

Special Issue

The 20th Anniversary of the Discovery of the Scaffolding Function of the Sodium Pump by Dr. Zijian Xie

Message from the Guest Editors

The discovery of Na/K-ATPase by Skou led to speculation that signaling through this protein as an ion pump resulted from the inhibition or stimulation of its ion pumping function. In the late 1990s, Dr. Zijian Xie formulated a hypothesis that much of the signaling function of Na/K-ATPase was related to the scaffolding function of the alpha1 subunit, as well as the associated increases in reactive oxygen species, rather than its better understood ion pumping function. This has led to an increase in our understanding of the signaling partners for Na/K-ATPase, as well as its protean involvement in mammalian cell biology. In this Special Issue, we celebrate the two-decade anniversary of this discovery, with papers that review observations related to this scaffolding/signaling function.

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