

Uso delle alternative alla sperimentazione animale per la gestione sostenibile delle sostanze chimiche

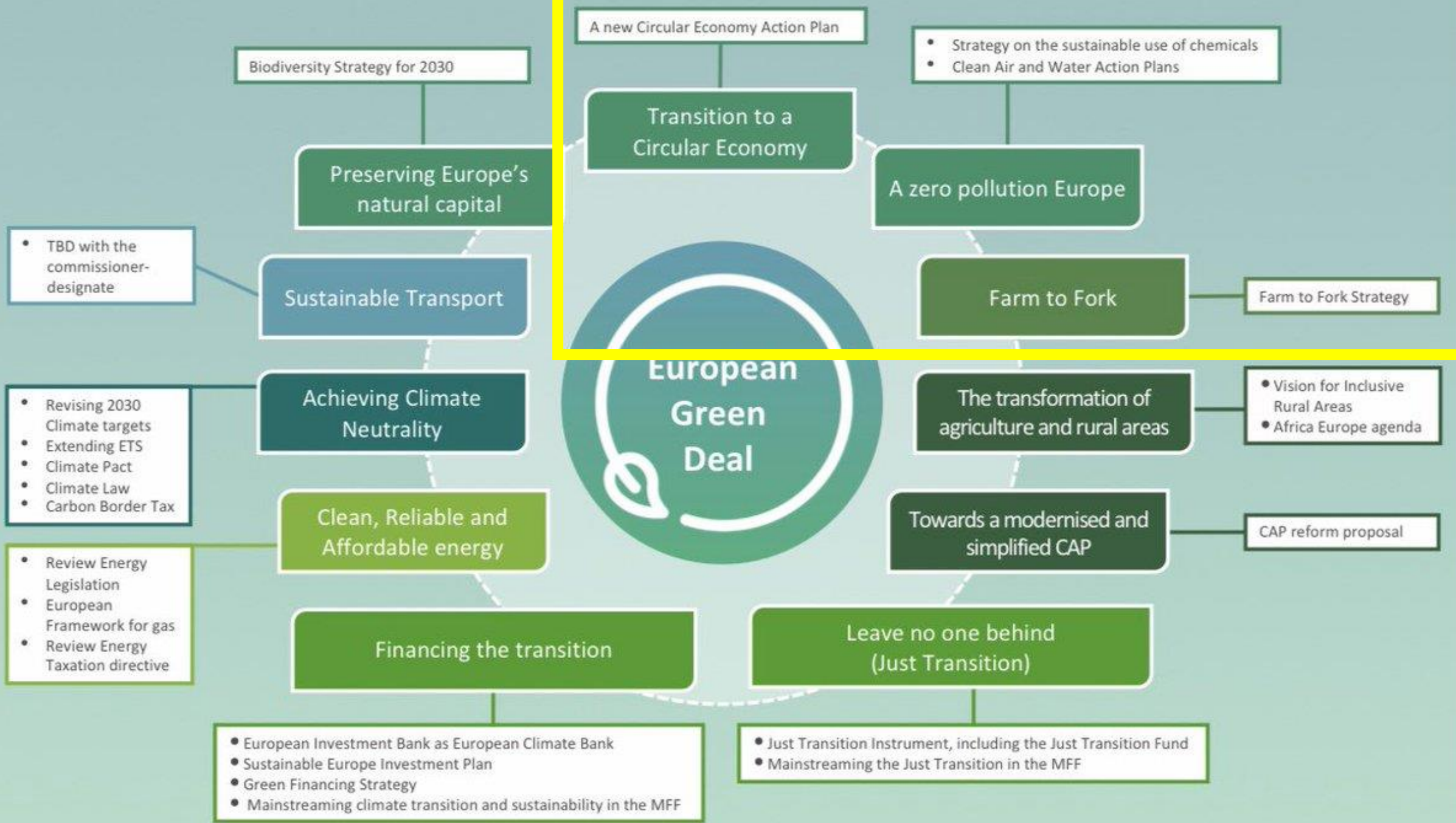
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14 novembre 2023



Know the rules, play your market.

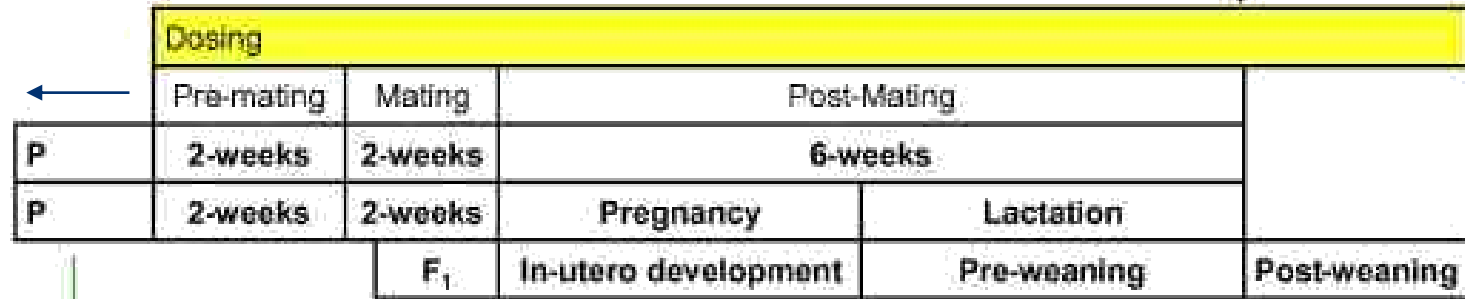


Esempio di test in vivo: Reproductive Toxicity (OECD 443)

Limite max consigliato: 1000 mg / Kg bw = 1 g / Kg bw

Necropsy
P animals

often longer (10 weeks)



Parental generation	Cohort	Designation	Animals/Cohort	Sexual maturation	Approximate age at necropsy (weeks)
Target is 20 litters per group	1A	Reproductive	20M + 20F	Yes	13
	1B	Reproductive	20M + 20F	Yes	14 or 20-25 if triggered
	2A	Neurotoxicity	10M + 10F @	Yes	11-12
	2B	Neurotoxicity	10M + 10F @	No	3
	3	Immunotoxicity	10M + 10F @	Yes	8
	Surplus	Spares		No	3

@ one per litter and representative of 20 litters in total where possible

Extended One Generation Reproductive Toxicity Study (EOGRTS) - OECD TG 443



Tempo necessario per un test: ~ 2 years

Costo: ~ 800,000€

Laboratori nella UE: ~22 CROs

Capacità annuale: ~ 50 sostanze / anno

DISSEMINATION
PLATFORM

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

Registered Substances Factsheets

Substances which have been registered and can be placed on the EEA market by those companies with a valid registration

ALL SUBSTANCES

REGISTRANTS/SUPPLIERS

ABOUT

Numero di registrazioni: ~ 27,000

Quanti test per reproductive toxicity? 1,975

How many years to test all? : ~ 500

Pagina 1 di 538

50 Elementi per Pagina

Mostrati 1 - 50 su 26.866 risultati.

