PRETERM BIRTH AND BRAIN INJURY



When is a baby born preterm?



Preterm birth disturbs the development of the baby's brain





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 874721. Results reflect the author's view only. The European Commission is not responsible for any use that may be made of the information it contains.

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What can cause preterm brain injury?





We have treatments and interventions which can improve the effects of brain injury, for example by reducing pain and increasing mobility.

However, there are no therapies to repair or reverse brain damage.



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The PREMSTEM project is investigating stem cells as a repair mechanism to treat brain damage in preterm babies



Stem cells: The body's building blocks!



We use donated Human Mesenchymal Stem Cells taken from umbilical cord tissue in our research

Stem cells help the brain to help itself!

Stem cell treatments make and release amazing trophic factors that can:

Stimulate the brain's own stem cells to become active and start repair processes

Reduce inflammation and allow new connections between cells to occur

premstem.eu

A trophic factor is a molecule that supports cell survival

Support the (re)building of blood vessels to bring nutrients to the brain

Enable cells to insulate and improve connectivity between brain regions

🕑 in @premstem #premstem



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