

## Incorporating the Journal of Biological Photography

## PUBLISHED BY

## The Journal of Biocommunication, Inc.

Carol Gray (Business Manager) 2772 Woodwardia Drive Los Angeles, CA 90077 Phone: 310-475-4708 carolagray@gmail.com http://www.jbiocommunication.org

## INCORPORATING THE

## Journal of Biological Photography

#### IN ASSOCIATION WITH

## Association of Biomedical Communications Directors (ABCD)

c/o James C. Huff University of Colorado Health Science Center 4200 E. Ninth Ave Box A066 Denver CO 80262 303-315-7144 jim.huff@uchsc.edu http://www.abcdirectors.org/index.htm

## Association of Medical Illustrators (AMI)

P.O. Box 1897 Lawrence, KS 66044 U.S.A. Phone: 866-393-4AMI Fax: 785-843-1274 http://www.ami.org

#### BioCommunications Association (BCA)

220 Southwind Lane Hillsborough, NC 27278 (919) 245-0906 phone/fax office@bca.org http://www.bca.org

## **FEATURES**

- 3 Effectiveness of Timeline Pacing as a Postproduction Cueing Strategy in an Educational ThreeDimensional Animation for Undergraduate Medical
  Students: A Randomized Controlled Trial
  Kari L. Visscher
  Nicholas Woolridge
  Jodie Jenkinson
  Kevin C. Kain
- Jan Wandelaar, Bernard Siegfried Albinus and an Indian Rhinoceros Named Clara Set High Standards as the Process of Anatomical Illustration Entered a New Phase of Precision, Artistic Beauty, and Marketing in the 18th Century Linda Wilson-Pauwels, AOCA, BScAAM, MEd, EdD
- 18 Fifty Years of Anatomy in Fifty Minutes Robert J. Demarest

Direct editorial communications to the respective Association Editors:

ABCD Editor: Manny Bekier, Biomedical Communications, SUNY Downstate Medical Center, 450 Clarkson Avenue, Box 18, Brooklyn, NY 11203, (718) 270-7551

AMI Editor: Gary Lees, Art as Applied to Medicine, Johns Hopkins School of Medicine, 1830 E. Monument, St. Suite 7000, Baltimore, MD 21093, (410) 955-3213

BCA Editor: Mark Marzolf, Media Services, Shriners Hospitals for Children, Fairfax Road at Virginia Street, Salt Lake City, UT 84103, (801) 536-3750 Journal Management Board: Gary Schnitz, Chairman (The Indiana Hand Center), Bob Turner (The Scripps Research Institute), Connie Johansen (National Geospatial Intelligence Agency), Gary Lees (Johns Hopkins School of Medicine), Manny Bekier (SUNY Downstate Medical Center)

Managing Editor: Joe Ogrodnick, Entomology, NYS Ag. Experiment Station, Communications Services, NYSAES, 632 W. North Street, Geneva, NY 14456, (315) 787-2324

Editorial Review Board: Scott Barrows (Medical Art Associates) • Zina Deretsky (National Science Foundation) • Marc Dryer (University of Toronto) • Craig Gosling (Indiana University) • Christine Gralapp (Fairfax, CA) • Kenneth Heyman (Immersion Medical) • Tom Hurtgen (Hillsborough, NC) • Dale Kennedy (VA Medical Center - Albuquerque, NM) • Patrick Lynch (Yale University) • Ken Michaels (National Cancer Institute) • Steven Moon (Ohio State University) • Michael Peres (Rochester Institute of Technology) • James Perkins (Rochester Institute of Technology) • David Rini (Johns Hopkins School of Medicine) • Sue Seif (Seif & Associates.) • Bobb Sleezer (Christiana Care Health Services) • Bob Turner (The Scripps Research Institute) • Linda Warren (Austin, Texas) • Linda Wilson-Pauwels (University of Toronto)

Business Manager: Carol Gray (Los Angeles, CA)
Webmaster and Production Group: Michael Getz (Illumina Interactive, Boston, MA)

# PUBLISHER'S COMMENTS

The entire *JBC* Management Board welcomes you to issue 35-1. As the volume number so designates, this is the 35th year of publication of the *Journal of Biocommunication* – a publication history that began in 1974. The Management Board would like to thank those early *JBC* Boards, editors, authors, and the loyal associations, who so steadfastly supported the *JBC* during those early years. This has been a rewarding endeavor and labor of love for all those associated with the Journal. We look forward to many more years of academic, visual, biomedical, and scientific publication.