← Primo

Precedente

Successivo

Ultimo →

Il caso dell'autismo

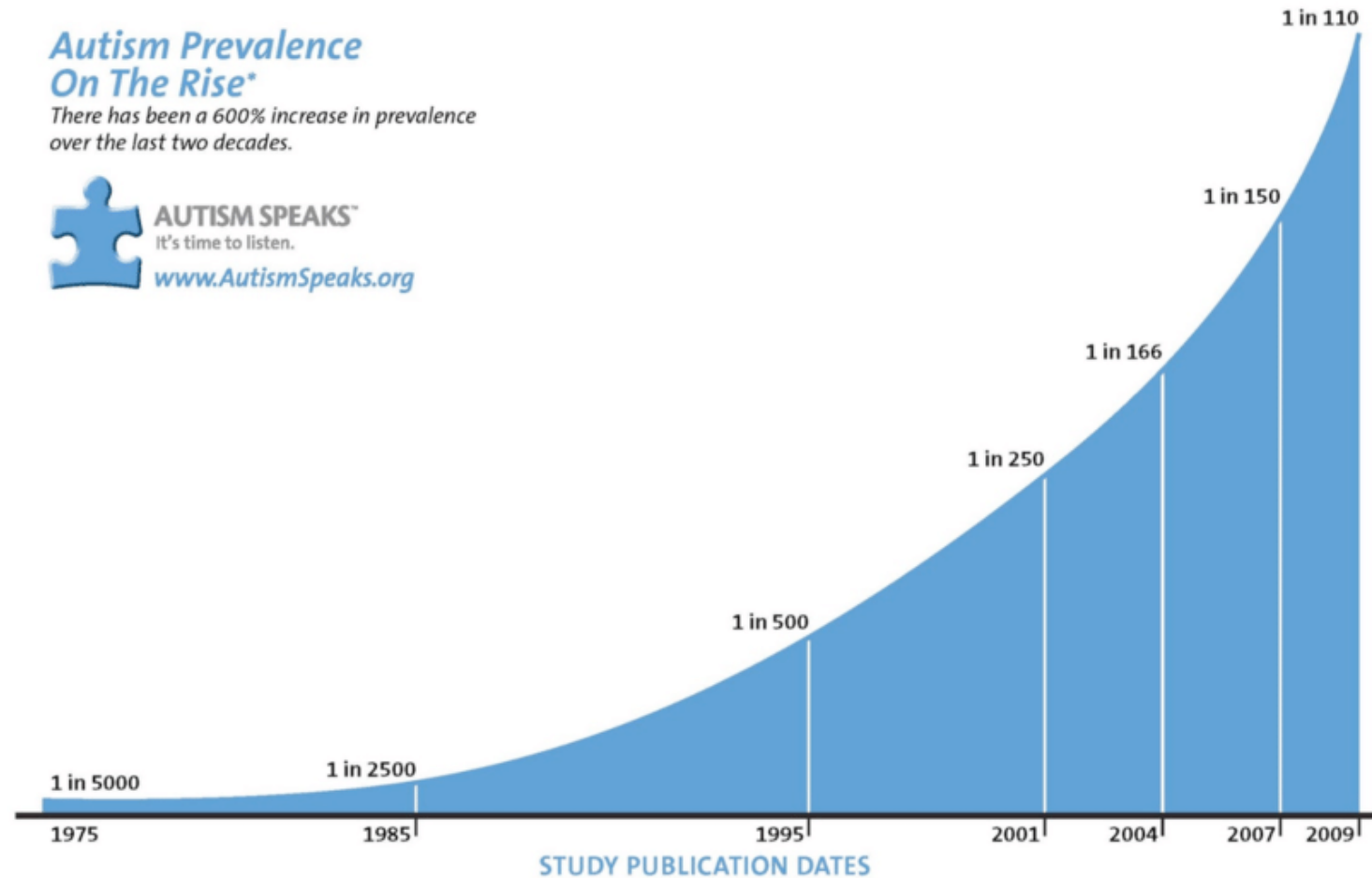
Autism Prevalence On The Rise*

There has been a 600% increase in prevalence over the last two decades.



AUTISM SPEAKS™
It's time to listen.

www.AutismSpeaks.org

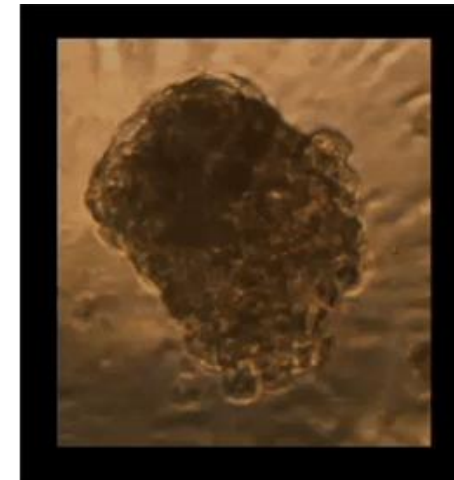
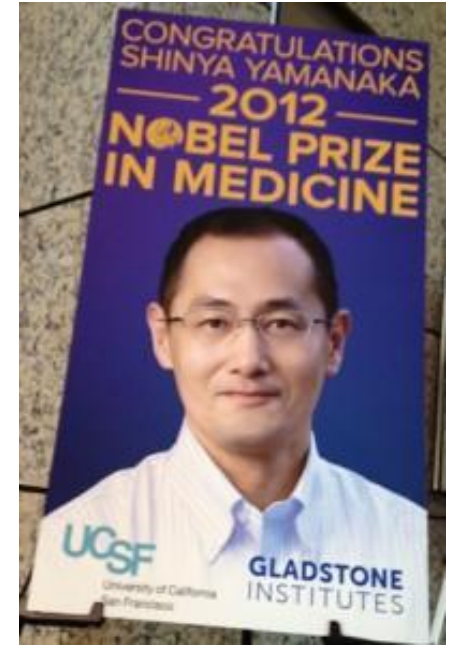
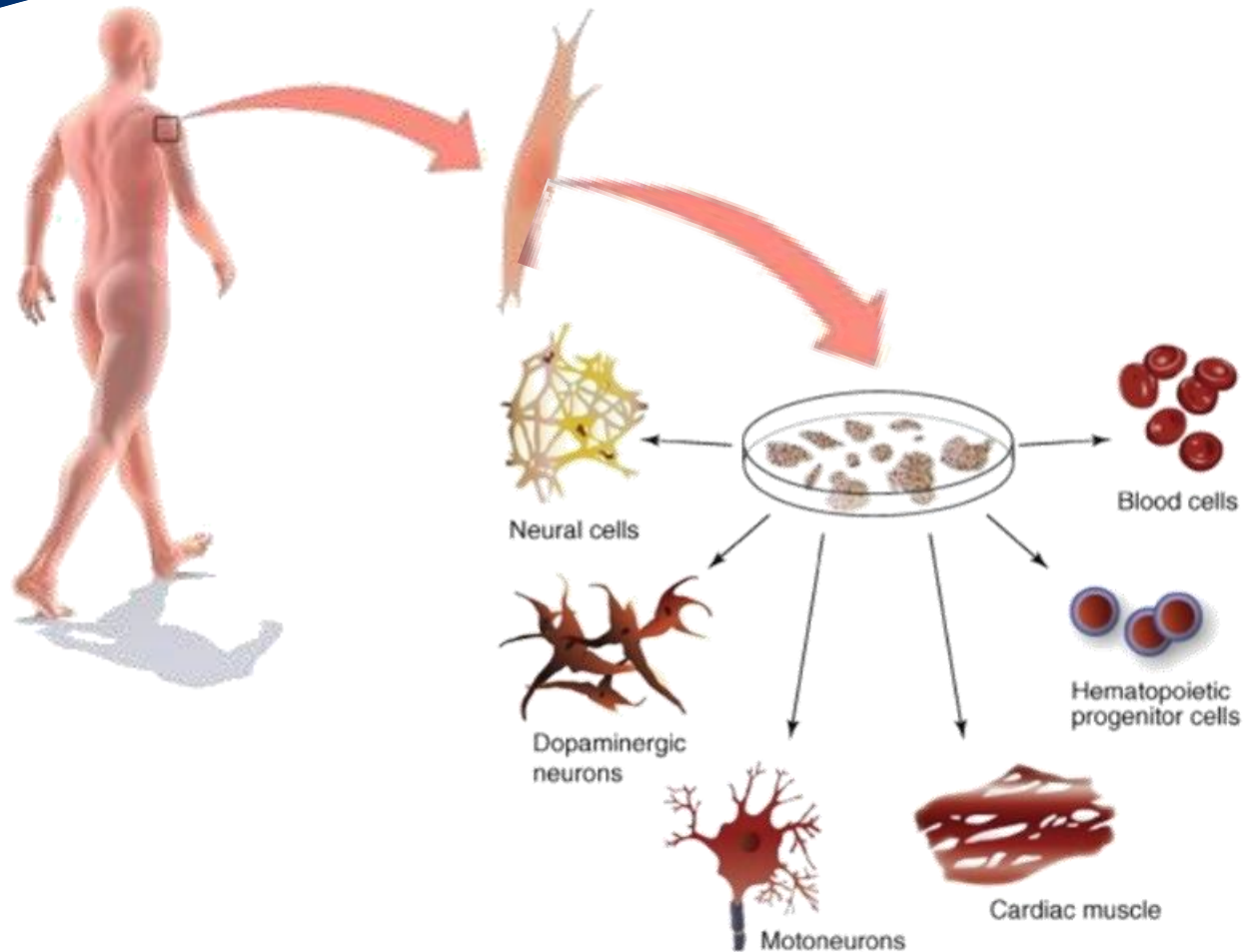


