

23-24 05 2012  
Krakow



**(far) beyond the  
edge...**

Magdalena, Kurnik

“second brain”

?



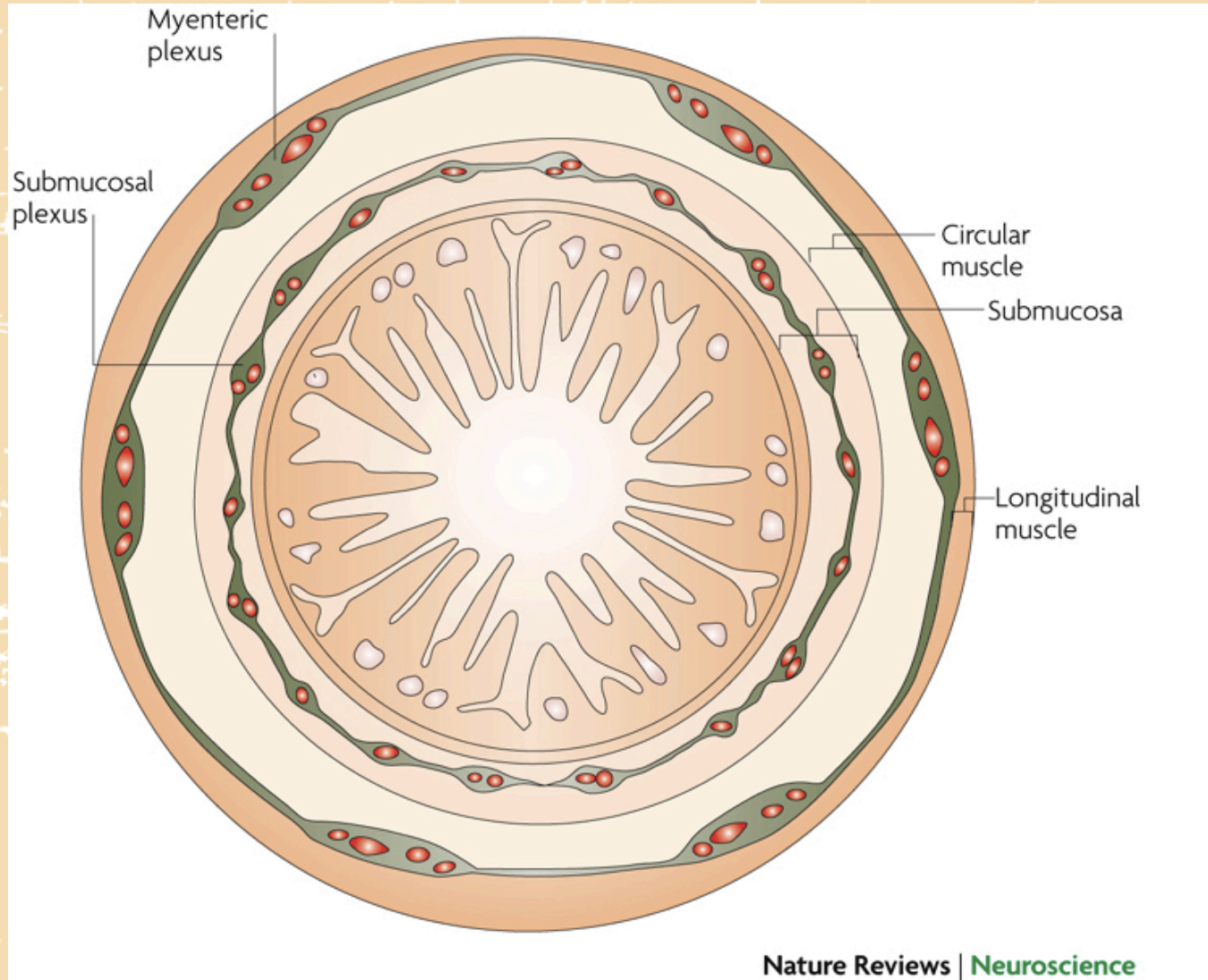
