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细 胞凋亡 (apoptosis) 是细 胞一 个 有 润 的生理性自行消亡过程正在凋亡的细 胞形 态 发生 明显 的变 化 如 胞质 和 核浓缩 (condensation) 胞膜和核膜变皱 (shrinkage) 并起 泡 (blebbing) 核DNA断 裂 (fragmentation) 并降解 (degradation) 不管是内 源性 因素 还是 外源性因

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**НЯКОИ ЦИТИРАНИЯ В ДИСЕРТАЦИИ**


