

# Press Release

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## First 2018 edition of the Crystallography Times newsletter is now online

*Crystallography Times vol. 10, No. 1, from Rigaku Oxford Diffraction, focusing on single crystal X-ray diffraction, is available from the company's website.*

**January 29, 2018 – The Woodlands, Texas.** The latest edition of [Crystallography Times](#) from [Rigaku Corporation](#) has been published and is available to view on the company's global website.

A monthly electronic newsletter published by [Rigaku Oxford Diffraction](#) (ROD), *Crystallography Times* concentrates on single crystal X-ray diffraction, and serves the X-ray analysis community by presenting the latest news and crystallographic papers.

“Crystallography in the News” brings together the latest worldwide news and developments in small molecule and protein X-ray diffraction and showcases the newest research findings and advancements. Featured news stories include reports about the discovery by a team of Yale University researchers of an anti-aging protein which could play an important role in the treatment of multiple diseases ranging from diabetes to cancers. The findings indicated that the three-dimensional X-ray crystal structure of one of the proteins plays a large role in the regulation of longevity and metabolism.

Another news item reports that international team of scientists captured the crystal structure of the kappa opioid receptor — critical for providing pain relief — on the surface of human brain cells. They also made the discovery of a new opioid-based compound that, unlike current opioids, activates only the kappa opioid receptor, raising hopes that a painkiller that has no risk of addiction can be developed.

The Product Spotlight in the current issue features the [Rigaku XtaLAB Synergy Custom](#) single crystal X-ray diffraction system, a fully flexible Hybrid Photon Counting (HPC)-based system for laboratories requiring tailored solutions for their unique crystallography applications.



**Rigaku XtaLAB Synergy-Custom X-ray diffraction system**

The “Lab in the Spotlight” section highlights a different laboratory from the global community of X-ray diffraction facilities. In this month’s edition, Macromolecular Crystallography Laboratory is featured, highlighting the investigation - mainly by high-resolution X-ray diffraction – of the relationship between protein structure and function, revealing structural features of macromolecules that could explain their importance to understanding cancer and AIDS.

Recently published scientific papers, book reviews, a schedule of upcoming events, and a link to the Rigaku Oxford Diffraction [user forum](#) are also included.

*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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