

ion channel localization methods pdf

Cancer is a disease with marked heterogeneity in both response to therapy and survival. Clinical and histopathological characteristics have long determined prognosis and therapy.

Ion channel expression as promising cancer biomarker

Annexin is a common name for a group of cellular proteins. They are mostly found in eukaryotic organisms (animal, plant and fungi). In humans, the annexins are found inside the cell. However some annexins (Annexin A1, Annexin A2, and Annexin A5) have also been found outside the cellular environment, for example, in blood.

Annexin - Wikipedia

Influenza A virus (IAV) hemagglutinin binds to the voltage-dependent Ca²⁺ channel Ca_v1.2. Ca_v1.2 knockdown inhibits IAV-induced Ca²⁺ oscillations and virus internalization. Sialylation of Ca_v1.2 is critical for hemagglutinin binding and IAV infection. The Ca²⁺ channel blocker diltiazem inhibits IAV infection in vivo and ex vivo

A Sialylated Voltage-Dependent Ca²⁺ Channel Binds

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The microstructure evolution of pure Mg and two Mg–rare-earth alloys (Mg–3 wt.% Dy and Mg–3 wt.% Er) was studied during in situ compression tests by electron backscatter diffraction and electron channelling contrast imaging.

CPFEM, strain map. crystal plasticity, crystal plasticity

Electrical impedance tomography (EIT) is a noninvasive type of medical imaging in which the electrical conductivity, permittivity, and impedance of a part of the body is inferred from surface electrode measurements and used to form a tomographic image of that part. Electrical conductivity varies considerably among various biological tissues (absolute EIT) or the movement of fluids and gases ...

Electrical impedance tomography - Wikipedia

The inherent specificity and electrochemical reversibility of enzymes poise them as the biorecognition element of choice for a wide range of metabolites. To use enzymes efficiently in biosensors, the redox centers of the protein should have good electrical communication with the transducing electrode, which requires either the use of mediators or tedious biofunctionalization approaches.

Direct metabolite detection with an n-type accumulation

A SPECIAL ISSUE Advances in Quantum Simulators and Quantum Design Guest Editors: Hisazumi Akai, Wilson Agerico DiÁo, Koichi Kusakabe, Tsuyoshi Miyazaki, Yoshitada Morikawa, Susumu Okada, and Tomoya Ono J. Comput.

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Vol.7, No.3, May, 2004. Mathematical and Natural Sciences. Study on Bilinear Scheme and Application to Three-dimensional Convective Equation (Itaru Hataue and Yosuke Matsuda)

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Research Summary. My current research is at the intersection of communication theory, signal processing, and information theory. A primary research thrust is the advancement of MIMO (multiple-input multiple-output) communication technology including space-time coding, efficient receiver algorithms, channel quantization, synchronization, scheduling algorithms, cross-layer design for MIMO ad hoc ...

Resume - Prof. Robert W. Heath Jr.

As an essential component of the Materials Genome Initiative aiming to shorten the period of materials research and development, combinatorial synthesis and rapid characterization technologies have been playing a more and more important role in exploring new materials and comprehensively understanding materials properties.

Chin. Phys. B

A review of protein quantitation assays and a survey about the protein assays based on 194 formal publications.

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Electrical Engineering and Computer Science (EECS) spans a spectrum of topics from (i) materials, devices, circuits, and processors through (ii) control, signal processing, and systems analysis to (iii) software, computation, computer systems, and networking.

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