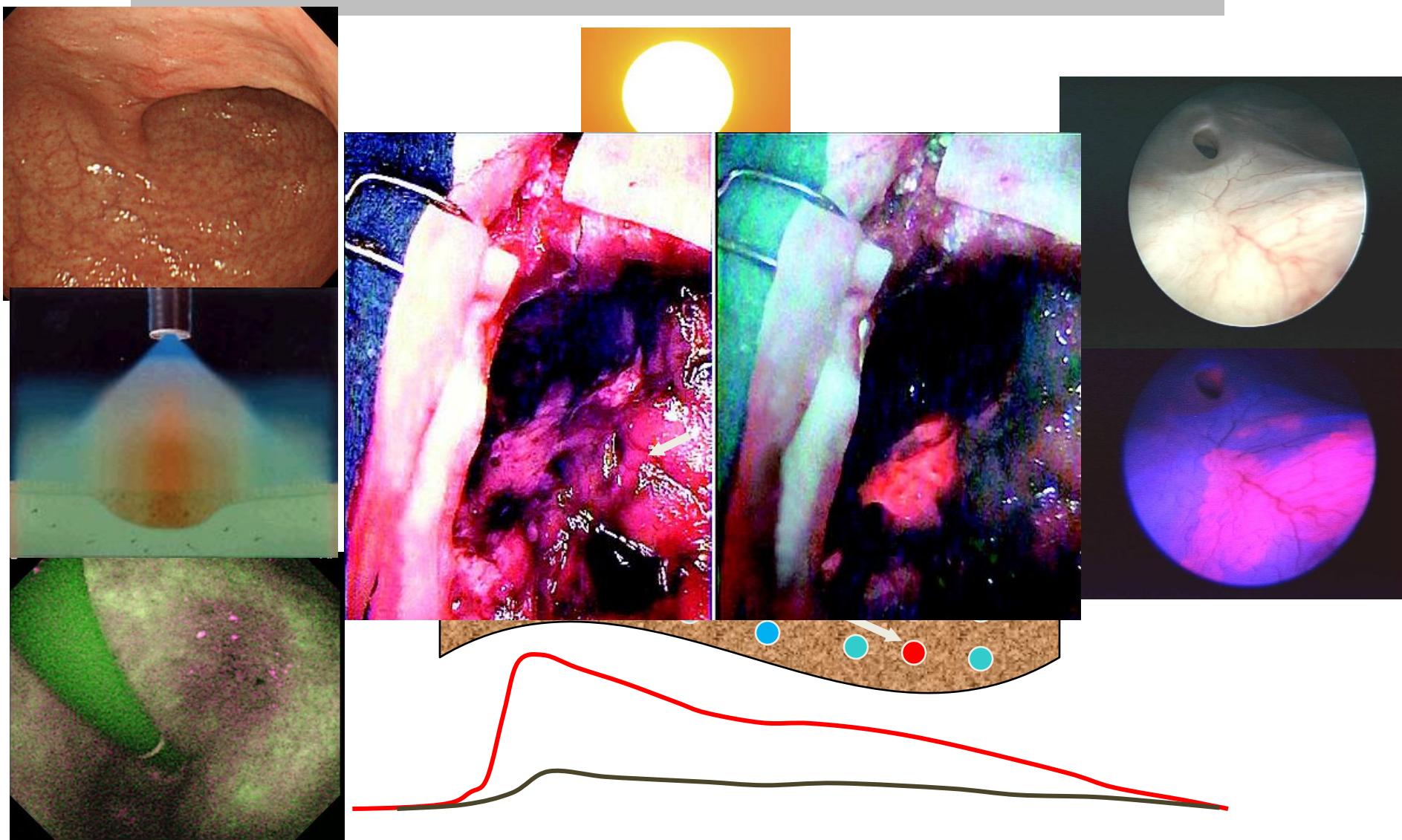


'swords into ploughshares'