*Recent research has indicated that changes in diagnostic practices may account for at least 25% of the increase in prevalence over time, however much of the increase is still unaccounted for and may be influenced by environmental factors.

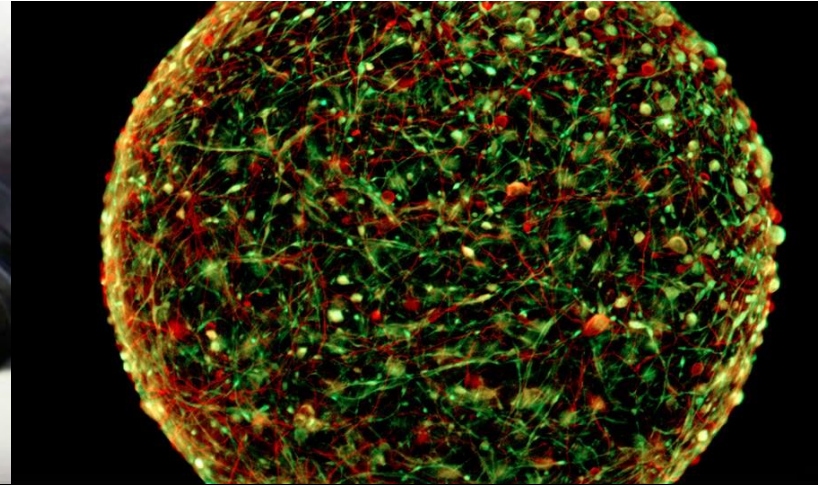
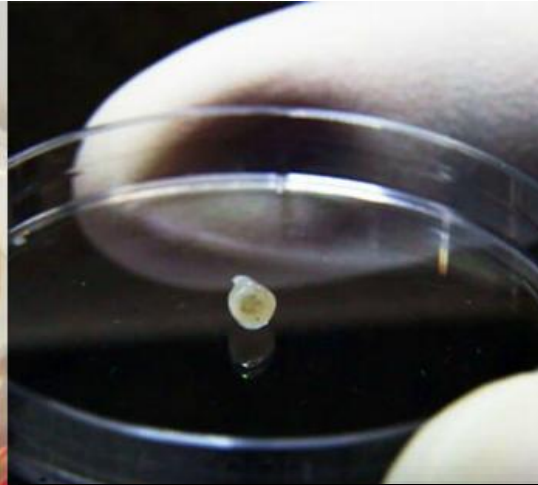
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**Nel 2022,
1 su 44**