Included in this issue is "Effectiveness of Timeline Pacing as a Post-production Cueing Strategy in an Educational Three-Dimensional Animation for Undergraduate Medical Students: A Randomized Controlled Trial." Authored by Kari Visscher, Nicholas Woolridge, Jodie Jenkinson, and Kevin Kain, this article investigates the quantity and quality of undergraduate medical students' learning from a three-dimensional animation. The authors evaluate whether timeline pacing, the speed at which the linear representation, or timeline, of the animation is viewed, can improve the overall educational effectiveness of the animation. This article provides a direct link to the actual five-minute, narrated animation called "Malaria, HIV-1, and Pregnancy: A Cycle of Affliction," created by Kari Visscher.

Additionally, we include the article "Jan Wandelaar and Bernard Siegfried Albinus Set High Standards as the Process of Anatomical Illustration Entered a New Phase of Precision, Artistic Beauty, and Marketing in the 18th Century" authored by Linda Wilson-Pauwels, AOCA, BScAAM, MEd, EdD. This article provides insight into the artist-anatomist partnership between these two accomplished men. The copper plates in *Tabulae selecti et musculorum corporis humani* prepared by Wandelaar for Albinus established new production standards in anatomical illustration. Of interest, the most famous engraving in this atlas depicts a muscle man standing in front of the first anatomically correct depiction of a living rhinoceros. Wandelaar and Albinus immediately proclaimed the image as a symbol of their book, and engravings of Clara, the rhinoceros, were in the shops in Leiden five years before their book was published in 1747.

The article, "Fifty Years of Anatomy in Fifty Minutes" by Robert Demarest offers a remarkable review of anatomy and provides some delightful, candid personal insight by the author. The article also includes some less-understood, yet important anatomical "pearls" for all medical illustrators. This article's content (and title) is representative of Bob's informative fifty-minute presentation given at the 2009 AMI-Indianapolis annual meeting. Nearly thirty illustrations are included within the article depicting those anatomical subject areas that are most often misrepresented in the media. This article will be one that you will want to refer to again and again.

The *JBC* Gallery for 35-1 features award-winning images from the 2007 Professional Exhibition of the Ophthalmic Photographers' Society. The OPS is a non-profit organization dedicated to highly specialized medical photography related to the field of ophthalmology. We included an earlier OPS photographic exhibition in a prior issue of the *JBC*, and now have invited this specialized and talented group of photographers back for a return visit. We hope that you enjoy these striking clinical images.

Our 35-1 Showcase features images from students of Rochester Institute of Technology's (RIT) Biomedical Photographic Communications Program. This well-known program, grants a Bachelor of Science degree in biomedical photographic communications. This is an exciting area of visual communications that combines photography and science. These Showcase images provide a look at just one aspect of the program's diverse training and the excellent student photographic imagery.

Our TechBytes column has returned with a new author for the column. Gabriel Unda from the BCA has kindly accepted the task of writing for this column. If the name is familiar, last year Gabe authored a Book Review in *JBC* 34:1 - "Photoshop CS3 for Forensic Professionals: A Complete Digital Imaging Course for Investigators." We welcome Gabe to the *JBC*.

Eugene McDermott, a longtime BCA member, has picked up the pen from Ron Irvine and continues this column's look back at biomedical photography and biocommunications a quarter century ago. The retrospective column, "Twenty-Five Years Ago in the *JBPA/JBP*," provides a look at the materials, methods, techniques, and the thought processes of those times. I would like to personally thank Ron Irvine for providing us with many years of thoughtful insight as we looked into our past, and welcome Eugene's participation.

Thank you all for being part of our publishing legacy.

Gary Schnitz, CMI, FAMI Chair, *JBC* Management Board gschnitz@indianahandcenter.com