"The growing awareness that issues in diagnostic pathology related to standardization, reproducibility, and interpretation of microscopic images could be improved upon by computerized image analysis and quantification have led in the last decades of the 20th century to a very productive area of research devoted to image analysis and quantitative pathology.

Against this background, IOS Press and the International Society for Cellular Oncology have relaunched *Analytical Cellular Pathology* as the platform for publishing high quality papers produced in this second wave of quantitative pathology. In 2010, *Analytical Cellular Pathology* appears as a section in *Cellular Oncology*.”

-- Gerrit Meijer, Editor-in-Chief
A Note About Publication History
IOC Press is pleased to announce that the journal *Analytical Cellular Pathology* (ACP) has resumed publication in 2010 as a section of *Cellular Oncology* (CLO) in order to adequately represent the evolving field of cellular pathology. ACP changed its title and scope in 2005 and was replaced by the journal *Cellular Oncology* (CLO). Forthcoming issues will contain a mix of articles that reflect the expanded scope of ACP as well as contents of the current CLO journal.

*Cellular Oncology* has an Impact Factor of 3.383 (2008) according to Thomson Reuters' Journal Citation Reports 2009. The last Impact Factor issued for *Analytical Cellular Pathology* was 3.053 (2004).

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Aims & Scope

Cellular Oncology
Cellular Oncology publishes scientific contributions from various biomedical and clinical disciplines involved in basic and translational cancer research on the cell and tissue level, technical and bioinformatics developments in this area, and clinical applications. This includes a variety of fields like genome technology, micro-arrays and other high-throughput techniques, genomic instability, SNP, DNA methylation, signaling pathways, DNA organization, (sub)microscopic imaging, proteomics, bioinformatics, functional effects of genomics, drug design and development, molecular diagnostics and targeted cancer therapies, and genotype-phenotype interactions.

A major goal is to translate the latest developments in these fields from the research laboratory into routine patient management. To this end Cellular Oncology provides a platform of scientific information exchange among molecular biologists and geneticists, technical developers, pathologists, (medical) oncologists and other clinicians involved in the management of cancer patients.

Cellular Oncology publishes original papers, rapid communications, topical reviews, technical notes, special reports and letters.

Analytical Cellular Pathology
Analytical Cellular Pathology publishes scientific articles from various disciplines that focus on quantitative aspects of pathology. The emphasis is on the application of physical techniques to the study of cells, tissues, and organs in disease. Pathology initially evolved largely as a qualitative image-based discipline, with some forays into computer-based cytometry and morphometry. More recently, the flourishing of molecular biology has led to a paradigm shift that has changed this approach and rejuvenated the field. The convergence of biomedicine, bioengineering, and sophisticated new tools of mathematical analysis has the potential for yet another revolution towards a more precise and analytic discipline.

Scientists studying fundamental aspects of pathogenesis as well as those interested in translational diagnostic research are increasingly embracing such tools as biomedical photonics, surface resonance phenomena, and impedance tomography, as well as new approaches for ultra-high resolution magnetic resonance. Examples of appropriate articles include those dealing with electromechanical properties of cells utilizing these methodologies as well as multispectral, hyperspectral, and vibrational mode analysis, and a variety of other ways of exploring biophysical manifestations of disease processes. These articles may also be based on computational biology models, but in all cases should be accessible and of interest to an audience consisting of pathologists, cell biologists, and biochemists as well as biomedical engineers. In other words, it is the contribution to the study of pathologic processes that should be emphasized rather than methodological details per se.

The overall intent is to focus on the application of physical techniques, not only for the investigation of fundamental issues of pathogenesis, but also for translational diagnostic research. These latter should be based on novel concepts, novel methodologies, or the novel use of existing methodologies that can lead to enhanced prognosis, as well as therapeutic guidance for the fully personalized and tailored medicine of the future.
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