Science

Titan Krios: The insanely powerful \$4m 3D microscope that could unravel cancer's secrets By Mary-Ann Russon Updated February 2, 2015 19:30 GMT S cientists at Monash University in A definition 3D images, and could he atoms and molecules in super high

The FEI Titan Krios cryo-electron micros energy electrons through a thin sample

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using electron microscopy and here are some of the best ones we've seen:

Click on the button to consent to these operations and maintain a tailored experience. You can change your preferences at any time by coming back to this website. **Agree & Close** <u>Learn More</u> → "This microscope is powerful enough to resolve these intricate 3D shapes, identifying the position of individual atoms within a biological molecule and creating exquisitely detailed models including the molecules' loops and side chains.

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nd this will be the first one in Australia. ny and the Synchrotron can't see," said

ne. It works by firing a stream of high-

us diseases such as malaria, and auto-

ling how proteins and cells interact at

ges, and the microscope collects

said Professor James Whisstock,

te stunning 3D shapes.

at Monash University.

"Australian scientists have been queuing up to get time on Titans in Europe and America. Now they can do the job in Australia." There may not be many Titan Krios microscopes in the world but scientists have really enjoyed using them.

FEI has been holding contests annually for the past six years to enable scientists to show off some of the best pictures that have been captured