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Altri autori (Persone)	ChadwickDerek GoodeJamie
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Nota di contenuto	THE hERG CARDIAC POTASSIUM CHANNEL: STRUCTURE, FUNCTION AND LONG QT SYNDROME; Contents; Participants; Chair's introduction; Gating and assembly of heteromeric hERG1a/1b channels underlying I (Kr) in the heart; Discussion; Structure-function studies of the outer mouth and voltage sensor domain of hERG; Discussion; General discussion I; Voltage sensor movement in the hERGK(+) channel; Discussion; hERG channel trafficking; Discussion; Dynamic control of hERG/I(Kr) by PKA-mediated interactions with 14-3-3; Discussion; General discussion II Does hERG coassemble with a b subunit? Evidence for roles of MinK and MiRP1Discussion; hERG block, QT liability and sudden cardiac death; Discussion; Structural determinants for high-affinity block of hERG potassium channels; Discussion; Physicochemical basis for binding and voltage-dependent block of hERG channels by structurally diverse drugs; Discussion; In silico modelling-pharmacophores and hERG channel models; Discussion; The long QTsyndrome: a clinical

counterpart of HERG mutations; Discussion; Cellular mechanisms of Torsade de Pointes; Discussion  
Expression and role of hERG channels in cancer cells Discussion; TRlad: foundation for proarrhythmia (triangulation, reverse use dependence and instability); Discussion; Drug-induced QT interval prolongation: regulatory guidance and perspectives on hERG channel studies; Discussion; Closing remarks; Index of contributors; Subject index

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**Sommario/riassunto**

This book draws together contributions from basic, pharmaceutical and clinical sciences aimed at a better understanding of the structure and function of hERG and the molecular basis for compound binding. It features regulatory authority perspectives on preferred preclinical test systems and includes topics on hERG channel gating, regulation of functional expression, pharmacological properties of hERG/IKr channels, drug-induced long QT syndrome and preclinical evaluation and regulatory recommendations for assessing QT prolongation risks. Better understanding of the role of the hERG channe

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