Utilizzo di cellule staminali adulte

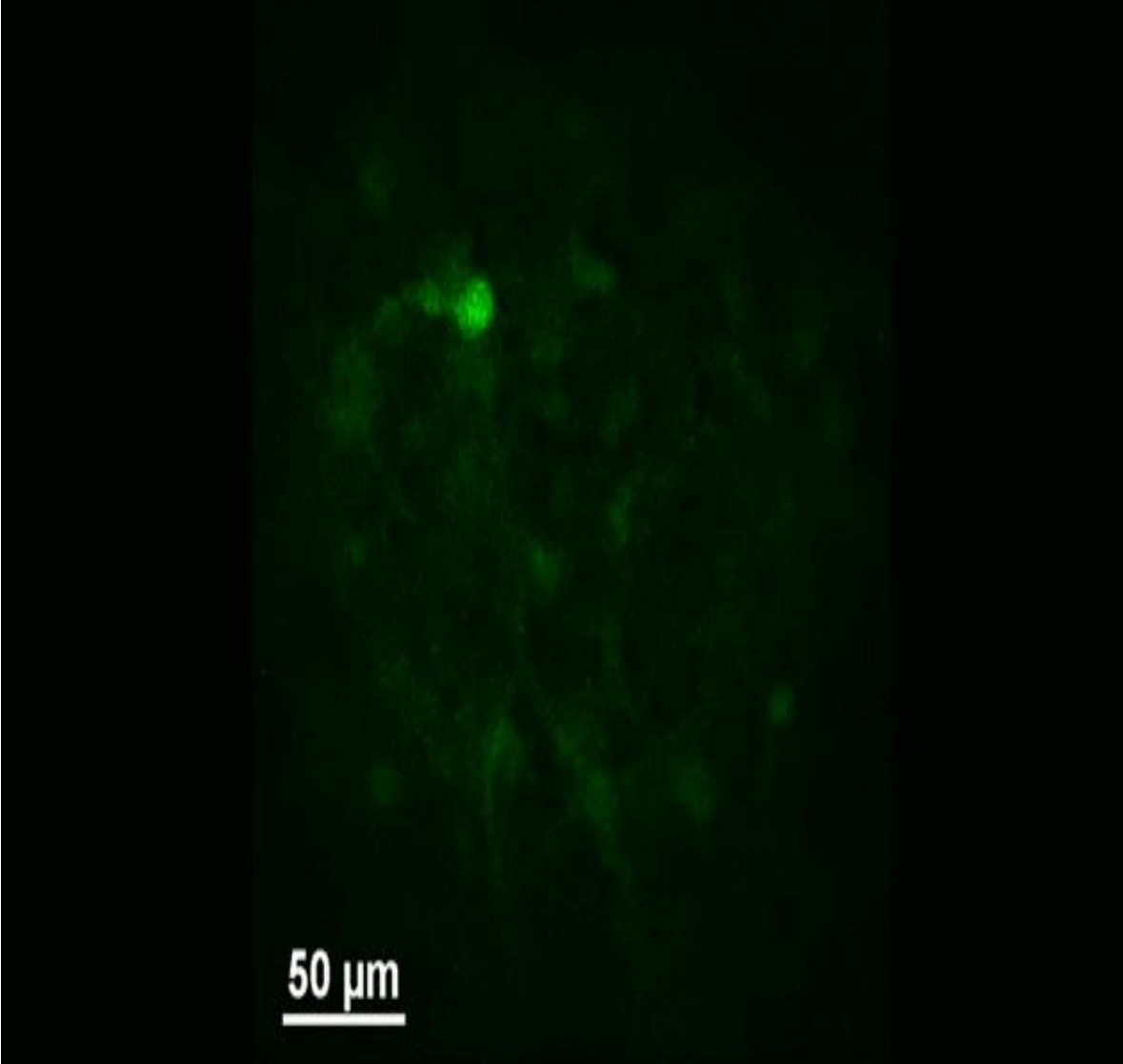
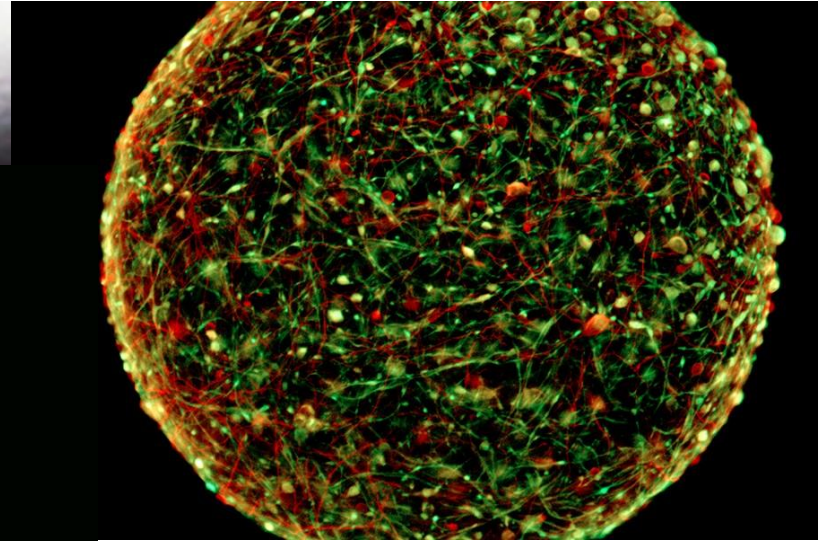


Mini-brains



Hogberg et al., Stem Cell Res 20
Pamies et al., Exp Biol Med 2014
Pamies et al., Altex 2017

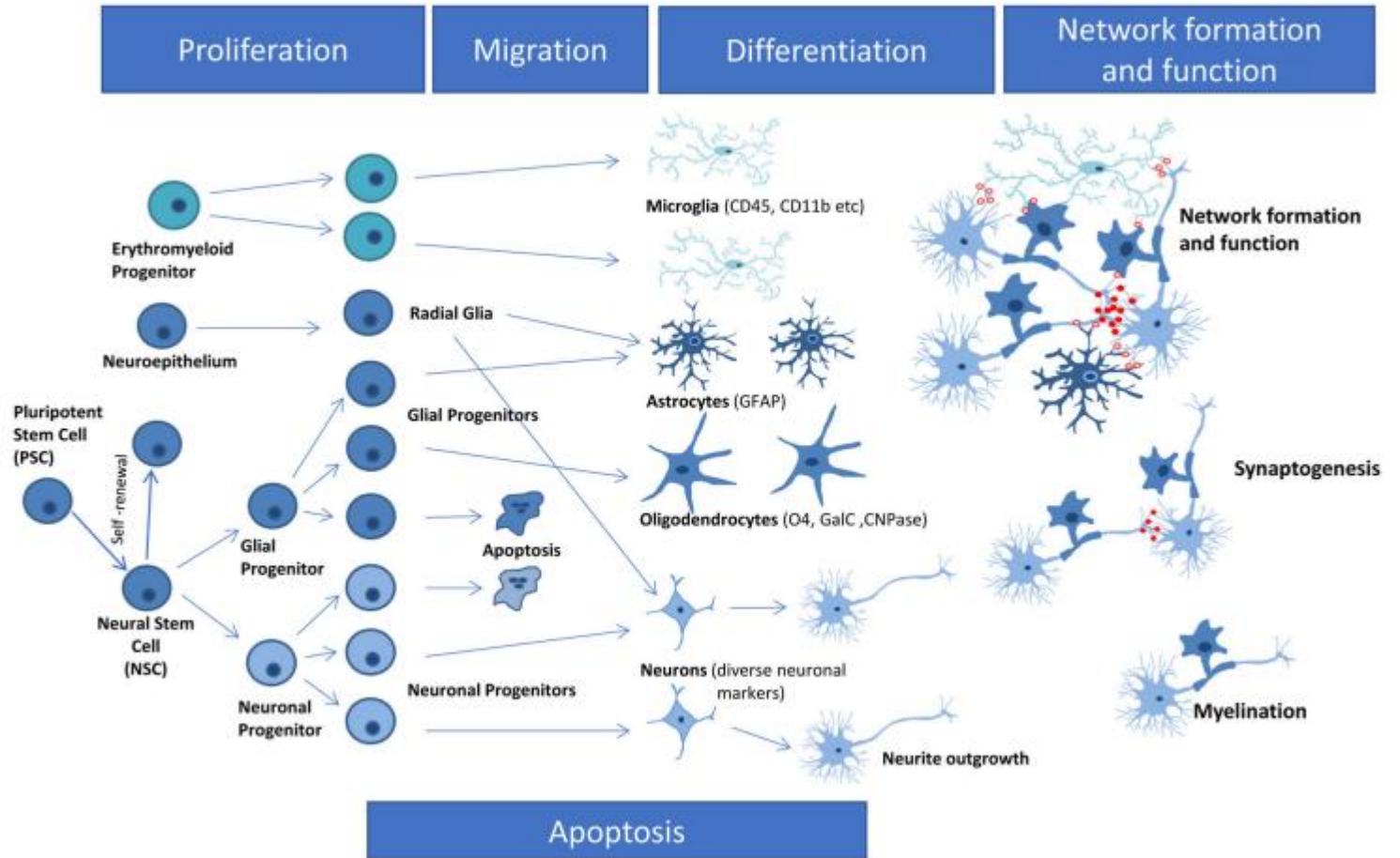
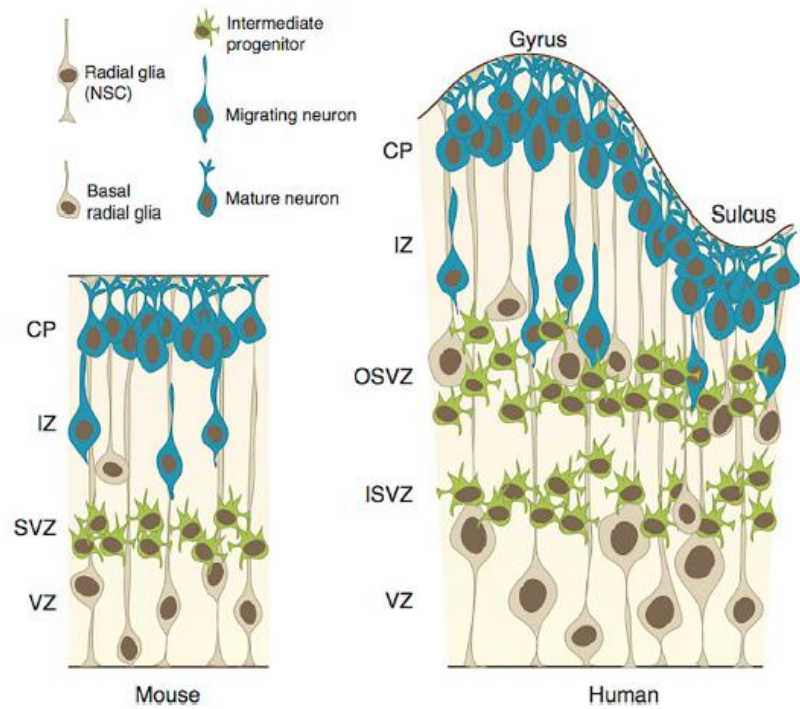
Mini-brains



