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- (1) Flow Cytometry-Fluorescence Measurements for Characterizing Sperm.
U.S. Patent No. 4,559,309; Issued Dec. 17, 1985
- (2) Method for Separating and Analyzing Nucleic Acids.
U.S. Patent No. 4,801,550; Issued Jan. 31, 1989
- (3) Detection of Halogenated Precursors Incorporation by Selective Photolysis of Halogenate-Substituted Bases
U.S. Patent No. 5,747,258, Issued May 5, 1998
- (4) Methods for Labeling DNA Ends with Halogenated Nucleotides and Detecting the Same with Antibodies ,
U.S. Patent No. 5,912,126, Issued June 15, 1999
- (5) Physical Separation of Nucleic Acids by Antibodies to Halogenated Nucleotides.
U.S. patent No. 6,417,343, issued July 9, 2002.
- (6) Flow Cytometric Methods for the Concurrent Detection of Discrete Functional Conformations of pRB in Single Cells.
U.S. patent No. 6,821,740, issued November 23, 2004.

PI positive/Annexin V negative events are most likely mechanically damaged cells that lost most of its plasma membrane, or just isolated (naked) nuclei. Multiple centrifugations, especially at high rpm, and when cells are not suspended in media with serum or with serum albumin, may lead to mechanical stripping of plasma membrane and nuclear isolation.