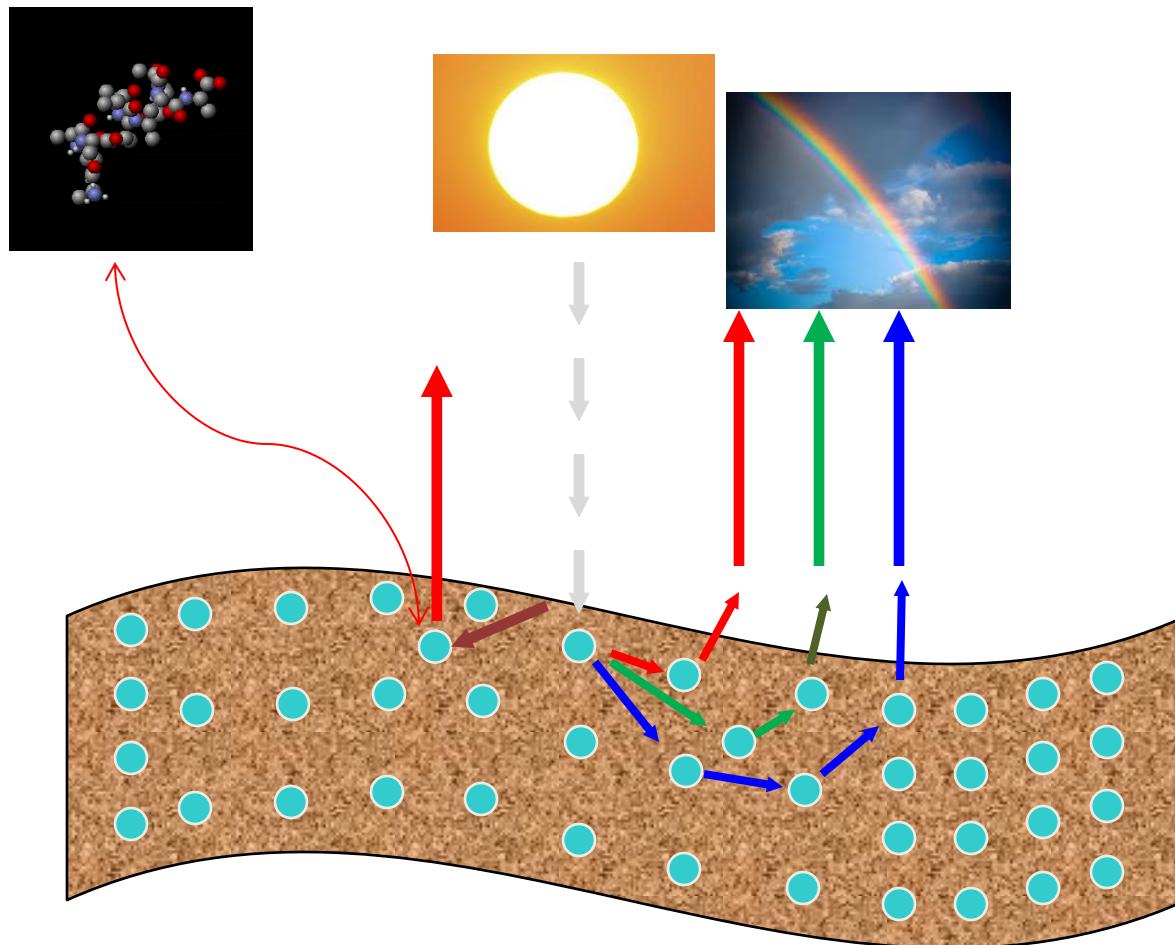


Detecting subtle eye damage

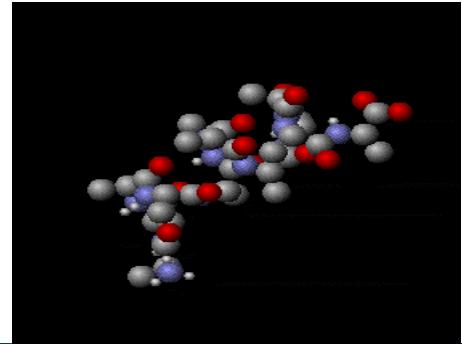
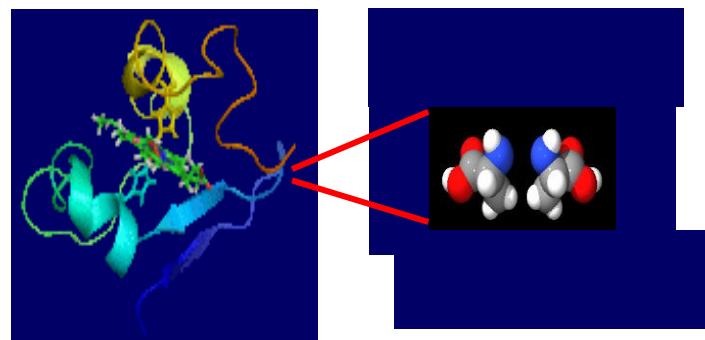
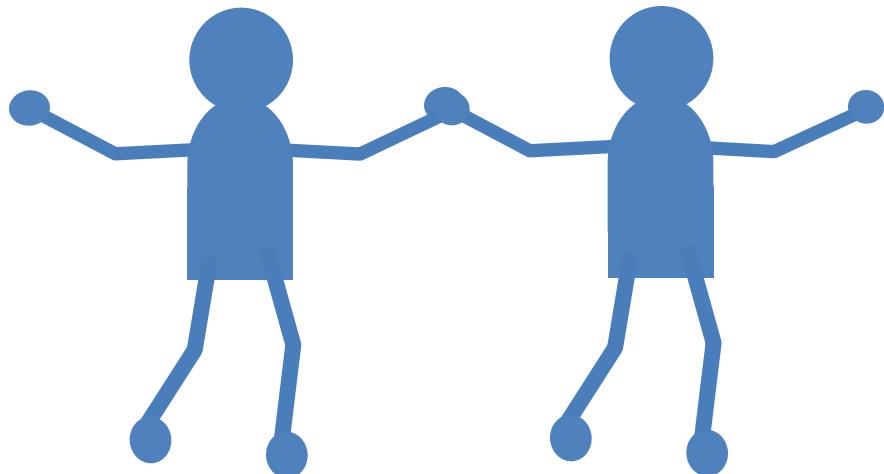


