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Experimental phasing opportunities for macromolecular crystallography at very long wavelengths

Kamel El Omari ¹², Ramona Duman^{1,2}, Vitaliy Mykhaylyk ^{1,2}, Christian M. Orr ^{1,2}, Merlyn Latimer-Smith¹, Graeme Winter¹, Vinay Grama¹, Feng Qu^{2,3,14}, Kiran Bountra^{2,3}, Hok Sau Kwong^{2,3}, Maria Romano ^{2,3,15,16}, Rosana I. Reis⁴, Lutz Vogeley^{5,17}, Luca Vecchia ^{6,18}, C. David Owen^{1,2}, Sina Wittmann^{7,19}, Max Renner^{6,20}, Miki Senda ⁸, Naohiro Matsugaki^{8,9}, Yoshiaki Kawano ¹⁰, Thomas A. Bowden ⁶, Isabel Moraes ⁴, Jonathan M. Grimes ⁶, Erika J. Mancini¹¹, Martin A. Walsh ^{1,2}, Cristiane R. Guzzo ¹², Raymond J. Owens ^{6,13}, E. Yvonne Jones ⁶, David G. Brown ⁵, Dave I. Stuart ^{1,6}, Konstantinos Beis ^{2,3} & Armin Wagner ^{1,2,53}

Despite recent advances in cryo-electron microscopy and artificial intelligence-based model predictions, a significant fraction of structure determinations by macromolecular crystal-lography still requires experimental phasing, usually by means of single-wavelength anomalous diffraction (SAD) techniques. Most synchrotron beamlines provide highly brilliant beams of X-rays of between 0.7 and 2 Å wavelength. Use of longer wavelengths to access the absorption edges of biologically important lighter atoms such as calcium, potassium, chlorine, sulfur and phosphorus for native-SAD phasing is attractive but technically highly challenging. The long-wavelength beamline I23 at Diamond Light Source overcomes these limitations and extends the accessible wavelength range to $\lambda = 5$. Here we report 22 macromolecular structures solved in this extended wavelength range, using anomalous scattering from a range of elements which demonstrate the routine feasibility of lighter atom phasing. We suggest that, in light of its advantages, long-wavelength crystallography is a compelling option for experimental phasing.

Diamond Light Source, Harwell Science and Innovation Campus. - OKTIODE, UK. ² Research Complex at Harwell, Rutherford Appleton Laboratory, Didoot OKTI OFA, UK. ³ Department of Uffe Sciences, Imperial College London, London SW7 2AZ, UK. ⁴ National Physical Laboratory, Hampton Road, Teddington TWTI OLW, UK. ⁵ Charles River Discovery Research Services UK. Chesterford Research Park, Saffron Waldem CB/00 DU. UK. ⁶ Disvision of Structural Biology, Wellcome Centre for Human Genetics, University of Oxford, Oxford OX3 78N, UK. ⁷ Department of Biochemistry, University of Oxford, Oxford, UK. ⁸ Structural Biology Research Center, Institute of Materials Structure Science, High Energy Accelerator Research Organization (KEK), Taskuba, Ibaraki 305-0801, Japan. ¹⁰ Advanced Studies (Sokendal), 1-1 Oho, Taskuba, Ibaraki 305-0801, Japan. ¹⁰ Science, Science, Science, Science, Riklin Spring-B Center, Hyogo 679-5148, Japan. ¹⁰ Sciences, University of Sussex, Falmer, Brighton BN1 9QG, UK. ¹⁰ Department of Microbiology, Institute of Biomedical Sciences, University of Silo Paulo, Silo Paulo 05508-000, Brazil. ¹⁰ The Bosalind Franklin Institute, Harwell Campus, Oxford OX11 OYA, UK. ¹⁰ Present address: Department of Pharmacy, University of Nigdes, Tederico II*, 8013 Niepies, Italy. ¹⁰ Present address: Mas Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Desiden, Germany. ¹⁰ Present address: Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland. ¹⁰ Present address: Institute of Molecular Biology (IMB), Ackermannoweg 4, 55128 Mainz, Germany. ¹⁰ Present address: Department of Chemistry, University, 901 87 Umid, Sweden. ¹⁰ Present Biology (IMB), Ackermannoweg 4, 55128 Mainz, Germany. ¹⁰ Present address: Department of Chemistry, University, 901 87 Umid, Sweden. ¹⁰ Present Biology (IMB), Ackermannoweg 4, 55128 Mainz, Germany. ¹⁰ Present address: Department of Chemistry, University, 901 87 Umid, Sweden. ¹⁰ Present Biology (IMB), Ackermannoweg 4, 55128 Mainz, German

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