

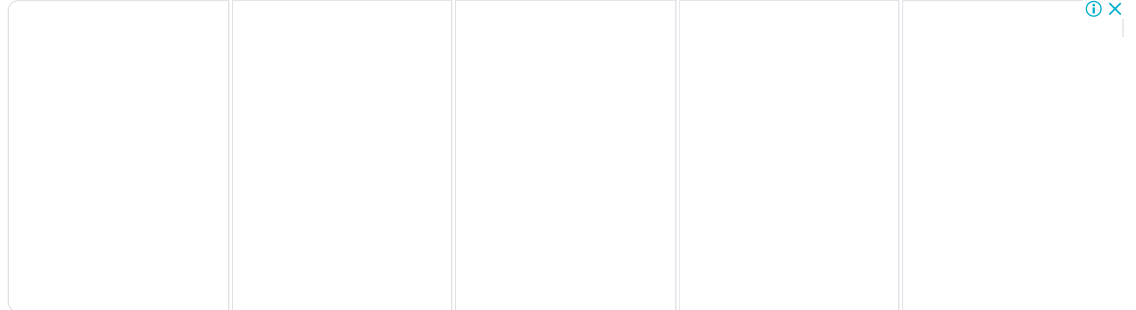


Science 27 JUL 2022 5:49 PM AEST

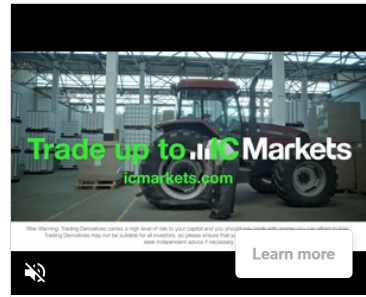
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# Turning marine waste into collagen for faster healing of chronic wounds



New Arrivals Daily  
REVOLVE



A new clinical-grade collagen made from discarded bullfrog skin is leapfrogging from the lab bench to clinics soon.

The collagen is developed by materials scientists from Nanyang Technological University, Singapore (NTU Singapore) in collaboration with Singapore medical technology firm Cuprina Wound Care Solutions (Cuprina), which specialises in developing products that treat chronic wounds, such as those suffered by diabetes patients.

The patented technology is now exclusively licensed to Cuprina for scale-up and commercial production.

Chronic wounds affect 1 in 20 patients in Singapore. Coupled with diabetes affecting 1 in 10 patients and a rapidly aging population, demand for chronic wound care is expected to increase.



Using marine skin waste to create valuable collagen is also a sustainable way to up-cycle and reduce waste for Singapore, as the country is driving towards its Zero Waste Masterplan and encouraging a circular bioeconomy.

This new collagen patch will complement Cuprina's flagship product MEDIFLY, which is clinically proven to eliminate infections and reduce amputation rates due to chronic wounds, especially in cases associated with diabetic foot ulcers.

Earlier this year, Cuprina's joint proposal with NTU to develop and fast-track the commercialisation of this unique collagen product was announced as one of the winning entries of the Sustainability Open Innovation Challenge organised by Enterprise Singapore.



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Why?

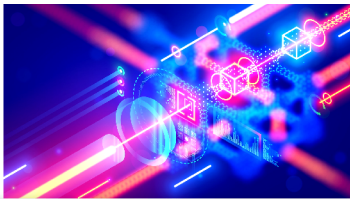
Tags: aging, aging population, chronic, diabetes, diabetic foot ulcers, infections, innovation, Nanyang Technological University, population, production, Scientists, Singapore, sustainability, sustainable, technology, university

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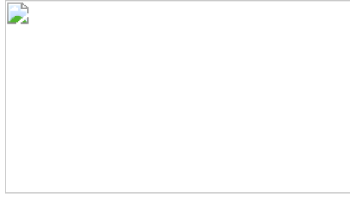
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12:07 PM AEST

**Unique underwater drone game changer**

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**All citybound lanes closed on Parramatta Road in Ashfield due to serious crash involving pedestrian**

12:06 PM AEST

**Police update: Charges – Robbery in Darwin 28 July**

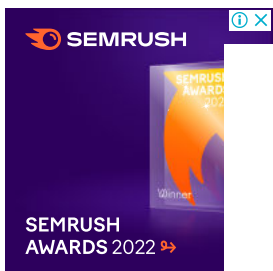
12:06 PM AEST

**10,000 seniors now using digital seniors card**

12:05 PM AEST

**Preferred proponent announced for redevelopment of heritage-listed Cottesloe Deaf School**

12:05 PM AEST



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**Draft Coral City Reserves masterplan to go on public exhibition**

12:04 PM AEST

**Custom Plates show N Shine lights up Melbourne 4X4 show**

12:00 PM AEST

**Place for yarn at Amberley**

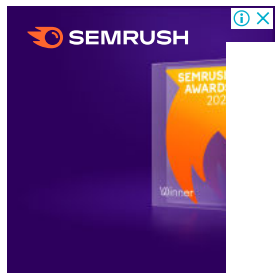
12:00 PM AEST

**Engineers Australia Reef, Rainforest and Resilience Forum**

11:55 AM AEST

**Sarah Hunter on having belief and confidence to “stick it to best” at World Cup**

11:54 AM AEST



**Police search for missing teen Talisha**

11:54 AM AEST

**System for Stable Simultaneous Communication among Thousands of IoT Devices**

11:50 AM AEST

**Northern Territory to receive first hydrogen-fueled generator as CDU prepares for future**

11:47 AM AEST

**One in four Kiwis struggling to get by under Labour**

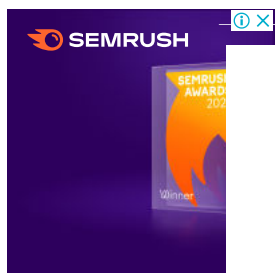
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**Kids Go Free To Melbourne Royal Show**

11:46 AM AEST

**Access To Paid Family Violence Leave Will Help Save Lives**

11:43 AM AEST



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**Council to commence bridge replacement works**

11:38 AM AEST

**ASIC's first DDO stop orders to prevent offer of financial products to consumers**

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**90% of Australians think telcos should offer affordable internet plans**

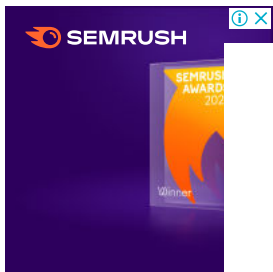
11:33 AM AEST

**Retail turnover rises 0.2 per cent in June: Australia**

11:33 AM AEST

**Sexual assaults increase for tenth year in row: Australia**

11:32 AM AEST



**First demonstration of secure quantum network with untrusted quantum devices**

11:32 AM AEST

**People Have Spoken. Reflections Holiday Parks at Lake Keepit and Copeton Waters Rated Travellers' Choice**

11:28 AM AEST

**Education problem solvers receive grants for vital research**

11:23 AM AEST

**Reko Rennie and Angela Valamanesh to take part in prestigious Rome residency**

11:22 AM AEST

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