Confidence  
2012



# “second brain”



# “second brain”



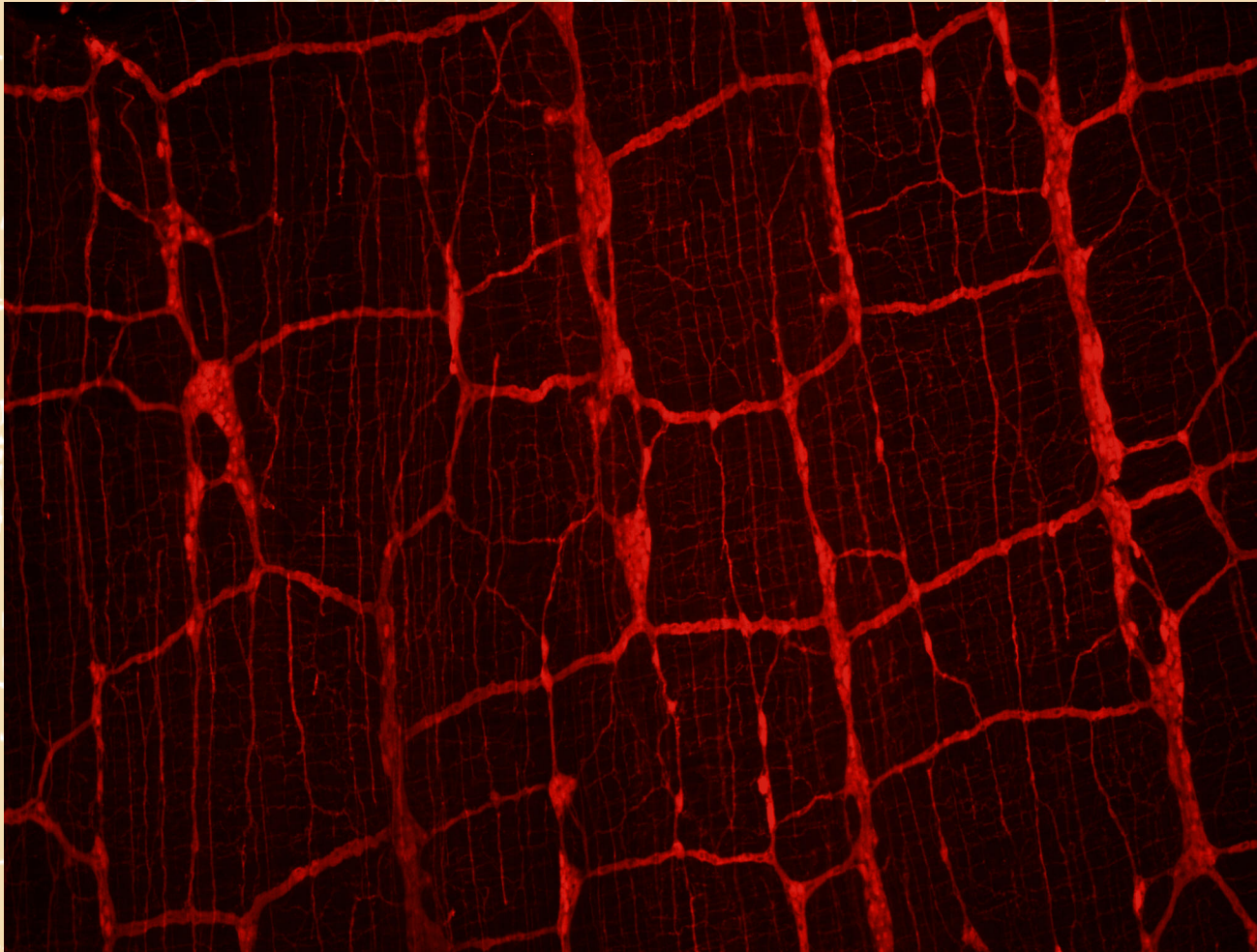
