



INNOVATION WORKS™

Technology from the European Molecular Biology Laboratory

Phasing macromolecular structures by UV-induced damage

EMBLEM Ref. 340

Challenge

- structure determination of novel macromolecules is of general interest for drug design
- traditionally two sets of reflections of crystals which differ in a small number of atoms are required

Commercial Opportunity

- full technology transfer on a license and/or collaboration basis

Technology

- UV light is used to induce specific radiation damage within macromolecular structures
- these structural damages can be subsequently used for phasing without the need for producing derivatives, saving cost and time
- the technology can easily be incorporated into a high-throughput structure determination pipeline
- is compatible to small in-house radiation sources
- the method has been demonstrated for a series of macromolecules like Elastase, Lysozyme, and others

Contact

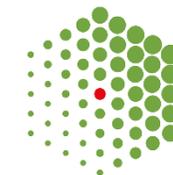
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Intellectual Property

EP 06002491.6



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TECHNOLOGY TRANSFER