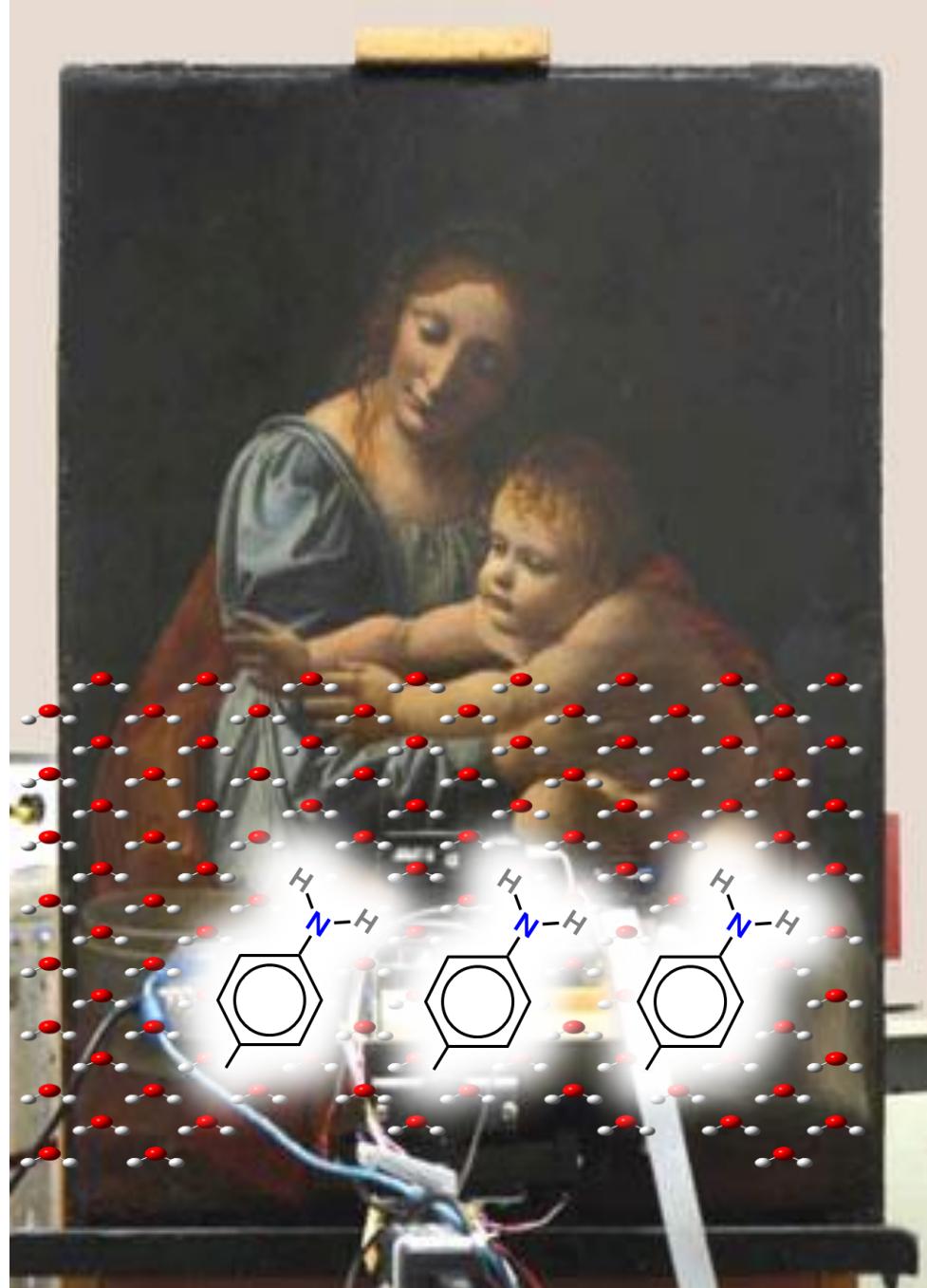
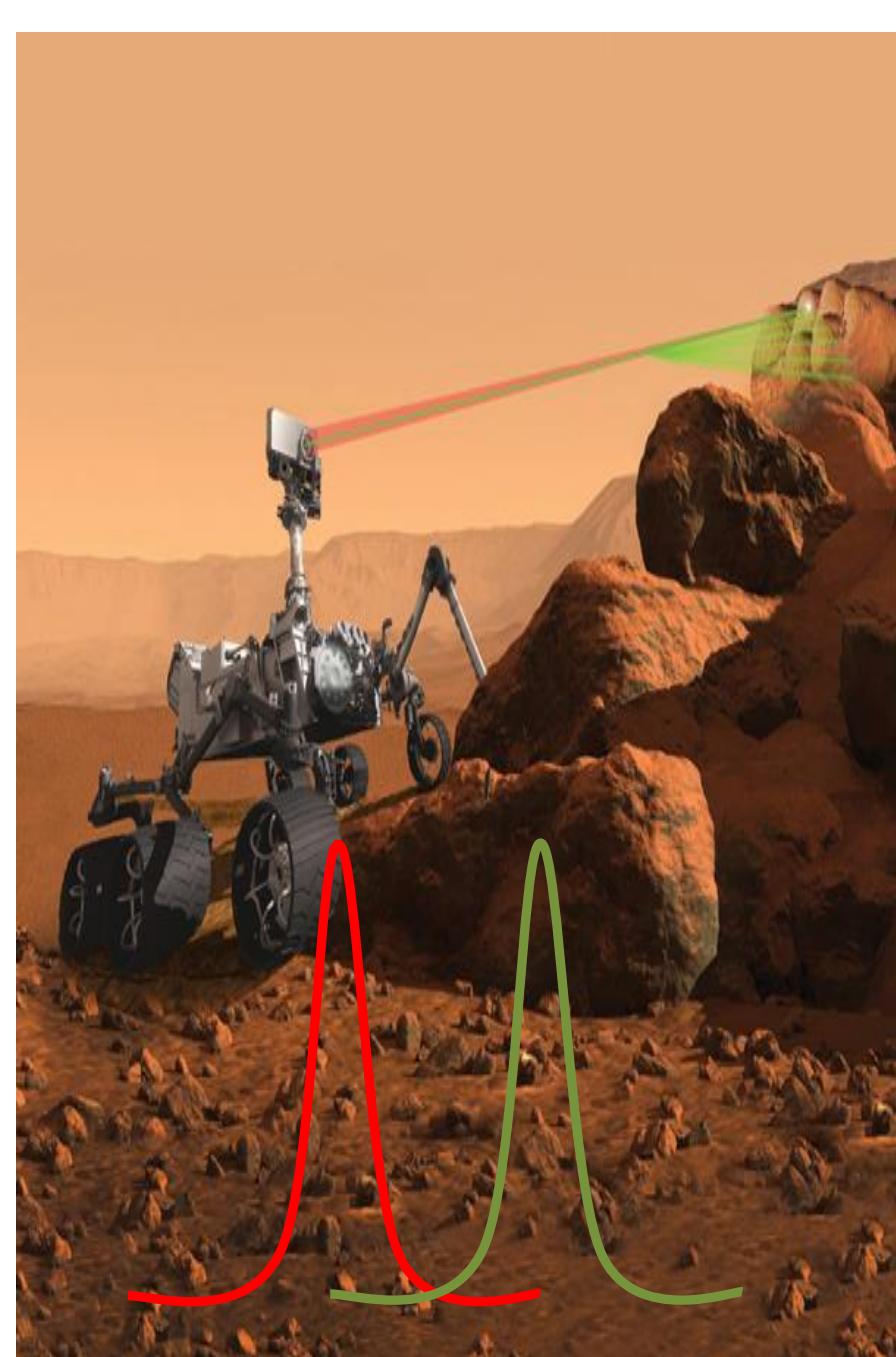


