

Pattern Classification Duda Second Edition 2001

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the first edition published in 1973 has become a classic reference in the field now with the second edition readers will find information on key new topics such as neural networks

and statistical pattern recognition the theory of machine learning and the theory of invariances also included are worked examples comparisons between different methods extensive graphics expanded exercises and computer project topics an instructor's manual presenting detailed solutions to all the problems in the book is available from the wiley editorial department

Ca₂ signaling in neurons is characterized by highly restricted and dynamic gradients called Ca₂ waves spikes transients and puffs depending upon their corresponding spatial and temporal features based on this strict segmentation the Ca₂ ion provides a versatile basis for signaling in neuronal subcompartments with a spatial resolution of micro and nanodomains the multitude of Ca₂ regulated processes requires specialized downstream translating the Ca₂ signal into alterations of cellular processes the broad range of different Ca₂ triggered phenomena in neurons ranging from neurotransmission to gene expression is reflected by the existence of a multitude of different Ca₂ binding proteins (CaBPs) from which those belonging to the EF hand superfamily. EF hand proteins can be subdivided into Ca₂ buffer and Ca₂ sensor proteins whereas the first group has a very high conformational change in the Ca₂ bound state and is thought to mainly chelate Ca₂ the second group has a lower affinity for Ca₂ and shows considerable conformational changes upon Ca₂ binding which usually triggers a target interaction. Neuronal calcium sensor (NCS) proteins and the related caldendrin (CaBP) calneuron (NCaBP) proteins are members of this latter group. They resemble the structure of their common ancestor calmodulin (CaM) with four EF hand Ca₂ binding motifs of which not all are functional; however, despite their structural homology with CaM NCS as well as NCaBPs are quite diverse in amino acid sequence. It is therefore surprising that relatively few binding partners have been identified that are not CaM targets and this raises the question of the specificity and function of these interactions in terms of function. Binding of NCS and NCaBP has frequently different consequences than binding of CaM which substantially increases the versatility of the Ca₂ tool kit. The general idea of this special issue is to provide an overview on the function of neuronal EF hand calcium binding proteins in health and disease but we will not just provide a mere collection of articles to stress the function of each protein. The issue will mainly deal with emerging concepts on Ca₂ signaling buffering mediated by EF hand Ca₂ binding proteins. This includes questions like features that define the functional role of a EF hand calcium sensor in neurons the conditions that make physiological relevance of a given interaction of a CaBP with its target plausible the emerging synaptic role of these proteins and mounting evidence for their role in the regulation of protein trafficking structural aspects and biophysical studies will be covered. Another aspect will be the role of CaBPs in brain disease states this

aspect includes studies showing that cabs are targets of drugs in clinical use studies showing that expression levels of calcium binding proteins are frequently altered in brain disease states as well as reports on mutations in ef hand calcium sensors linked to human disease

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