



## The Photobiology of Human Circadian, Neuroendocrine and Neurobehavioral Effects of Light

One of the most exciting and active fields of photobiological research in this decade has centered on the recent discovery of a new retinal photoreceptive cell—the non-visual photosensitive ganglion cell in the mammalian retina. It is now generally accepted that the photopigment (chromophore) in these neural cells is melanopsin, which is most sensitive to short-wavelength (blue) light. Studies have centered on determining the action spectrum, the temporal and spatial characteristics of this photoreception system and how the changing diurnal light input mediates a wide range of effects of light in the human body. This topical symposium will review the rapidly changing state of knowledge in this area and explore areas for further research. Current research has important physiological implications for better understanding sleep and mood disorders, jet-lag, visual performance, sleep, metabolic and hormonal rhythms. The ASP is delighted to organize this program that includes scientists who have pioneered many key studies on each aspect of this field.

### *Topics Include:*

- Electrophysiology of circadian photoreception
- Role of melanopsin in sleep regulation
- Neuroendocrine responses to light in humans
- Circadian photoreception and ocular aging
- Circadian photoreception and ocular health in mammals
- Circadian photoreception and ocular health in humans

### *Speakers Include:*

- David Berson, Brown University
- George Brainard, Thomas Jefferson University
- Howard Cooper, INSERM
- Michael DellaVecchia, Wills Eye Institute
- Samer Hattar, John Hopkins University
- Steve Lockley, Harvard Medical School
- Martin Mainster, University of Kansas Medical Centre
- Dave Sliney, ASP President
- Gianluca Tosini, Morehouse School of Medicine

Registration information for Human Circadian Symposium  
July 10, 2009

Online registration will be available soon!

Register online or on site.

Watch for details at: [www.photobiology.org](http://www.photobiology.org)

Registration Costs.....\$50.00  
Students/Fellows ..... \$20.00

You may also want to attend the 'Lighting, Architecture and Human Health Workshop' on  
July 9, 2009

Separate registration applies

Registration Costs.....\$100.00