

**Who's Who
in Fluorescence 2006**

Who's Who in Fluorescence 2006

by

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To all those who employ fluorescence in their working lives,

We hope you find this volume a useful resource,

Chris D. Geddes and Joseph R. Lakowicz

September 2005

Preface

The Who's Who in Fluorescence 2006 is the 4th volume of the Who's who series. The previous three volumes (2003 - 2005) have been very well received indeed, with 1000's of copies being distributed around the world, through conferences and workshops, as well as through internet book sites.

In the last 3 years a great many of you have sent comments and suggestions, we thank you all. We have tried to accommodate many of these into the new 2006 volume. This new 2006 volume features some 366 entries from no fewer than 36 countries. We have received 48 new entries this year, and deleted 62 entries that were not updated by contributors from past years. Some older entries were also retained by the editors. In addition, we have a continued strong company support, which will enable us to further disseminate the volume in 2006. In this regard we especially thank the instrumentation companies for their continued support, where without their financial contributions; it is likely that the volume would not be the success it is today.

We introduced a new author publication statistic into the 2005 volume, the Author Impact Measure (AIM) number. While voluntary, this number is intended to reflect an author's progress in past years. The AIM number simply summates the *impact number* (from the ISI database) of Journals published in, in that year, multiplied by the frequency of those publications. From those who chose to participate, we can see most impressive AIM numbers, in some instances, greater than 70 for an individual year. Last year, some 37 AIM numbers were submitted and listed, this year, the number submitted has risen to 88.

Finally, we would like to thank Caroleann Aitken for both the architecture and the typesetting of the entire volume in a timely fashion. Thanks also go to Aaron Johnson and Kate Davis at Springer, for helping to make this volume possible, many thanks.

Dr Chris D. Geddes,
Dr Joseph R. Lakowicz,
Baltimore, USA.
October 2005.

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Fluorescent Bioprobes, Membrane Structure and Dynamics.

Research: Probing protein and lipid membrane dynamics with time-resolved fluorescence, phosphorescence and T-T dichroism. Synthesis of new fluorescent labels and probes. Theory of rotational depolarisation of luminescence. Fundamental photochemistry: triplet-triplet energy transfer and excited-state proton transfer. The history of solution fluorescence.

M.P.Lillo, O.Cañadas, R.E.Dale and A.U. Acuña (2003). The location and properties of the Taxol binding center in microtubules: a picosecond study with fluorescent taxoids. *Biochemistry* **41**, 12436-12449.

L.M.Frutos, O.Castaño, J.L Andrés, M.Merchán and A.U. Acuña (2004) A theory of *nonvertical* triplet energy transfer in terms of accurate potential energy surfaces. *J.Chem.Phys.* **120**,1208-1216.

Date submitted: 1st July 2005

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Some topics of interest are the use of lanthanide chemistry, such as dry-reagent chemical technology or NIR emitting lanthanide ions among others, and also the study of new reactions to increase the reactivity of long-wavelength fluorophores. Research is also focused on the development of new homogeneous fluoroimmunoassay methods using kinetic methodology and immunoaffinity chromatography methods with fluorescence detection. These have been applied to different areas such as clinical, environmental and food analysis.

M.P. Aguilar-Caballos and A. Gómez-Hens (2004). Long-wavelength fluorophores: new trends in their analytical use. *Trends Anal. Chem.* **23**(2), 127-136.

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Specialty Keywords: Time-resolved Imaging, Spectroscopy and Microscopy, Fluorescence Lifetime, FRET, FLIM.

TauTec offers state-of-the-art, ultrahigh repetition rate (up to 110MHz), picosecond gated (down to 50ps), gain modulated (up to 1GHz) PicoStar ICCD cameras, ultrafast readout EMCCD cameras, modular multifocal multiphoton TriMScope workstations for real-time 3D fluorescence microscopy with time-lapse, ratio imaging, 2D and 3D kinetics, FLIM, FRET, FRAP, anisotropy and spectral imaging functionalities, TauScope for wide-field time-domain FLIM, LIFA Upgrade for wide-field, frequency-domain FLIM/FRET based on LED excitation, time-gated Raman imaging and spectroscopy systems, plasma kinetics spectroscopy, gating and ranging LIDAR.

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Specialty Keywords: Fluorescent Chemosensors, Molecular Logic Gates, Molecular Devices.

Current interests: Design and synthesis of novel fluorogenic and chromogenic chemosensors for cations, anions and carbohydrates. Novel sensing schemes. Calixarene-based ion-pair sensors and allosterical modulation of binding interactions. Oxidative PET and cation/anion modulation of oxidative PET. Antenna systems. Diazapyrenium-based fluorescent pseudorotaxanes. Novel and efficient sensitizers for photodynamic therapy. Fluorescent chemosensors for dopamine.

C. N. Baki and Engin U. Akkaya (2001). Boradiazaindacene appended calix[4]arene: Fluorescence sensing of pH near neutrality, *J. Org. Chem.* 66, 1512-1513.