Nature Reviews | Neuroscience



Confidence  
2012



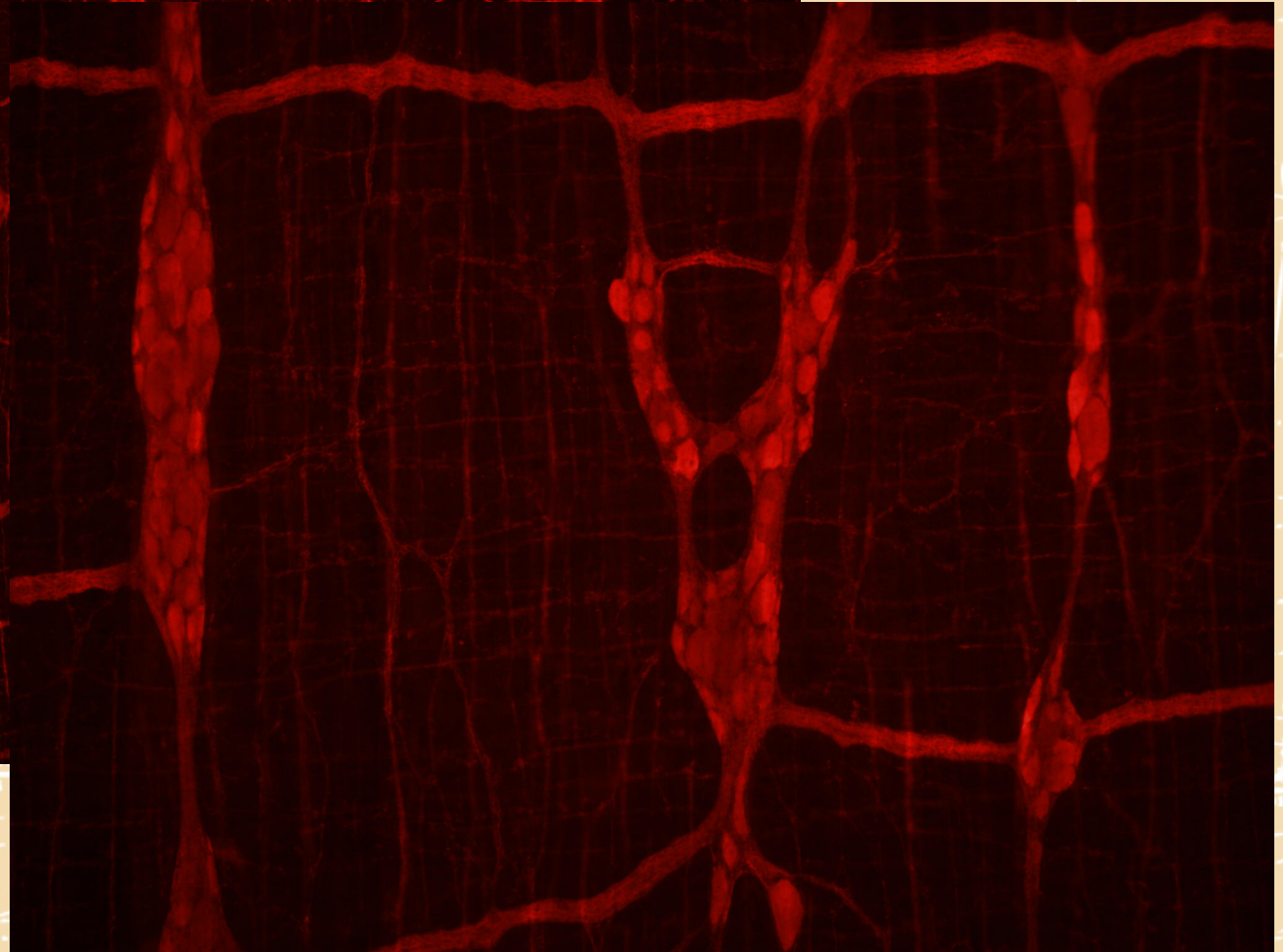
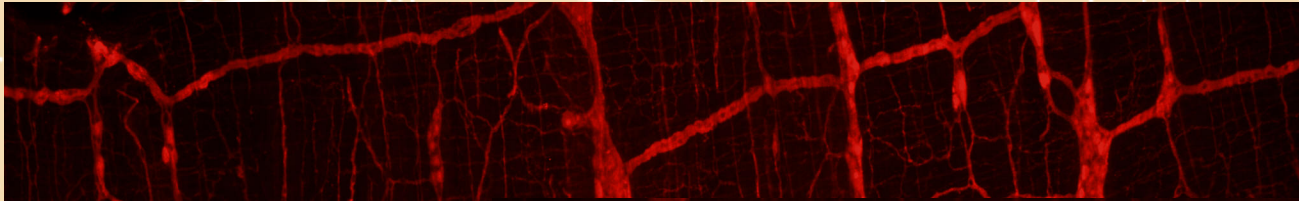
# ENS



