

Press Release

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

Crystallography Times vol. 11, No. 7, from Rigaku Oxford Diffraction, focusing on single crystal X-ray diffraction, is available from the company's website.

July 30, 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. Each month, the electronic newsletter, published by Rigaku Oxford Diffraction (ROD), serves the X-ray analysis community by presenting the latest news and crystallographic research.

"Crystallography in the News" is a monthly collection of the latest worldwide news and developments, offering the latest research findings in small molecule and protein crystallography and X-ray diffraction.

One news item highlights a study recently published in the journal *Nature* that notes the role of X-ray experiments at Berkeley Lab's Advanced Light Source (ALS) in detailing the [structure of a grouping of amino acids](#) that are part of an important signaling protein. The protein, known as STING, plays an important role in activating the immune system.

Another item reports that researchers have mapped the [crystal structure of a key protein](#) that makes the metabolites responsible for the bitter taste in *Brassica* vegetables. The new study offers the first glimpse of how the protein evolved and came to produce such diverse byproducts as mustards, broccolis, and cabbages in this agriculturally significant group of plants.

The *Product Spotlight* in the current issue features the [Rigaku XtaLAB Synergy Custom](#) single crystal X-ray diffraction HPC-based systems. It is a fully flexible single crystal X-ray diffractometer for laboratories requiring a bespoke solution for their unique crystallography applications. Users are able to customize systems to their own designs, using a range of high-quality components dedicated to single crystal X-ray diffraction.



Rigaku XtaLAB Synergy Custom
single crystal X-ray diffraction HPC-
based systems

The “Lab in the Spotlight” feature for July presents [The University of Reading, United Kingdom](#). In March, the Chemical Analysis Facility in the University of Reading took delivery of a [Rigaku XtaLAB Synergy-S](#) diffraction System (dual microfocus source) single crystal diffractometer with a HyPix 6000HE single-photon counting detector. The system has since been employed for a range of projects, including studies of DNA crystals and their damage processes, to variable temperature studies of metal cyanides and related materials.

The latest book review presents [The Lives of Bees: The Untold Story of the Honey Bee in the Wild](#) by Thomas D. Seeley. The book presents the culmination of over four decades of formal research and nearly a lifetime's worth of personal interest in honeybees. Specifically the book concerns itself not with domesticated honeybees but with wild ones.

Also included are 20 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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