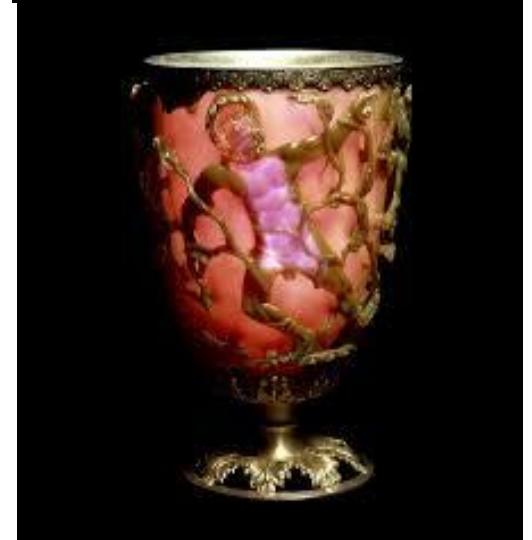
Somewhere beyond the rainbow



Spectral dance



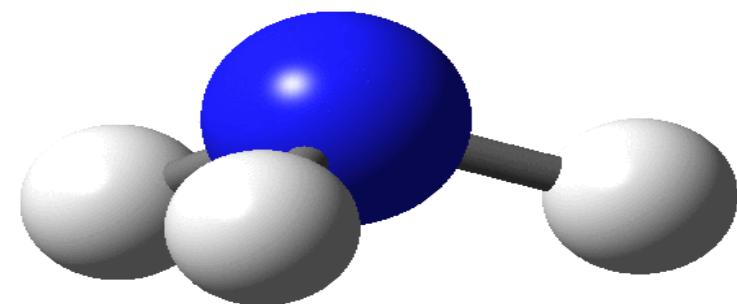




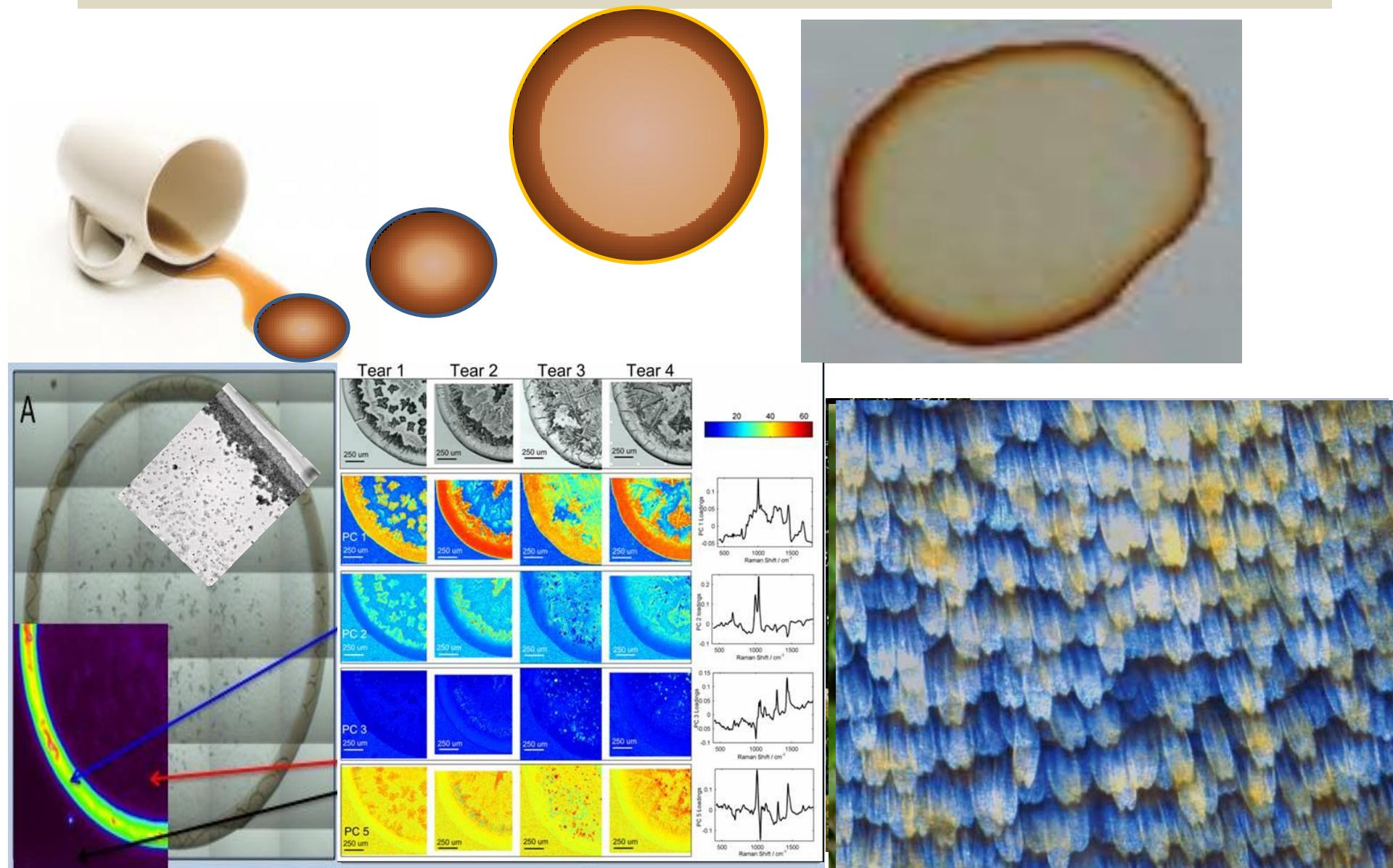
damage to diagnose



The current situation.

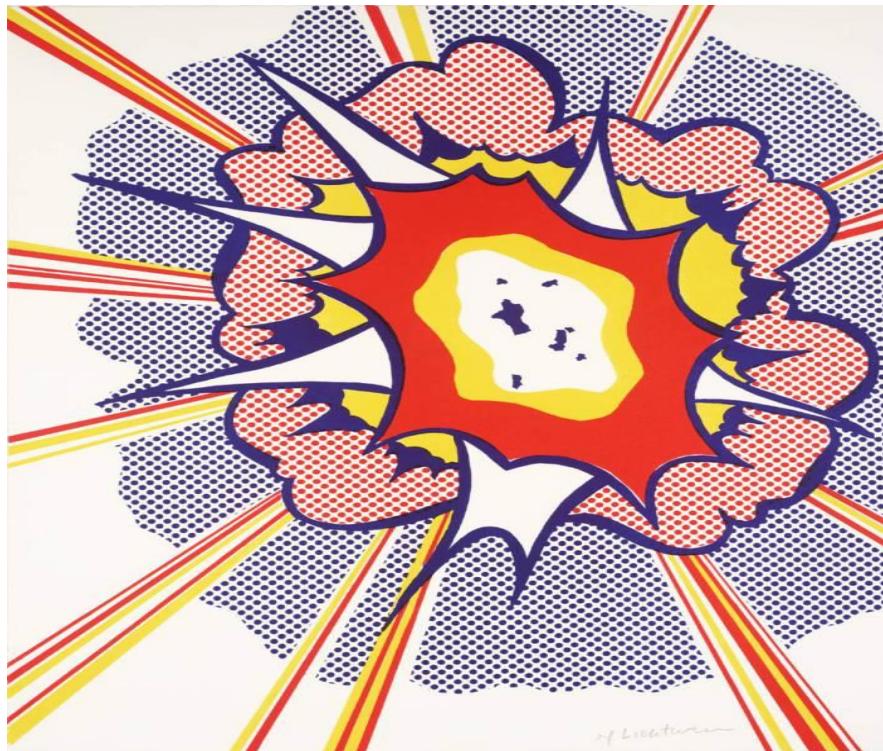


A walk on Minchinhampton Common with a ‘the coffee break’

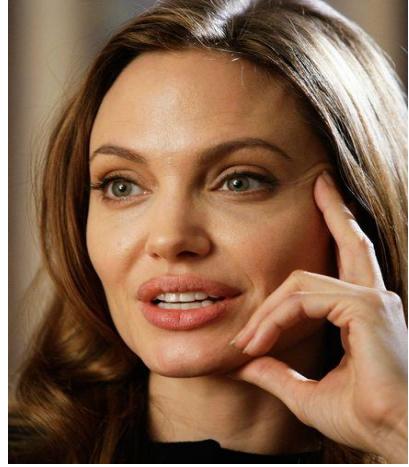


Richard Nixon ‘War on Cancer’

