

The 2006 Dolph Adams Award and the State of the *Journal of Leukocyte Biology*

This is the 9th year that the Society of Leukocyte Biology has awarded authors cash prizes in honor of Dolph Adams. The \$1000 cash award recognizes the most highly cited research paper and highly cited review article published during the previous 5 years in the *Journal of Leukocyte Biology*. The prizes are awarded directly to the corresponding authors, who can decide how they will be distributed. The 2005 Dolph Adams Award winner for the most highly cited research article was Dr. Matthew J. Fenton, corresponding author of the manuscript “Different Toll-like receptor agonists induce distinct macrophage responses” [(2001) *J. Leukoc. Biol.* 69, 1036–1044], at 100 citations. The award winner for the most highly cited review article was Dr. Robert Strieter, corresponding author of the manuscript “CXC chemokines in angiogenesis” [(2000) *J. Leukoc. Biol.* 68, 1–8], at 176 citations.

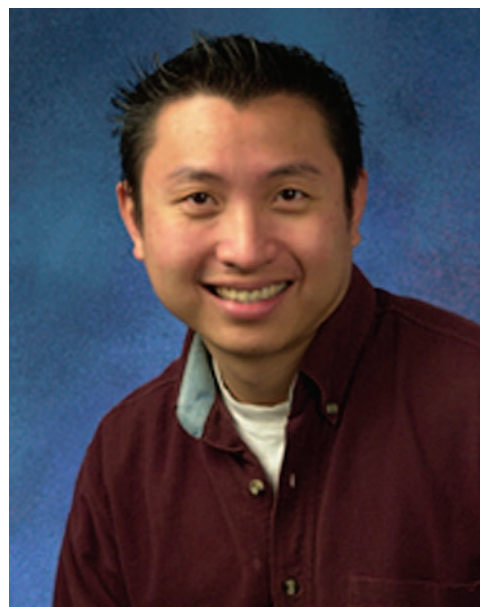
We are pleased to announce the winner of the 2006 Dolph Adams Award for an original research paper: Dr. Benhur Lee, who is currently an assistant professor of Microbiology, Immunology and Molecular Genetics with a joint appointment in Pathology and Laboratory Medicine at UCLA. The manuscript, “Constitutive and induced expression of DC-SIGN on dendritic cell and macrophage subpopulations in situ and in vitro” by Elizabeth J. Soilleux, Lesley S. Morris, George Leslie, Jihed Chehimi, Qi Luo, Ernest Levroney, John Trowsdale, Luis J. Montaner, Robert W. Doms, Drew Weissman, Nicholas Coleman, and Benhur Lee [(2002) *J. Leukoc. Biol.* 71, 445–457], has scored 99 citations in the past 5 years.

Dr. Lee graduated Yale University School of Medicine in 1995, and after a Clinical Pathology residency at University of Pennsylvania, he joined the faculty at UCLA in 2001. Dr. Lee notes that this award-winning paper was the first paper published from his own laboratory with himself as the corresponding author.

Dr. Lee was delighted to learn of the award, which he will share with the first author and major collaborator on this work, Dr. Elizabeth Soilleux. He believes that the paper is highly cited, as it was the first paper to explore cell-specific expression of the viral attachment molecule dendritic cell-specific ICAM-grabbing nonintegrin (DC-SIGN) with antibodies with stringently defined specificity. He also notes that this manuscript provided the first glimpse at what cytokines might elicit DC-SIGN expression, which in hindsight, was quite an important finding. Currently, the Lee lab is exploring interactions between DC-SIGN and the envelope proteins of HIV, with an eye toward developing a vaccine that blocks the interaction between HIV and DC.

In other recent work, Dr. Lee has made quite a splash with the identification of a cellular receptor for paramyxovirus, Nipah virus [Negrete, O. A., et al. (2005) *Nature* 436,

401–405], and his analysis of virus glycans, which proceed to the observation that the carbohydrate-binding protein, galectin-1, completely blocks Nipah virus entry into cells [Levroney, E. L., et al. (2005) *J. Immunol.* 175, 413–420]. Nipah virus, which can result in as much as a 70% mortality rate, has been identified as a potential bioterrorism agent and remains prevalent in Dr. Lee’s original home country of Singapore.



