



Science, just a stitch away...

...your part in the **World's**
largest diffraction pattern

Science & Art at Diamond Light Source

Your contribution to the World's largest diffraction pattern...

By sewing a stitch into this piece of textile art, you have contributed to the world's largest diffraction pattern to be unveiled in 2009. Over 5000 people in total will be contributing to this art project which is led by textile artist Anne Griffiths and will be exhibited at Diamond Light Source when completed.

What's diffraction?

The image depicted here is called a diffraction pattern. Diffraction patterns are obtained by scientists during their experiments at Diamond Light Source. They lead to a 3-D representation of the structure of a specific biological target which can be used to help find cures for specific diseases. The pattern shown here is that of a target called Serine Racemase. Serine Racemase is an important biological target in the fight against pain and neurodegenerative disorders such as Alzheimer's disease. This diffraction pattern is one of the first ever collected for this specific biological target and was done by scientists from the pioneering biopharmaceutical company, Evotec.

What's Diamond Light Source?

We are a scientific institute based in South Oxfordshire in the UK. Like other European synchrotrons, we produce synchrotron light - highly brilliant beams of X-rays, Ultra-Violet and Infra-Red - which is used by researchers from virtually all fields of science. For more information about the science we do, visit our website www.diamond.ac.uk

Evotec

Evotec is a leader in the discovery and development of novel small molecule drugs and has established a powerful drug discovery platform that is applicable to biological targets across all therapeutic areas. It uses pioneering approaches and technologies such as structure-based drug design using the Diamond Light Source in its collaborative and proprietary research. In addition, Evotec has specific expertise in the area of diseases of the central nervous system such as Alzheimer's and Parkinson's disease. Evotec is a regular user of Diamond and is supporting this science and art initiative.

For more information about Evotec, please visit www.evotec.com