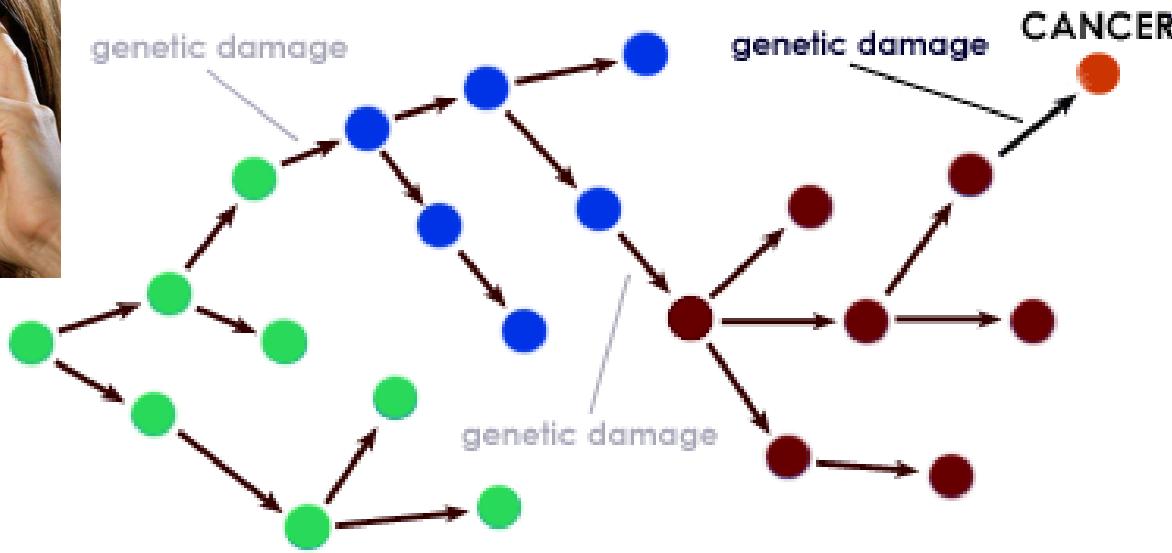
‘it is Afghanistan, it takes all
you got and you still cant win’



‘living with my enemy’?



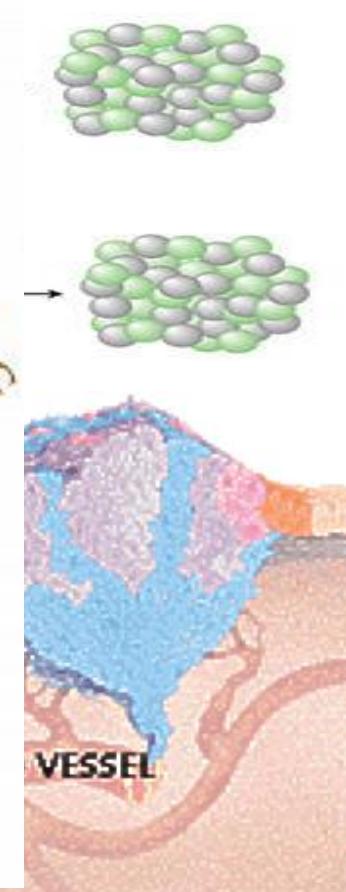
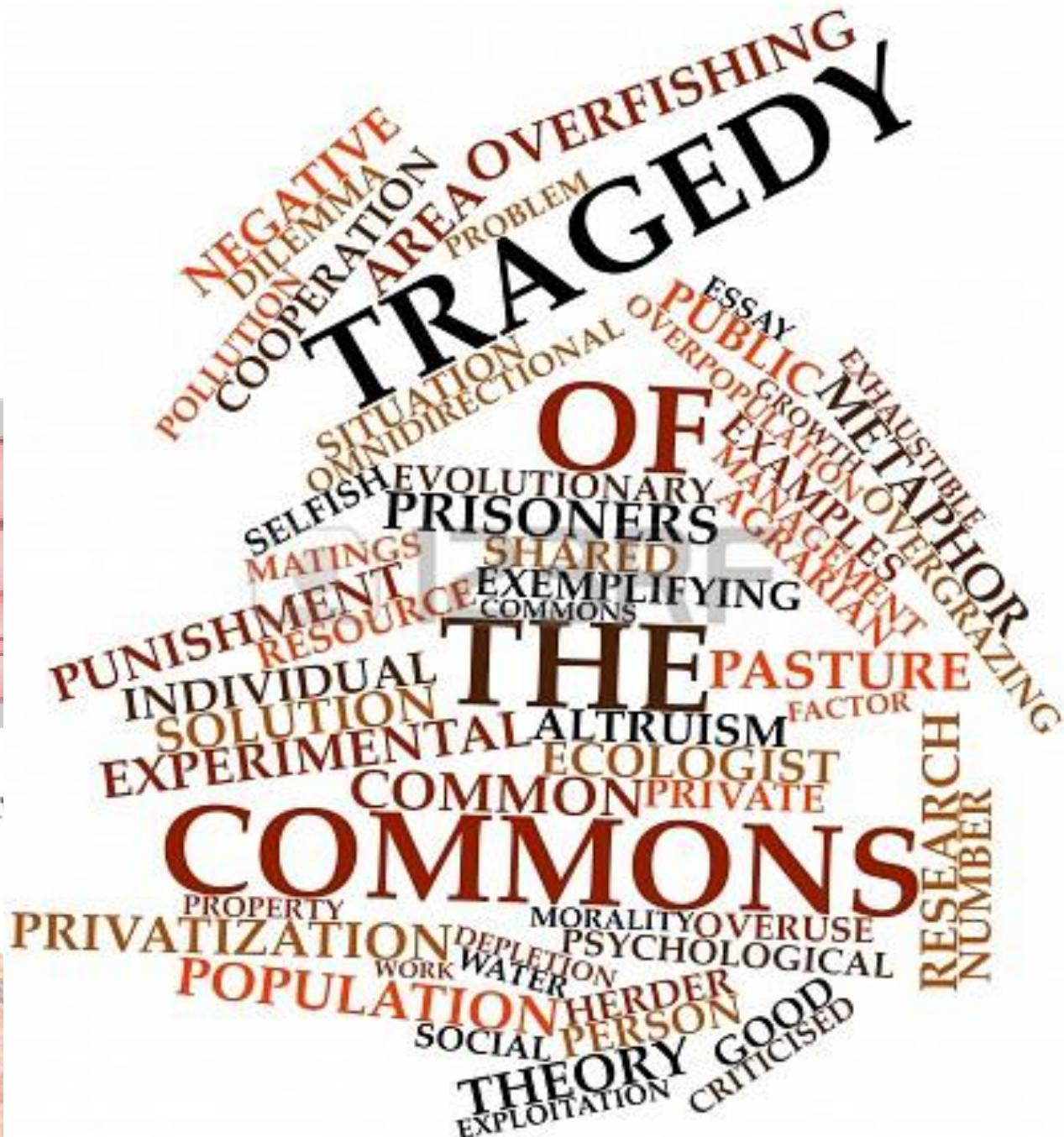
'are your genes your fate'!



