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Aeronautica Militare

Commissione Esaminatrice

Concorso straordinario, per titoli ed esami, per il reclutamento di 07 (sette) Sottotenenti in servizio permanente nel ruolo speciale del Corpo Sanitario Aeronautico

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PSICOLOGIA

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COMMISSIONE ESAMINATRICE

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Tesina Lingua Inglese N.1

A drug that makes teeth regrow: Scientists move closer to clinical trials

Euronews.com
By **Camille Bello** • Updated: 12/07/2023

Scientists are making significant strides in the development of a groundbreaking drug that could potentially enable the regrowth of teeth. Clinical trials are scheduled to commence in July next year. They hope it will be available for dentists to use by 2030.

Tooth anomalies at birth are common in humans, affecting **one per cent** of people worldwide. But a drug to make teeth regrow would be a world first. The research, led by the Medical Research Institute Kitano Hospital in Osaka, Japan, aims to bring "a therapeutic drug for patients who lack a full set of adult teeth due to congenital factors" - related to genetic or developmental influences that occurred before birth.

"People with anodontia [the medical term for a complete absence of teeth] don't have natural teeth because they never developed them. The condition often appears alongside other genetic conditions, such as ectodermal dysplasia [defects of the hair, nails, teeth, skin and glands]. Common treatments include dentures and dental implants," according to information on Cleveland Clinic's **website**.

The condition - also known as **tooth agenesis** - hinders basic abilities like chewing, swallowing and speaking from a young age, which can negatively impact development.

Dr Katsu Takahashi, head of the dentistry and oral surgery department at the Medical Research Institute Kitano Hospital, has been working on the drug since his graduate student days, in the early nineties. "The idea of growing new teeth is every dentist's dream," he said to Japanese journal **The Mainichi**, adding that he was confident he'd be able "to make it happen."

A drug to regrow teeth would be revolutionary, providing an alternative solution for individuals who have lost their teeth due to severe cavities or dental diseases.

Work is now underway to get the drug ready for human use. And once its safety and efficacy are ensured, the focus will be on treating children aged 2 to 6 who display signs of anodontia, reported the Mainichi.

Dr Takahashi envisions a future where tooth-regrowth medicine becomes a viable third option alongside dentures and implants, offering individuals a chance to regain their natural teeth.

"We hope to pave the way for the medicine's clinical use," Takahashi noted.

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¿Es mejor entrenar o descansar en vacaciones?

Las vacaciones pueden ser un arma de doble filo: por una parte, están asociadas con cambios positivos en la salud y el bienestar, pero también tienen modificaciones menos deseables, como el consumo excesivo de alimentos o la posibilidad de aumentar los niveles de sedentarismo.

En general, dormir poco o demasiado y realizar muy poca actividad física se asocian con peor salud, mayor riesgo de enfermedad crónica y aumento de la mortalidad.

Pero una investigación reciente admite que, durante las vacaciones, se observan cambios favorables en los hábitos de movimiento con más actividad física y menos comportamiento sedentario.

En definitva, según la investigación, los efectos positivos son mayores en periodos de cuatro días a dos semanas de duración, y cuando se incluían actividades recreativas al aire libre.