**ConfidEncE**  
2012

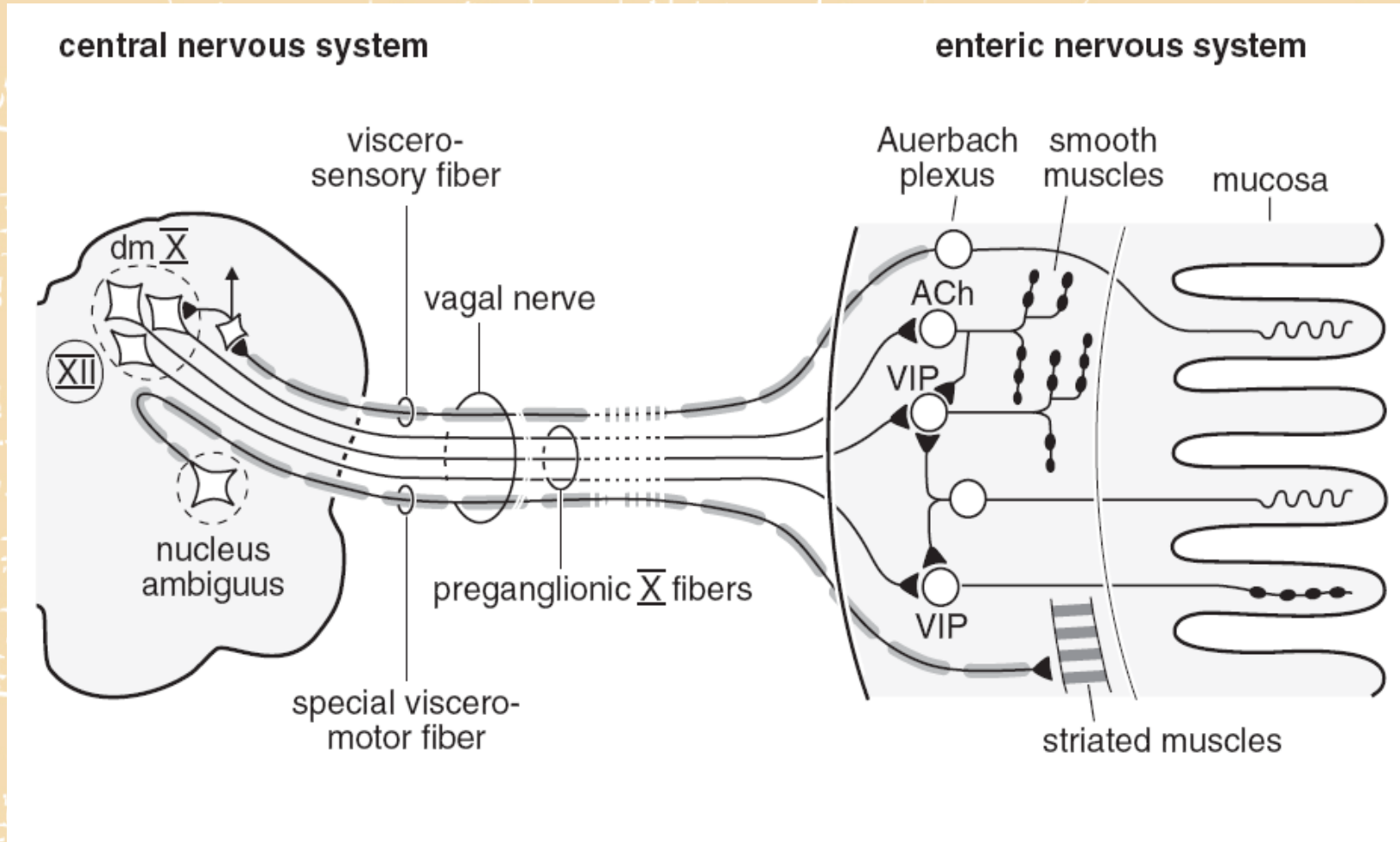


# ENS



ConfidEncE  
2012

# Braak's Hypothesis



--- Braak H. et al. Idiopathic Parkinson's disease: possible routes by which vulnerable neuronal types may be subject to neuroinvasion by an unknown pathogen, 2003 ---

--- Hawkes C.H. et al. Review: Parkinson's disease: a dual hit hypothesis, 2007 ---



Confidence  
2012



# Hacker (?)

Hacker (computer security) or *cracker*, who accesses a computer system by circumventing its security system

Hacker (hobbyist), who makes innovative customizations or combinations of retail electronic and computer equipment

Hacker (programmer subculture), who shares an anti-authoritarian approach to software development now associated with the free software movement





# Confidence

is generally described as a state of being certain either that a hypothesis or prediction is correct or that a chosen course of action is the best or most effective



# Safety

the condition of being protected against physical, social, spiritual, financial, political, emotional, occupational, psychological, educational or other types or consequences of failure, damage, error, accidents, harm or any other event which could be considered non-desirable

the control of recognized hazards to achieve an acceptable level of risk. This can take the form of being protected from the event or from exposure to something that causes health or economical losses





# Health

The World Health Organization (1946)

"a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity"



Confidence  
2012

- In 2000, an estimated 9.6 million children aged less than 5 years died worldwide, from pneumonia, prematurity, diarrhoeal disease, malaria, measles. By 2010, annual child deaths had been reduced to 7.6 million.
- Somewhere in the world every two minutes, a woman dies from pregnancy or childbirth-related causes. One third of all these maternal deaths take place in just two countries: India with 20% and Nigeria with 14% of the global total deaths.