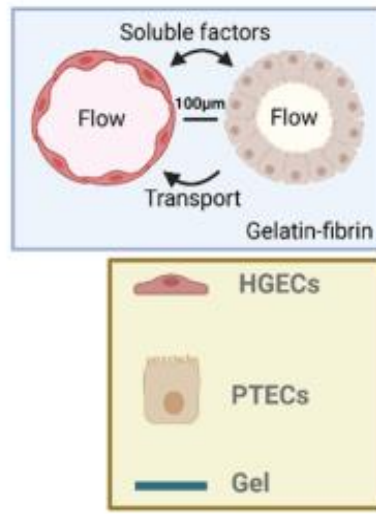
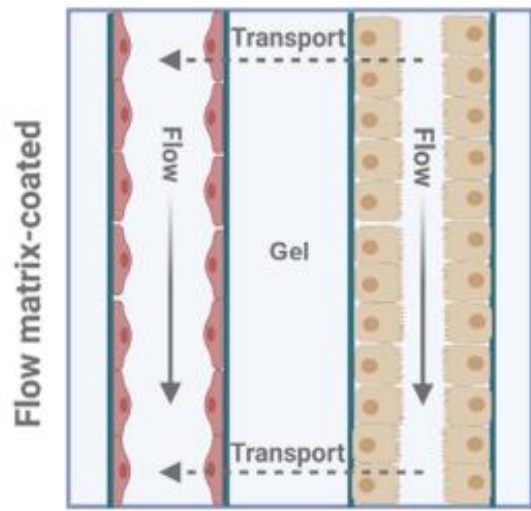
50 μm



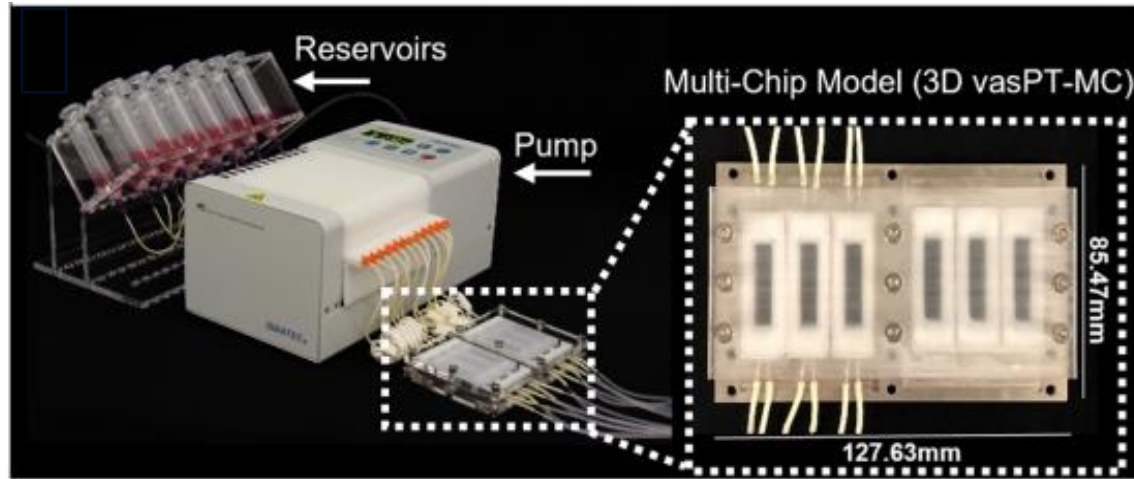
Passaggi fondamentali per lo sviluppo del cervello