- cancer is a competitive system
- *random* variation
- fittest variants survive
- replete with chance

"when a

he



Solution Gardening Grazing



A walk in the Forest of Dean

A walk with the Gloucester cattle

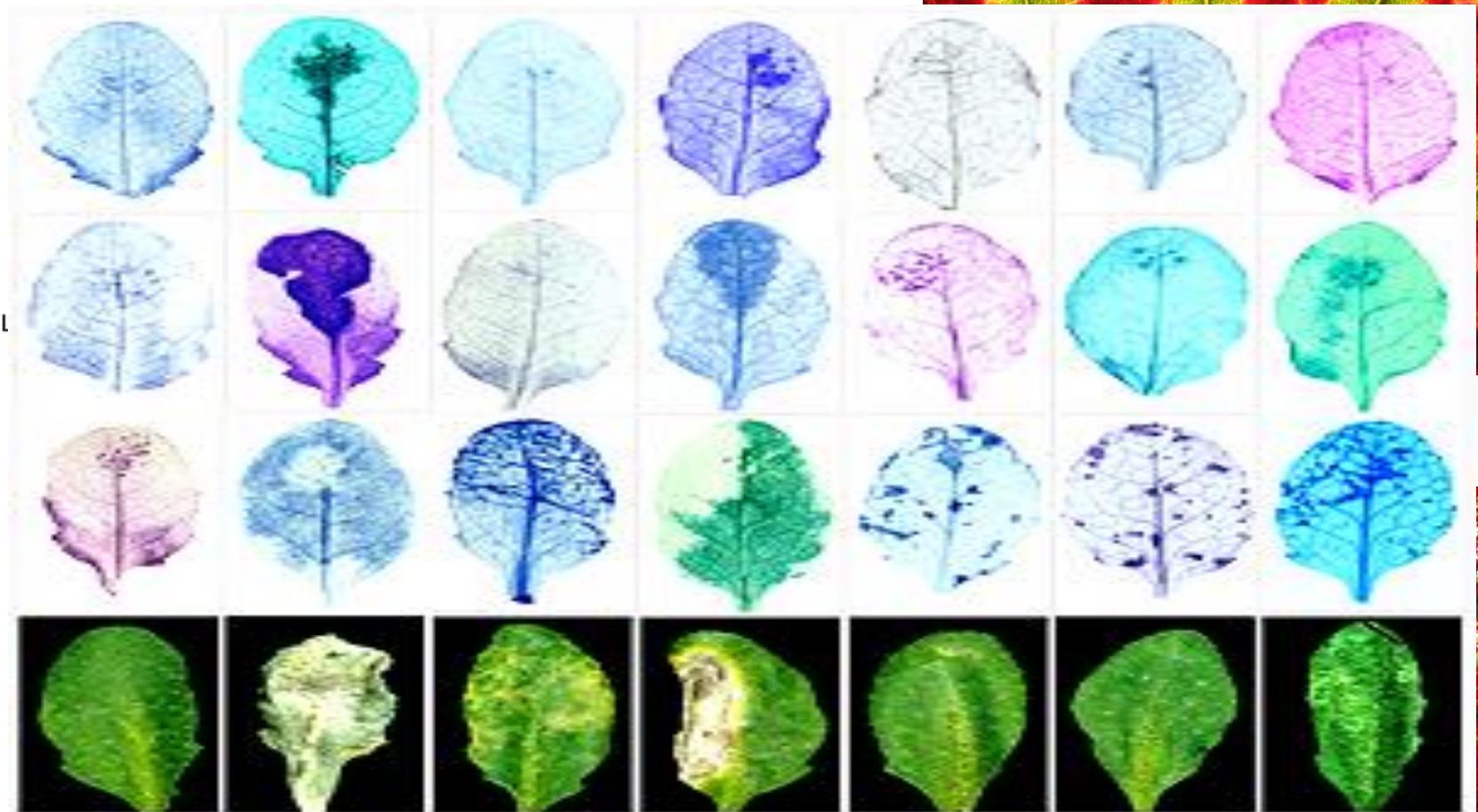
A walk at Highgrove



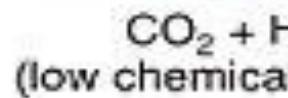
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Founded 1597

A walk in Westonbirt Arboretum.

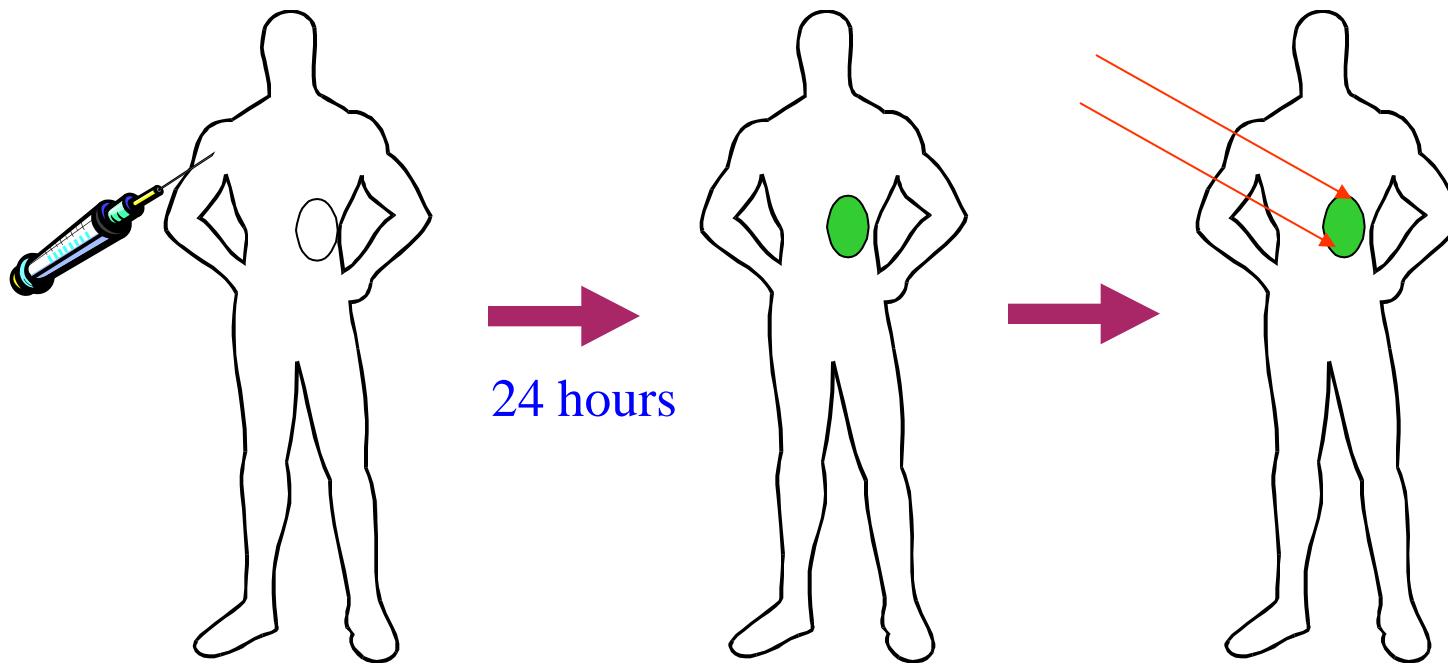


'living in a fuel
tank'



yehi 'or (Let there be light)

