CHAPTER 5

BIOPHYSICS

Doctoral Thesis

035. BANERJEE (Jyotirmoy)
Biophysical and Electrophysiological Studies of Ion Channels Involved in Brain Cell Death.
Supervisor : Prof. Subhendu Ghosh
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Abstract

The investigation gives an insight into the mechanism of of cytochrome c mediated cell death. It explains the role VDAC, Bax, tBid and plasminogen in the apoptotic machinery and how phosphorylation of VDAC by PKA could be a mechanism for regulation of cytochrome c mediated cell death. Also noise analysis, fractal analysis and relaxation analysis was used to study the gating dynamics of VDAC.

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