THE COMFORT **OF ROBOT HUGS**

kind that can make people healthy and happy! Roboticist Alexis Block from Max Planck Institute for Intelligent Systems has invented HuggieBot, a humanoid robot that hugs.





Each cotton fibre is a single cell. These tough cells can be more than three centimetres lona!

COTTON'S FUTURE LOOKS BRIGHT (AND WRINKLE FREE)

It's natural, durable, comfy and unlikely to cause allergic reactions. As far as fabric goes, cotton has a lot going for it. Unfortunately that's not always enough to help it compete with synthetic fabrics, which are brighter, cheaper, and easy to wear without ironing.

Made from petrochemicals products based on fossil fuels synthetic materials aren't exactly environmentally friendly.

CSIRO scientists are working on a way to make cotton king again, by studying the cells that make up the fabric's tough fibres.

"We're looking into the structure of cotton cell walls and harnessing the latest tools in synthetic biology to develop the next-generation cotton fibre," says CSIRO scientist Dr Madeline Mitchell

One way to make cotton more appealing would be to offer a broader range of colours based on natural pigments. Scientists already have cotton plant tissues producing dazzling yellows, radiant purples and warm golden-orange hues.

With further modification, cotton fibres might not only be coloured. but free of kinks. That means no more ironing required!

- By Mike McRae



DID YOU KNOW?

Cotton fruits are called bolls. Inside each boll is the fluffy white lint we call cotton, plus cotton seeds!



HAVE YOUR SAY AND WIN!

How are you enjoying Double Helix magazine? We've come up with some questions to find out how we can make our magazine even better. From future themes to design ideas, we can't wait to hear your thoughts!

If you complete the survey and live in Australia or New Zealand, you can enter a competition to win Tobbie the Robot. This is a robot kit to build yourself! It's a hexapod robot that can walk, spin and even flash its eves.

WIN!



Have your say at:

Get your response in by 30 November 2020 to be in the running.

LEGO COULD SURVIVE 1300 YEARS IN THE OCEAN

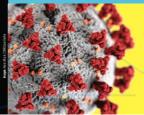
If you've stepped on a LEGO block, you know how strong they are. Now scientists have worked out that it takes between 100 and 1300 years for the toys to break down in the ocean.

cracks and was more faded than the originals. The blocks also suffered

The ocean blocks weighed between three per cent and 40 per cent less than the unweathered blocks. This helped the scientists estimate

Beached LEGO shows these plastic toys can survive centuries





DOUBLE HELIX NEWS: CORONAVIRUS COVERAGE

If you're looking for the very latest from Double Helix, including updates on coronavirus disease (COVID-19), check out our blog: blog.doublehelix.csiro.au