Photodynamic therapy (PDT)



Photosensitiser
'light harvesting molecule'

Collects in
'hungry cells'

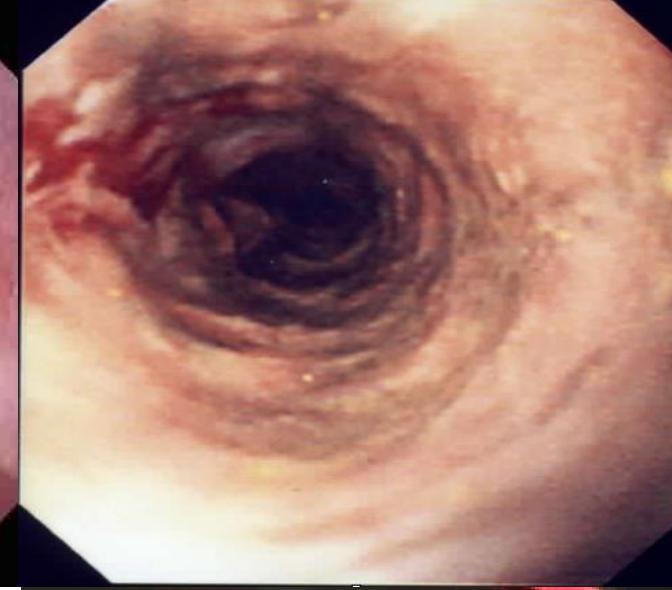
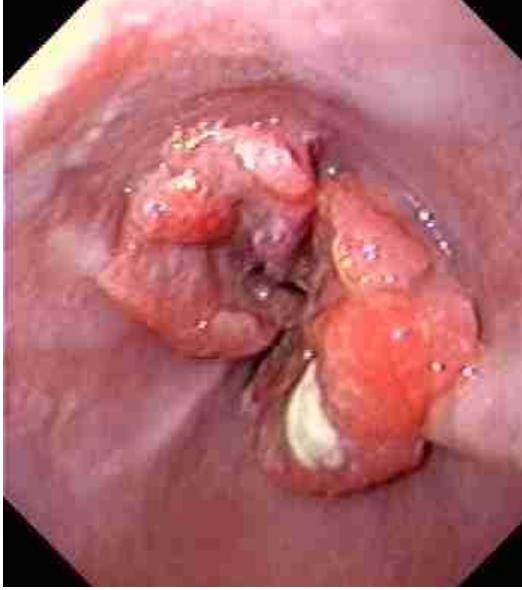
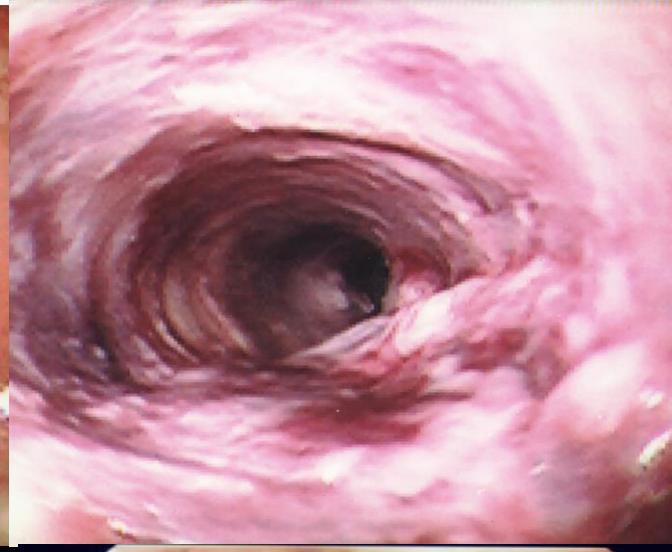
Turned on
by the Light