Dr. Benhur Lee, winner of the 2006 Dolph Adams award for his highly-cited original research article “Constitutive and induced expression of DC-SIGN on dendritic cell and macrophage subpopulations in situ and in vitro.”

Dr. Lee’s laboratory is featured in an extraordinarily creative and information-filled website, which can be found at <http://mikewolf.bol.ucla.edu/LeeLab/home.htm>.

The *Journal of Leukocyte Biology* also recognizes and honors the five runner-up, highly cited original research papers:

Paper #2 with 60 citations: “Differential expression of Toll-like receptor 2 in human cells” by Trude H. Flo, Oyvind Halaas, Sverre Torp, Liv Ryan, Egil Lien, Brit Dybdahl, Anders Sundan, and Terje Espevik [(2001) *J. Leukoc. Biol.* 69, 474–481].

Paper #3 with 60 citations: “CD1d-reactive T cell activation leads to amelioration of disease caused by diabetogenic encephalomyocarditis virus” by Mark A. Exley, Nancy J. Bigley, Olivia Cheng, Syed Muhammad Tahir, Stephen T. Smiley,

doi: 10.1189/jlb.1106655

Quincy L. Carter, Harold F. Stills, Michael J. Grusby, Yasuhiko Koezuka, Masuru Taniguchi, and Steven P. Balk [(2001) *J. Leukoc. Biol.* 69, 713–718].

Paper #4 with 59 citations: “BCL-2 family expression in human neutrophils during delayed and accelerated apoptosis” by Dale A. Molding, Cahit Akgul, Mathieu Derouet, Michael R. White, and Stephen W. Edwards [(2001) *J. Leukoc. Biol.* 70, 783–792].

Paper #5 with 56 citations: “Requirement for STAT1 in LPS-induced gene expression in macrophages” by Yoshihiro Ohmori and Thomas A. Hamilton [(2001) *J. Leukoc. Biol.* 69, 598–604].

Paper #6 with 56 citations: “Toll-like receptor 9 mediates CpG-DNA signaling” by Tsung-Hsien Chuang, Jongdae Lee, Lois Kline, John C. Mathison, and Richard J. Ulevitch [(2002) *J. Leukoc. Biol.* 71, 538–544].

The winner of the 2006 Dolph Adams Award for the most highly cited review article is Dr. Bryan R. G. Williams, previously of the Cleveland Clinic Foundation and now at the Monash Institute of Medical Research (MIMR), Australia. The paper, “Functional classification of interferon-stimulated genes identified using microarrays” by Michael J. de Veer, Michelle Holko, Mathias Frevel, Eldon Walker, Sandy Der, Jayashree M. Paranjape, Robert H. Silverman, and Bryan R. Williams [(2001) *J. Leukoc. Biol.* 69, 912–920], has been cited 115 times in the past 5 years.

Dr. Williams has a long and outstanding research career and is best known for his work on IFNs and IFN signaling. Given the ongoing and intense interest in IFNs in basic science and clinical realms, it is hardly surprising that a review on this subject would be cited extensively.

The award-winning review included a compiled dataset from five distinct microarray studies—information that permitted the authors to make novel inferences vis à vis the role of IFNs in modulating biological processes. Dr. Williams notes that he and his coauthors were rather surprised at the extent to which intrinsic and seemingly unrelated metabolic pathways were altered in response to IFN stimulation, and he believes that many of the side-effects that patients have experienced with IFN therapy might relate directly to these findings.

Dr. Williams and his coauthors have moved forward with this work, including a manuscript documenting functional annotation of gene expression profiles from IFN-resistant and IFN-sensitive cancer cell lines [Holko, M., Williams, B. R. (2006) *J. Interferon Cytokine Res.* 26, 534–547], and another focused on the identification of gene clusters associated with the antiviral and antiproliferative actions of IFN [Khabar, K. S., et al. (2004) *J. Mol. Biol.* 17, 833–846].

