Cardiac Arrhythmias and Neuromuscular Channelopathies

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Ion channels serve many functions including electrical signal transduction, chemical signaling, transepithelial transport, regulation of cytoplasmic or vesicular ion concentration and pH, and regulation of cell volume. Thus the defects in ion channel will lead to many diseases. The list of human diseases associated with abnormal ion channels keeps growing. This presentation gives a short overview of two major groups known channelopathies: cardiac arrhythmias and neuromuscular disorders, and focuses our recent findings on genetic and genomic studies and their clinical applications.

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