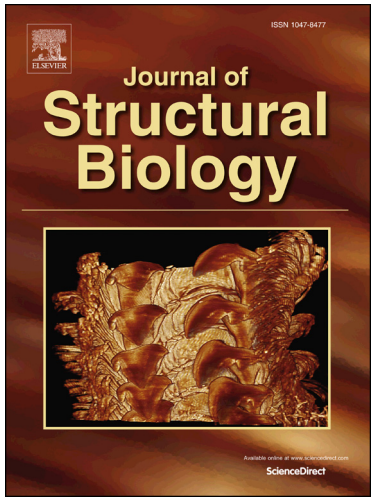

Journal of Structural Biology – Paper of the Year 2017

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Journal of Structural Biology – Paper of the Year 2017

This year we had many meritorious papers. In the event, the award is being shared by:

(i) Yoshiyuki Fukuda from the Molecular Structural Biology Department of the Max Planck Institute for Biochemistry, Martinsried, Germany, for the paper
Electron cryotomography of vitrified cells with a Volta phase plate
Yoshiyuki Fukuda, Ulrike Laugks, Vladan Lučić, Wolfgang Baumeister and Radostin Danev; Vol. 190, Issue 2, Pages 143-154; May 2015; and

(ii) Kai Zhang from the MRC Laboratory of Molecular Biology in Cambridge U.K. for the paper
Gctf: Real-time CTF Determination and Correction
by Kai Zhang; Vol. 193, pp 1- 12, January 2016.

Dr Fukuda was mentored by Dr Radostin Danev. Dr Zhang was hosted and received editorial guidance from Dr Andrew Carter. Drs Fukuda and Danev will both be taking up faculty appointments at the University of Tokyo in Jaoan early in 2018.

We congratulate the winners on their fine work. More information on the context of the respective studies is given below.

Andrei N. Lupas and Alasdair C. Steven (Editors-in-Chief)

(i) Yoshiyuki Fukuda started his electron cryo-microscopy career during his Ph.D. studies in the laboratory of Prof. Kuniaki Nagayama at the National Institute for Physiological Sciences, Okazaki, Japan. He worked on applications of Zernike-type phase plates to electron cryo-tomography (cryo-ET) of vitrified cultured cells and vitreous sections from frozen tissues. Yoshiyuki analyzed the effects of the phase plate hole size on the presence and severity of phase contrast fringing artifacts in the images. His early work demonstrated the practical benefits of using phase plates for cellular cryo-ET in terms of improved contrast and enhanced visibility of morphological features.