

## PASSING OF PIONEERS

### Professor Dr. Rubens Carlos Mayall (1917-2004)



*Señor Académico*  
*Doctor Rubens Carlos Mayall*

Dear Professor,

Years have gone by. Indeed.

I had the privilege and opportunity of meeting you in 1975 in Rio de Janeiro – International Congress of Lymphology – ISL. You, President, distinction and service. Since then, your image, your personality, and friendship have accompanied me, master and friend. I owe you gratitude for your greatness.

You were always concerned about the new generations – you welcomed them, listened to them, and more than once, honored them. You pointed out paths – always present as protagonist in action and creativity in the world of Lymphology, as well as in the context of Angiology.

You always had time – for all and for those who believed they did not.

Exemplary father, in the difficult way of life; you had the pleasure of family recognition, with love, together with sincere affection – even when in sad loneliness.

You distinguished your country as Academic, Titular member of the national Academy of Medicine, you introduced peers with enthusiastic generosity and who recognized your way. You taught, rare virtue, distinctive of the great. Your dear Valença University, far away, on the mountains – the mysterious whisper of the tropical jungle, and the marvelous sunrise conjuring up ideas and projects.

You worked – all your life – in every sense.

The time to rest arrived. In silence you have left. Peace.

Years have gone by. Indeed.

I send respectfully, with sadness and affection, this letter, to my, and our great friend.

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On June 29, 2004, Rubens Carlos Mayall passed away at the age of 86 in Rio de Janeiro. Further details of his life and many accomplishments will appear in the December 2004 issue of *Lymphology* which will be devoted to “Consensus and Dissent” on the Consensus Document of the ISL: The Diagnosis and Treatment of Peripheral Lymphedema.

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### Professor Carla Marchetti, M.D. (1948-2001)



The memory of Prof. Carla Marchetti, Full Professor of Histology at the University of Pavia is as vivid as ever amongst colleagues and friends who knew her personally. Carla Marchetti passed away after a long and terminal disease which she faced unflinchingly and with great courage. She died at the early age of 53 and was a person of great interior wealth.

As a young researcher at the Institute of Normal Human Anatomy, she joined a small group that founded the Institute of General Histology and Embryology in 1972. She was to share her academic life with them for thirty years. By her constant endeavours and commitment, Carla Marchetti contributed significantly to the development as well as scientific and academic progress of the Institute of General Histology and Embryology of the University of Pavia.

In her scientific work, Carla Marchetti carried out important field research on initial lymph vessels and their important role. She demonstrated the role of these vessels from

both a morphological and functional point of view and related it to the presence in the endothelium of agents regulating the transit of liquids, macromolecules and cells. Carla Marchetti was able to bring together a highly motivated research group, which in a short space of time attained international acclaim.

Her research in lymphology spanned over twenty years: starting from her initial work on the localization, identification and distribution of the small lymphatic vessels of the heart, she was to publish extensively on the ultrastructure of the lymphatics in the other organs. These morphological studies, both in adults and during development, defined the histological and cytological characteristics of the lymph vessels in the myocardium, salivary glands, skin, diaphragm and dental pulp. In the course of her studies, she was able to describe the characteristics of the lymphatic endothelium involved in transendothelial transport and the interaction between the endothelial cells. She highlighted the complexity and plasticity of this exchange with particular reference to intercellular junctional systems. In this research, conducted under different physiological and experimental conditions, the dynamics of lymphatic structures and the role of intercellular junctions in regulating the activity of lymphatic vessels emerged clearly. By analyzing dynamic events, she was therefore able to relate their morphology to transendothelial transport mechanisms and to lymphogenesis in body organs.

Also of great interest was her research with the objective of histochemically characterizing the microfilaments anchoring the lymph epithelium to the extracellular

matrix. By studying the ultrastructural localization of the elastin surrounding lymph vessels in human organs, Carla Marchetti demonstrated, also quantitatively, that the elastin component associated to the microfilaments was distributed differently according to the organ. From the overall results she gathered, Carla Marchetti was able to formulate the hypothesis that elastic fibers did not play a fundamental role in lymphogenetic mechanisms.

In the latter period of her research on lymphology, Carla Marchetti focused on identifying structures and molecules having a specific function in the dynamics of endothelial cells. In a series of studies conducted under both normal and experimental conditions on the localization of the Weibel-Palade bodies, endothelin-1, nitric oxide synthetase and multimerin, all potentially vaso-active substances, Carla Marchetti showed how these substances actively

regulated the endothelium in relation to lymphogenesis and lymph drainage.

Carla Marchetti also expressed her qualities through her lecturing. She constantly dedicated her energies to her students and stimulated enthusiasm for scientific research.

In this brief commemoration we would like to express our sincerest thanks to all the colleagues and friends who admired and appreciated Carla Marchetti for her professional qualities and held her in high esteem, and who, in witnessing her gentleness sustained by a strong and tenacious character, perceived great human virtue.

**Alberto Calligaro, Full Professor of  
Histology**  
**Paola Poggi, Full Professor of Human  
Anatomy**  
**Department of Experimental Medicine**  
**University of Pavia, Italy**