

Press Release

The May 2019 edition of the *Crystallography Times* newsletter is online

Crystallography Times vol. 11, No. 5 from Rigaku Oxford Diffraction, focusing on single crystal X-ray diffraction, is available from the company's website.

May 24, 2019 – The Woodlands, Texas. The newest edition of *Crystallography Times* from [Rigaku Corporation](#) has been published and is now available on the company's global website.

Crystallography Times is a monthly electronic newsletter published by Rigaku Oxford Diffraction ([ROD](#)) focusing on single crystal X-ray diffraction. It serves the X-ray analysis community by presenting the latest news and crystallographic research.

“Crystallography in the News” - a monthly collection of the latest news and developments - gathers the latest research findings in small molecule and protein crystallography and X-ray diffraction from around the world.

One article explains microseeding, a method used in protein crystallography where small seed crystals can be used to induce the formation of larger crystals. It was first shown to generate untwinned crystals of a compound called LigM, an O-demethylase, using untwinned crystals as seeds.

Another news item reports that a study at [The University of Texas MD Anderson Cancer Center](#) has identified a new therapeutic target in cancer cells and explains how new anti-cancer drugs called imipridones work by inducing cancer cell death in blood cancers, such as acute myeloid leukemia (AML) and mantle cell lymphoma.

The *Product Spotlight* in the current issue features the [Rigaku XtaLAB Synergy-S](#) X-ray diffractometer for single crystal X-ray diffraction. The system is based around the PhotonJet-S series of microfocus X-ray sources that incorporate continuously variable divergence slits. Using a combination of leading edge components and user-inspired software, joined together through a highly parallelized architecture, the XtaLAB Synergy-S system is designed to produce fast, precise data in an intelligent fashion.

The system is also highlighted in the “Lab in the Spotlight” feature, which showcases [Oregon State University](#). The University recently took delivery of a dual source XtaLAB Synergy-S diffractometer. During the first week after installation, the new diffractometer, located in the Agricultural Life Science Building, produced enough data for eight new structures, all fit for publication in peer-reviewed science journals.



Rigaku XtaLAB Synergy-S single or dual microfocus X-ray diffractometer

The latest book review presents *Mama's Last Hug: Animal Emotions and What They Tell Us about Ourselves* by biologist Frans de Waal. Inspired by the death of “Mama,” a chimpanzee matriarch who formed a deep bond with the author, the book presents a fascinating exploration of the rich emotional lives of animals.

Also included are 29 recently published scientific papers, a schedule of upcoming events, and access to the Rigaku Oxford Diffraction [user forum](#).

Crystallography Times is published monthly. Readers can subscribe to the newsletter or view the current issue online at <https://www.rigaku.com/subscribe>.

About Rigaku Oxford Diffraction (ROD)

ROD was formed as the global single crystal business unit of Rigaku Corporation after the acquisition of the former Oxford Diffraction organization from Agilent Technologies in 2015. ROD is a leader in the field of single crystal analysis, both in the field of chemical crystallography as well as well as macromolecular crystallography. Formed in 1951, Rigaku Corporation is a leading analytical instrumentation company based out of Tokyo, Japan.

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