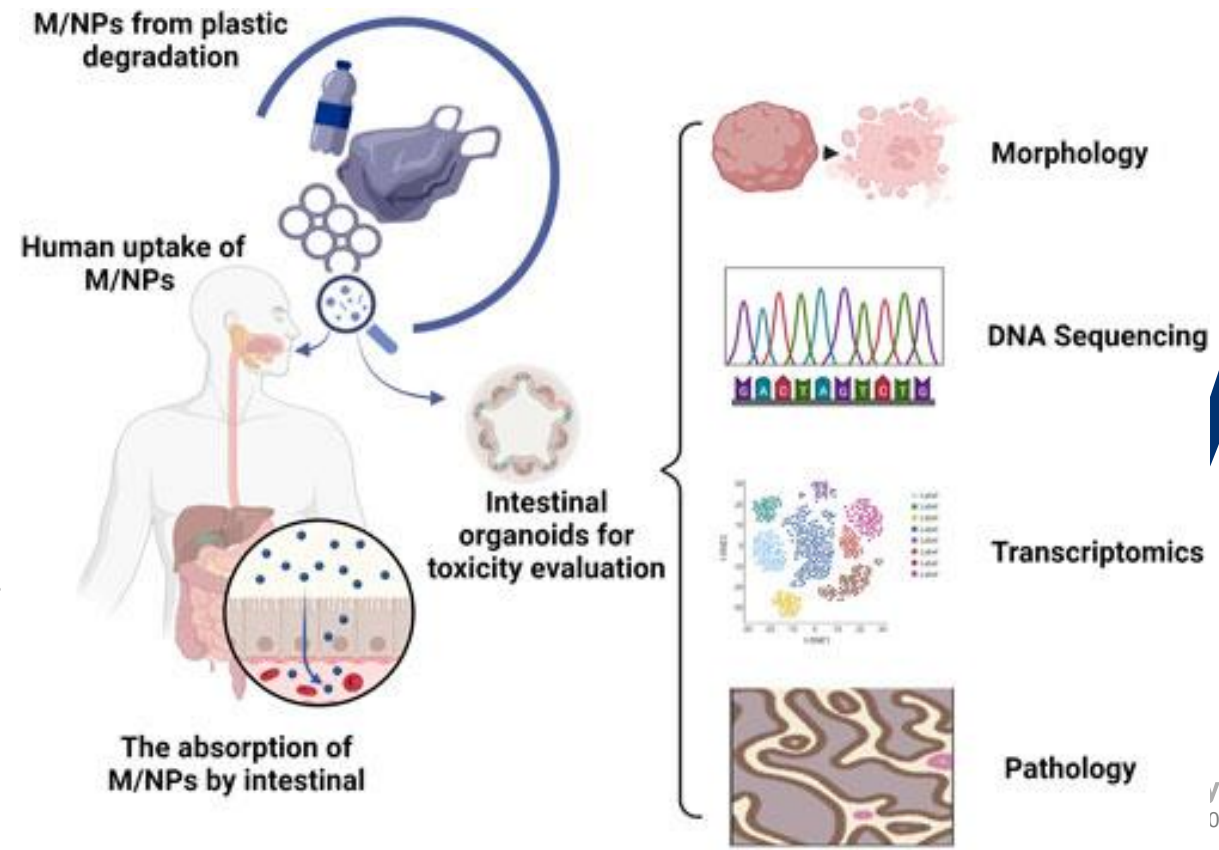
- Neural stem cells (NSCs)
- Ventricular zone (VZ)
- Subventricular zone (SVZ)
- Inner and Outer SVZ (ISVZ and OSVZ)
- Intermediate zone (IZ)
- Cortical plate (CP)



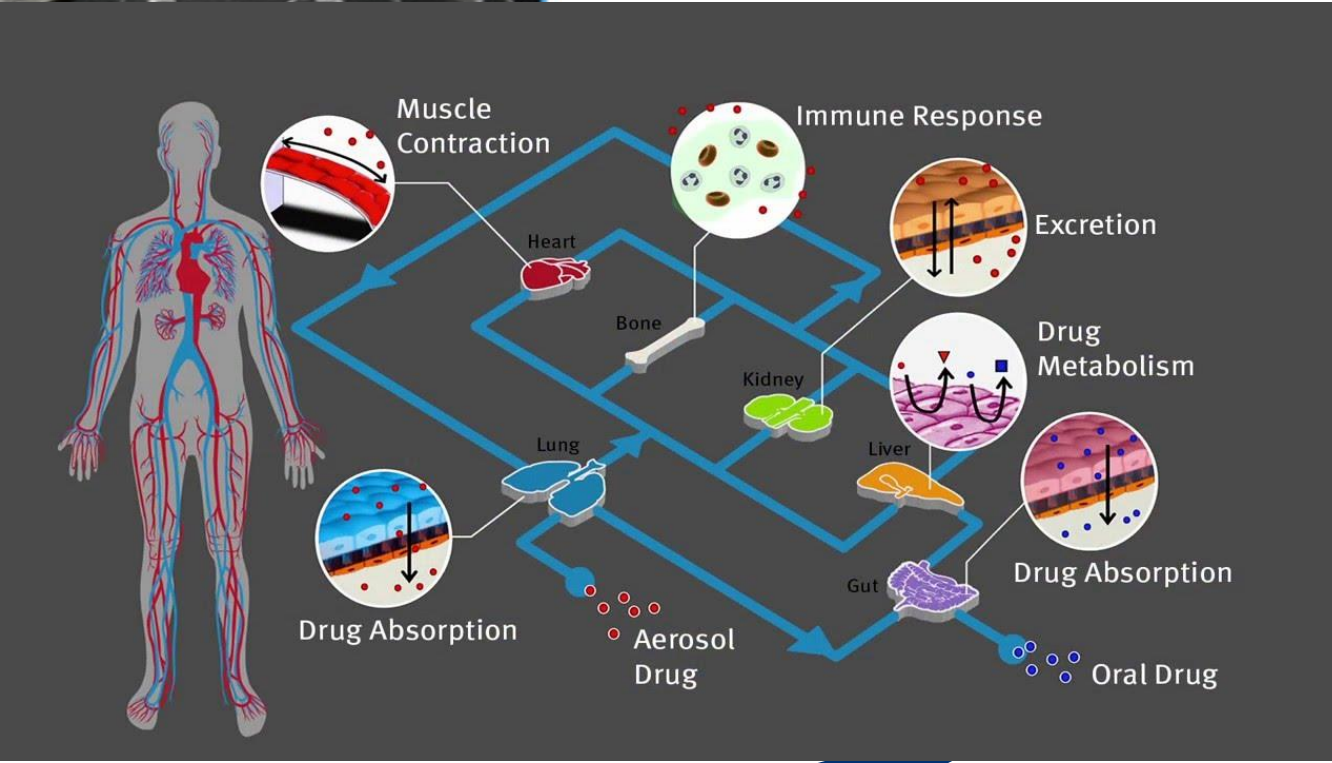
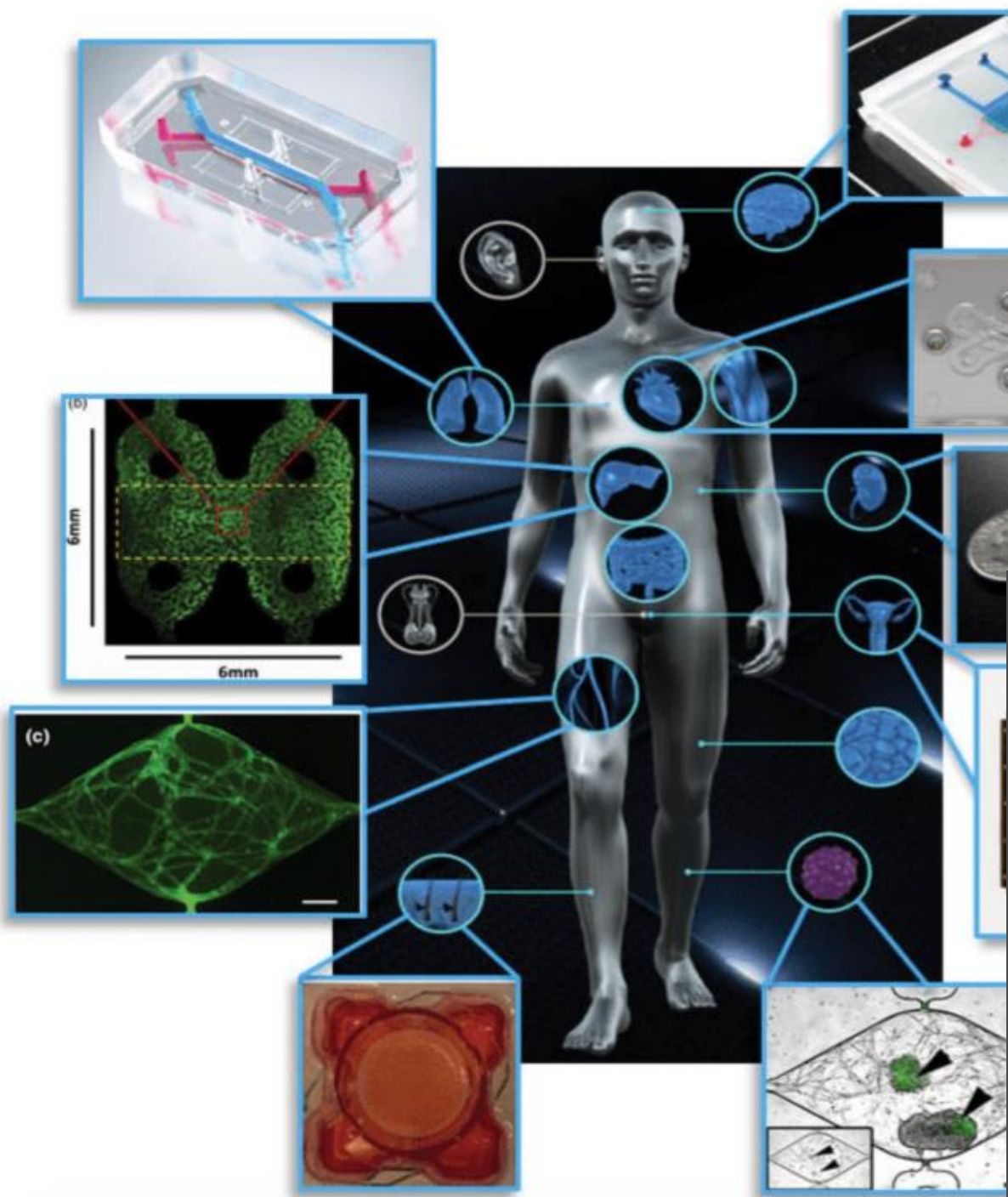
From Wyss Institute at Harvard University proximal tubule epithelial cells (PTECs) and glomerular endothelial cells (HGECs) grown in a 3D vascularised tubule model