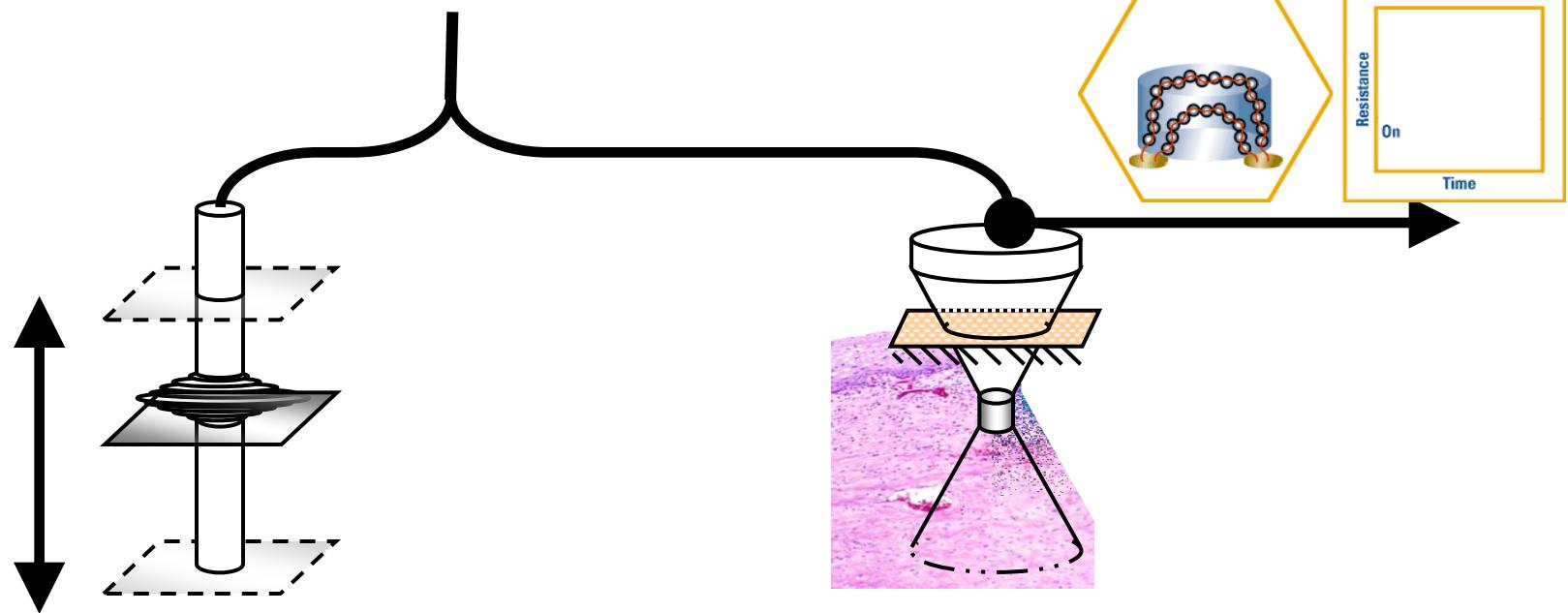
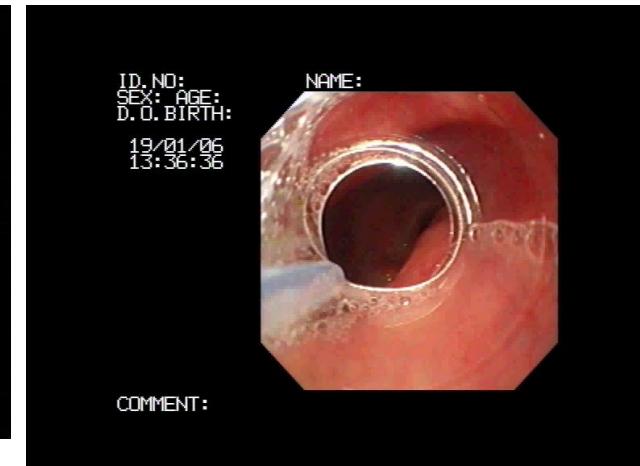
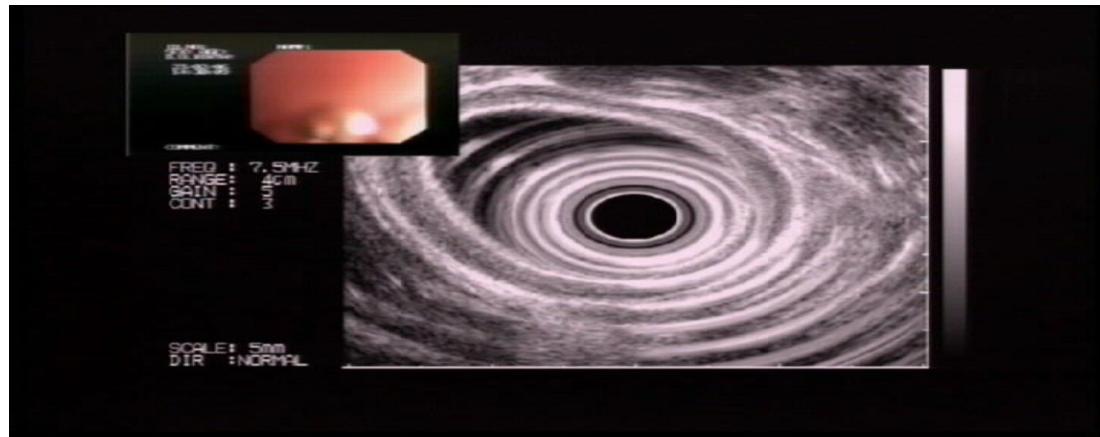


Skin Cancer



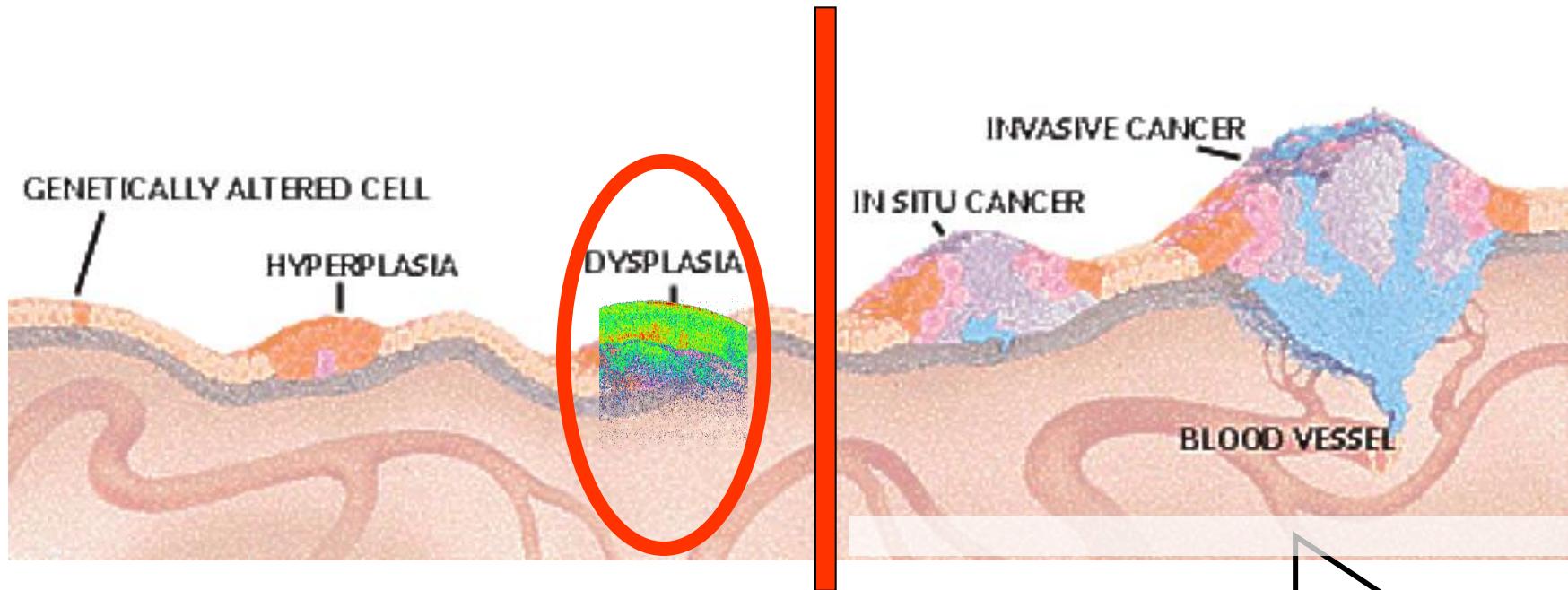
Oesophageal cancer





Patient Pathway: Early Detection results in
Immediate precise complete removal.

The beginning of wisdom
'consider the lilies' Mat 6v28



Prevention of Progression

Thank you