- Worldwide, 2.8 million people die each year as a result of being overweight or obese. Between 1980 and 2008, the worldwide prevalence of obesity (body mass index  $\geq 30$  kg m<sup>2</sup>) almost doubled.





A new report on the Health Behaviour in School-aged Children (HBSC) study, published by the WHO Regional Office for Europe (May, 2012)

<http://www.euro.who.int/en/what-we-publish/information-for-the-media/sections/latest-press-releases/who-report-reveals-teenagers-do-not-get-a-fair-deal-on-health>



# Cancer – key facts

- Cancer is a leading cause of death worldwide, accounting for 7.6 million deaths (around 13% of all deaths) in 2008.
- Lung, stomach, liver, colon and breast cancer cause the most cancer deaths each year.
- About 70% of all cancer deaths in 2008 occurred in low- and middle-income countries.
- Deaths from cancer worldwide are projected to continue rising, with an estimated **13.1 million** deaths in 2030.





# Risk factors for cancer

- tobacco use
- chronic infections with viruses such as hepatitis B (liver cancer) and human papilloma (cervical cancer)
- being overweight or obese
- radiation
- some dietary factors
- physical inactivity
- harmful use of alcohol
- some occupational exposures
- various environmental chemicals



- In 2009, average per capita expenditures varied substantially from US\$ 25 in low-income countries to US\$ 4692 in high-income countries.
- The High Level Taskforce on Innovative International Financing for Health Systems suggested that, on average, a low-income country would have to spend a minimum of US\$ 44 per capita to ensure all people had access to a set of essential health services. However, 29 countries spent less than this minimum recommended amount...





**...concussions?!**

**...perspectives?!**

**...resolutions?!**



**ConfidEncE**  
2012

23-24 05 2012  
Krakow



**Thank you**