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## ***Gérard BRUGAL***

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After a Ph.D. in Biology, Gérard BRUGAL decided to create a multi-disciplinary research team involving biologists, pathologists, computer engineers and mathematicians. The team was dedicated to the investigation of computer-based approaches to cell kinetics in cancers.

Starting in 1977, he developed one of the first microscope imaging systems, called SAMBA (System for Analytical Microscopy in Biomedical Applications) still in use in many pathology and research laboratories in Europe and overseas. Pr. Gérard BRUGAL and his group have contributed to the history of "cell measurement" from 1980 to 2000. He constantly promoted the co-operation between medical research on cancer and the parallel developments of computer technologies in imaging, communication (databases and telecommunication) and cognition (medical decision support systems). Because new ideas often depend on technology's state-of-the-art, Pr. Gérard BRUGAL has continuously collaborated with industrial companies (Carl ZEISS, ALCATEL, UNILOG, ROCHE Medical, LEICA, SIEMENS, etc.) in the framework of European funding programs such as HUMAN GENOME, ADVANCED INFORMATICS IN MEDICINE, EUROPE AGAINST CANCER, INFORMATION SOCIETY TECHNOLOGIES, QOL, InfoSoc/IST thus contributing, in collaboration with other European biomedical research institutions, to accelerate the deployment of basic research and technology into the medical application area. He is the author of several new concepts in microscope imaging such as focal plane scanning, HOME microscope to computer interfacing, static assessment of cell kinetics, lens-free microscope.

Pr. Gérard BRUGAL founded the European Society for Analytical Cytology in 1987 and the International Journal « Analytical Cellular Pathology ». He has been the Editor-in-Chief of this journal from 1989 to 1999. He was one the coordinator of the G7/G8 collaboration on Global Healthcare ("Prevention, detection and treatment of cancers").