



	DEFECTED CELL REMOVAL			
Identification of cancer stem cells markers in various types of tumors	Methods of cell removal		Stem cell biomarkers	Optimal mic
Population homogenity Molecular mechanisms of cancer stem cell population stability Signaling mechanisms of self renewal and tumorigenesis Reduction of the number of anergic killer T-cells	Target therapy Cells as carriers of therapeutic agents Agents: Antibodies Genes Fluorochromes for photo- dynamic therapy Pharmaceuticals	Apoptosis activation Activation of apoptosis though signaling pathways Direct activation of proapoptotic proteins, "death receptors" and suppression of the apoptosis inhibitors activity	Specific markers of cellular surface	Optimal microenvironme cultivating (ni Impact of adh sion molecul and extracellu matrix protei on the aging r of SC (P-selec
Reduction of the amount of macrophages in visceral adipose tissues Markers of senescent cells Possible markers of defected cells to remove: • • Telomerase reactivation, • • Decreased levels of repair, • • Increase in oxidative DNA damage and inactivation of tumor supression	Suicide gene therapy Elimination of cells based on activation of angiogenesis	Immune response stimulation humanized antibodies Study of the mechanisms of tumor cell sustainability on of antigens of nted cells Adaptive T-cell therapy	In vitro culturing New strategies in cell acquisition Search for new sources in the body New methods of SC selection out of cell mass	Organo-specific growth factors (LG EGF, FGF, HGF, IGF VEGF, BNDF, Epo, GCSF, GMCSF, etc.