B. Turfan and Engin U. Akkaya (2002). Modulation of Boradiazaindacene Emission by Cation Mediated Oxidative PET, *Organic Lett.* 4, 2857-2859.

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Specialty Keywords: Structure, Dynamics, Fluorescence Fingerprints.

We characterize structure and dynamics of proteins. For example, we were able to characterize the global spatial structure of α_1 – acid glycoprotein showing the presence of a pocket where ligands can bind (Albani, 2004, Carbohydrate Research). Also, we showed that the carbohydrate residues of the protein possess a spatial structure (Albani et al. 2000, Carbohydrate Research). Also, we apply fluorescence to characterize species and varieties in animals and vegetals (Albani et al. 2003, Photochem. Photobiol).

J. R. Albani. 2004. Structure and Dynamics of Macromolecules: Absorption and Fluorescence Studies. Book in English (418 Pages) published by Elsevier Sciences Ltd.

J. R. Albani. 2001. Absorption et Fluorescence: Principes et Applications. Book in French (248 pages) published by Lavoisier-Tec et Doc.

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Specialty Keywords: Cell biology-virus Entry, Membranes, Biophysics.

Our domain of research is dealing with the biology of the epithelial cell and its interaction with the virus HIV budding from PBMC infected cell. The formation of a viral synapse between both cells and the different intermediate molecules acting as receptors of the viral envelope has been the topic of our last paper.

Nature, Molecular cell biol. Review. Bomsel M. and Alfsen A. 2003, vol.4 nb.1

HIV-1-infected blood mononuclear cells form an integrin- and agrin-dependent viral synapse to induce efficient HIV-1 transcytosis across epithelial cell monolayer. 2005 Annette Alfsen ¹, Huifeng Yu ¹, Aude Magérus-Chatinet ¹, Alain Schmitt [#], and Morgane Bomsel . Mol.Cell.Biol. ¹

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Specialty Keywords: Cancer, Photodynamic Therapy, Optical Biopsy.

Research interests are photodynamic therapy optimization for oncology patients, refine and improve therapy both by clinical modifications and dosimetry enhancement. We have the largest number of chest wall recurrence patients treated with PDT.

Allison RR, Mota HC, and Sibata CH: Clinical History of PDT in North America: An Historical Overview. *Photodiagnosis and Photodynamic Therapy*, 1, 2005:263-277.

Allison R, Sibata C, Mang TS, Bagnato VS, Downie GH, Hu XH, and Cuenca R: Photodynamic Therapy for Chest Wall Recurrence from Breast Cancer. *Photodiagnosis and Photodynamic Therapy*, 2004, 1,157-171.

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Specialty Keywords: Fluorescence, Data Analysis, FCS.
AIM 2005 = 22.6

Study of the influence of confined media on proton transfer and charge transfer processes. Supramolecular Dynamics. Development and implementation of new data analysis methods for steady state and time resolved fluorescence data.

W. Al-Soufi, B. Reija, M. Novo, S. Felekyan, R. Kühnemuth, and C.A.M. Seidel (2005) Fluorescence Correlation Spectroscopy, a Tool to investigate Supramolecular Dynamics: Inclusion Complexes of Pyronines with Cyclodextrin. *JACS*, **127**, 8775-8784.

B. Reija, W. Al-Soufi, M. Novo, J. Vázquez Tato (2005) Specific interactions in the inclusion complexes of Pyronines Y and B with β -cyclodextrin, *J. Phys. Chem. B*, **109**, 1364-1370.

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Specialty Keywords: Microfluorimetry, Data Analysis, Cell
Physiology.

The current focus is on microfluorimetric determination of membrane microdomains in living cells, the use of fluorescence in the development of electronic biosensors and data analysis of multidimensional fluorescence data surfaces.

J.P. Szubiakowski, R.E. Dale, N. Boens, M. Ameloot (2004) *J. Chem. Phys.* **121** 7829-39.

I. Smets, A. Caplanusi, S. Despa, Z. Molnar, M. Radu, M. vandeVen, M. Ameloot, P. Steels (2004) *Am. J. Physiol.* **286**, F784-F794.

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Imprinted Polymers, Laser-induced Fluorescence.

The Fluorescence Spectroscopy Lab at ERDC is engaged in basic and applied research in fluorescence sensing. This research is focused on the development and modeling of fluorophores for recovery by remote sensing. The Lab guides the development of organic (living) and inorganic materials that may be used for the targeting and detection of harmful agents or environmental threats of relevance to the military or civil communities. The Lab has the capabilities to measure both steady-state and lifetime (decay) fluorescence spectra for fluorophores using state-of-the art spectrometers and lasers including a frequency domain lifetime spectrofluorometers. The Lab has recently incorporated instruments to characterize near infrared fluorescence and apply multi-photon excitation to targets of interest.