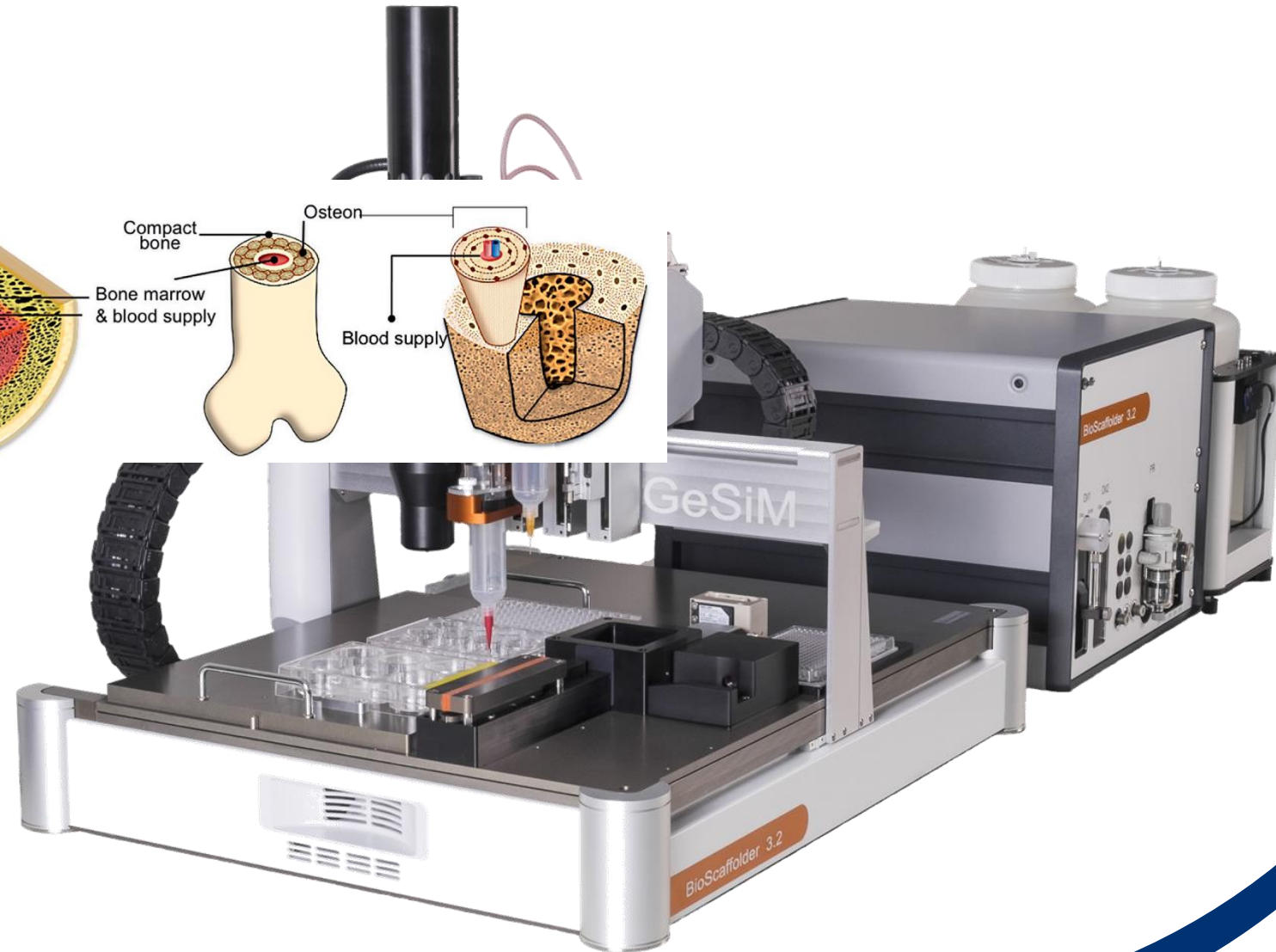
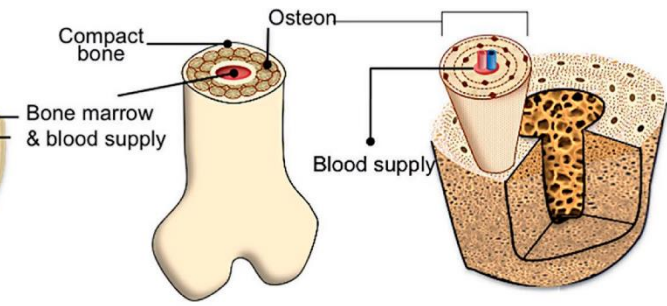
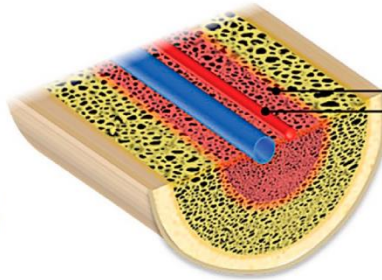
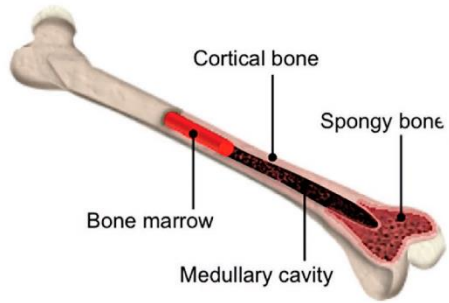
Utilization of intestinal organoid models for assessment of micro/nano plastic-induced toxicity
 Front. Environ. Sci., 26 October 2023