In January 2006, Dr. Williams was appointed to the positions of director of MIMR and head of the Centre for Cancer Research. MIMR is a health care provider for the southeastern Melbourne region, as well as one of the leading research institutes in Australia. He is continuing his work about molecular biology of tumor suppression with a focus on the role of tumor suppressor gene expression in regulating cell growth, differentiation, and apoptosis.



Dr. Bryan R. G. Williams, winner of the 2006 Dolph Adams award for his highly-cited review article “Functional classification of interferon-stimulated genes identified using microarrays.”

Dr. Williams plans to use the \$1000 prize to fund travel for Ph.D. students and postdoctoral fellows, so as to enable them to attend international meetings.

In recognition, the *Journal of Leukocyte Biology* honors the five runner-up, highly cited review articles:

Paper #2 with 113 citations: “Chemokines in cutaneous wound healing” by Reinhard Gillitzer and Matthias Goebeler [(2001) *J. Leukoc. Biol.* 69, 513–521].

Paper #3 with 109 citations: “Multiple control of interleukin-8 gene expression” by Elke Hoffmann, Oliver Dittrich-Breiholz, Helmut Holtmann, and Michael Kracht [(2002) *J. Leukoc. Biol.* 72, 847–855].

Paper #4 with 101 citations: “The many faces of macrophage activation” by David M. Mosser [(2003) *J. Leukoc. Biol.* 73, 209–212].

Paper #5 with 98 citations: “Gelatinase B functions as regulator and effector in leukocyte biology” by Ghislain Opdenakker, Philippe E. Van den Steen, Benedicte Dubois, Inge Nelissen, Els Van Coillie, Stefan Masure, Paul Proost, and Jo Van Damme [(2001) *J. Leukoc. Biol.* 69, 851–859].

Paper #6 with 89 citations: “Microenvironmental influence on macrophage regulation of angiogenesis in wounds and malignant tumors” by M. Crowther, N. J. Brown, E. T. Bishop, and C. E. Lewis [(2001) *J. Leukoc. Biol.* 70, 478–490].

The *Journal of Leukocyte Biology* continued to improve its standing in 2006. The Citation Index increased from 4.224 to 4.627 for the past year, and the journal’s ranking went from 10th to ninth among the peer-reviewed hematology journals and remained at 10th in the immunology group. Despite the ever-increasing number of journals, we continue to fulfill a need for authors interested in publishing their work about the cell biology of host defense. We continue to invite timely reviews of relevant topics and overviews from plenary and symposium speakers at relevant meetings. Reviews are cited

about three times as often and overviews, twice as often as the unsolicited papers. The number of submitted papers and reviews will exceed 750 this year, and our acceptance rate has risen from 38% to 43%. We prefer to attribute this to receiving higher-quality papers rather than to a reduction in the rigor of our reviewers and editors. Consequently, the number of papers published in 2006 has increased to 317 in 2953 pages. Fortunately, the cost of this increase is covered by page charges, and *Journal of Leukocyte Biology* revenue from color charges, advertising, and copyright royalties will exceed the budget estimates for 2006. *Journal of Leukocyte Biology* is therefore also in good economic shape.

We have initiated publication of interviews of the corresponding authors of papers selected as representing “Pivotal

Advances” under the leadership of our Associate Editor Dr. Helene Rosenberg. We have chosen to do this to reveal more of the background, personal attitudes, and goals of the contributing scientists in an effort to supplement the rather impersonal scientific reports in *Journal of Leukocyte Biology*. We hope you enjoy reading these interviews and that they increase your appreciation of your fellow scientists. We greatly appreciate your feedback by e-mails and letters with suggestions for further improvement of *Journal of Leukocyte Biology*.

Sincerely,

Dr. Helene Rosenberg, Associate Editor
Dr. Joost Oppenheim, Editor-in-Chief