Human-on-a-chip o MicroPhysiological System (MPS)



3D Bioprinter

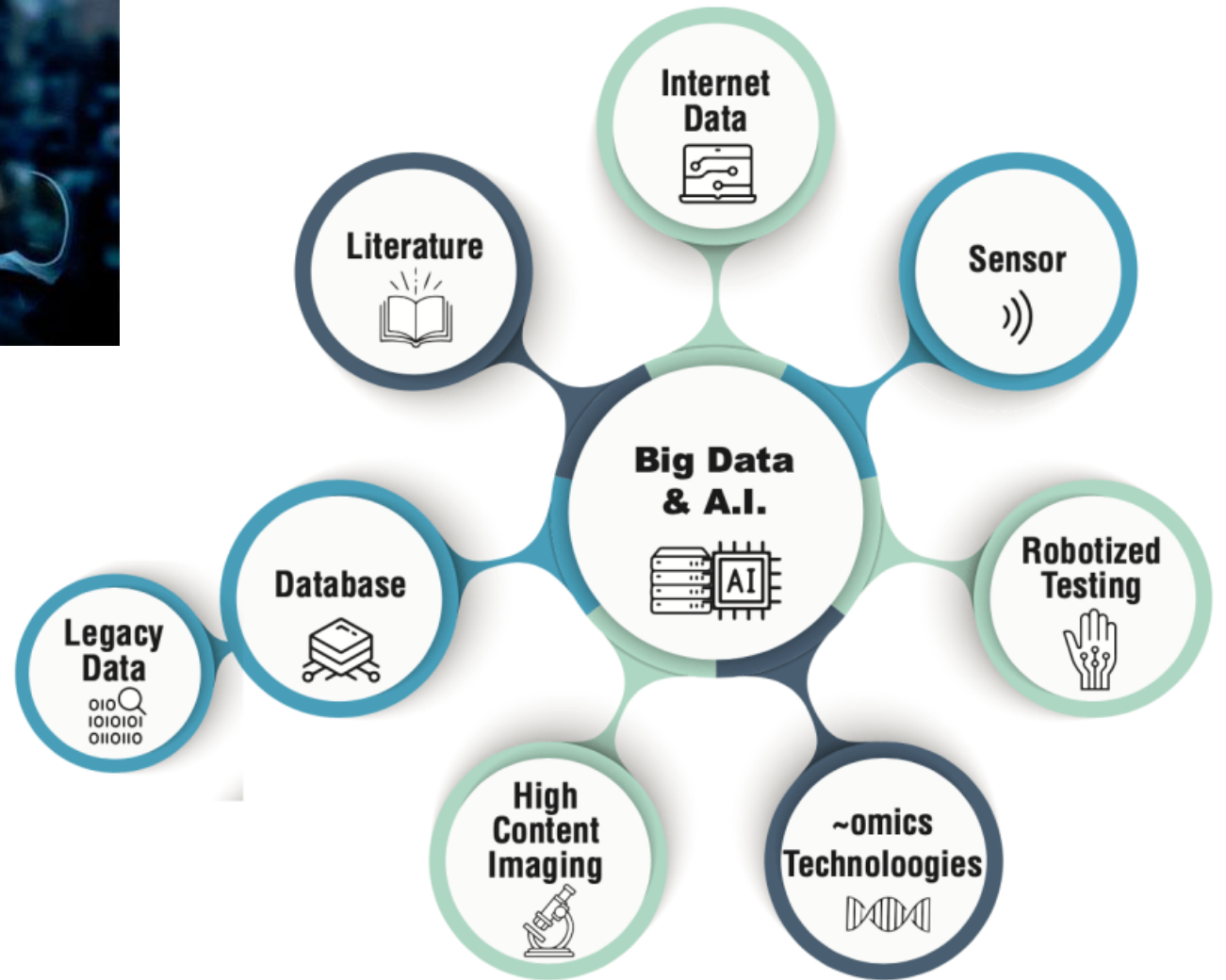




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New Orleans, nel 2022: 54 sponsor, 665 partecipanti
Berlino, nel 2023: 97 sponsor, 1300 partecipanti



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11-12 dicembre 2023

TRAINING AND WORKSHOPS

The Commission roadmap for phasing out animal testing in chemical



as
osr



ECHA

EUROPEAN CHEMICALS AGENCY

ope
stin



EUROPEAN FOOD SAFETY AUTHORITY

European Union Reference Laboratory
for Alternatives to Animal Testing



www.aspis-cluster.eu
www.risk-hunt3r.eu



Centro 3R

<https://www.centro3r.it/>



ITALIAN PLATFORM ON ALTERNATIVE METHODS

<https://www.ipamitalia.org/>



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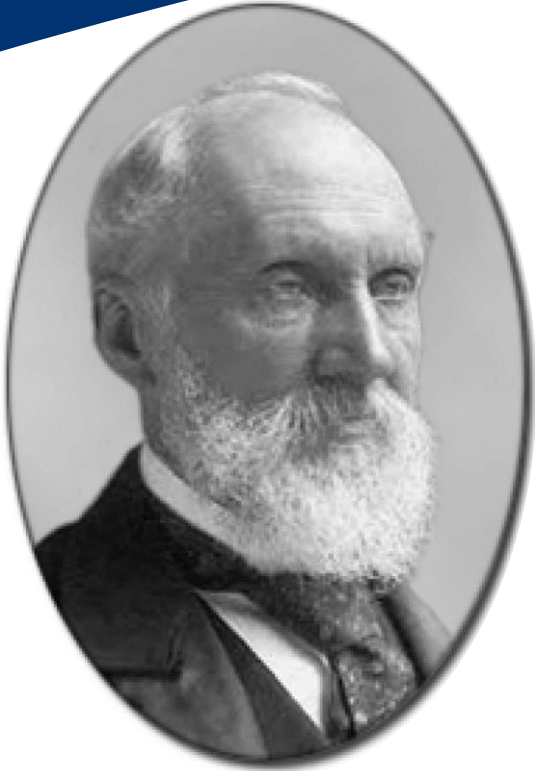
<https://www.team-mastery.eu/>



<https://caat.jhsph.edu>
[/caat-europe/](https://caat-europe/)
<https://caat.jhsph.edu>

Le macchine volanti più pesanti dell'aria non sono possibili (1895)

Nessun pallone e nessun aeroplano avranno mai successo in pratica (1902)



William Thomson, noto anche come Lord Kelvin (1824-1907), presidente della Royal Society e padre della scala di temperatura che porta il suo nome.

