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cytotoxic means that a substance or process can damage cells or cause them to die cyto means cell and toxic means poison you might hear the word when talking about chemotherapy drugs that kill cancer cells it can also describe other toxins like venom from snakes cytotoxicity is the quality of being toxic to cells examples of toxic agents are toxic metals toxic chemicals microbe neurotoxins radiation particles and even specific neurotransmitters when the system is out of balance whilst toxicity is a more general term for how harmful a substance is to an organism cytotoxicity is the term for how toxic a substance is to cells a cytotoxic compound can cause cell damage a frequent use of cells in culture is for a commonly used cytotoxicity assay where cells are exposed to a test compound and after some period of incubation a marker is measured to reflect the number of viable cells present compared to positive toxin and negative vehicle control treatments the reduction in the number of viable cells may result from two major processes inhibition of cell metabolism and or proliferation cytostatic effect or actual cell death cytotoxic cytotoxicity cytotoxicity refers to the toxic quality that a substance presents to the body s cells the toxicity of a substance can impact a cell in various ways leading to although natural killer nk cells and some cd4 t cells are also endowed with cytotoxic activity here we mainly discuss cytotoxicity mediated by classical cytotoxic cd8 t cells also a substance or process that causes cell damage or death is referred to as cytotoxic cyto meaning cell and toxic meaning poison cells exposed to cytotoxic compounds may undergo necrosis uncontrolled cell death apoptosis programmed cell death autophagy or stop actively growing and dividing to decrease cell proliferation cytotoxic t cells can induce target cells to undergo programmed cell death cells can die in either of two ways physical or chemical injury such as the deprivation of oxygen that occurs in heart muscle during a heart attack or membrane damage with antibody and complement leads to cell disintegration or necrosis cytotoxic predictions highlight many kinases including the potentially novel cytotoxicity related target stk32c while cytostatic predictions outline targets linked with response to dna damage metabolism and cytoskeletal machinery cell toxicity is caused by exogenous toxicant which can damage cells especially when the toxicant can cause cell death and serious organ dysfunction 1 the effects of a toxicant are usually dose dependent and species specific cytotoxic effects on cancerous and non cancerous cells of trans cinnamaldehyde carvacrol and eugenol scientific reports article open access published 11 august 2021 cytotoxic cell cytotoxicity and proliferation assays are generally used for drug screening to detect whether the test molecules have effects on cell proliferation or display direct cytotoxic effects regardless of the type of cell based assay being used it is important to know how many viable cells are remaining at the end of the experiment abstract cytotoxicity is one of the most important indicators for biological evaluation in vitro studies in vitro chemicals such as drugs and pesticides have different cytotoxicity mechanisms such as destruction of cell membranes prevention of protein synthesis irreversible binding to receptors etc cytotoxicity studies are a useful initial step in determining the potential toxicity of a test substance including plant extracts or biologically active compounds isolated from plants cytotoxicity definition identification and cytotoxic compounds october 2019 publisher intechopen isbn 978 1 78984 755 0 authors erman salih istifli cukurova university citations 1 when designing and performing cytotoxicity and cell viability assays various factors including drug solvents concentration of herbal extracts or natural compounds drug exposure duration optimization of cell seeding density and assay timing have crucial roles in the reliability and reproducibility of results formation and cytotoxicity of halophenylacetamides a new group of nitrogenous aromatic halogenated disinfection byproducts in drinking water shaoyang hu han yeong kaw lizhong zhu and wei wang cite this environ sci technol 2022 56 5 3181 3192 publication date february 17 2022 doi org 10 1021 acs est 1c08419 cytotoxicity of nanoparticles small 2008 jan 4 1 26 49 doi 10 1002 smll 200700595 authors nastassja lewinski 1 vicki colvin rebekah drezek affiliation 1 department of bioengineering ms 142 rice university po box 1892 houston tx 77251 1892 usa pmid 18165959 doi 10 1002 smll 200700595 abstract full article large scale isolation and cytotoxicity of extracellular vesicles derived from activated human natural killer cells journal of extracellular vesicles volume 6 2017 issue 1 open access 6 101 views 142 crossref citations to date 0 altmetric listen original research article

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cytotoxicity is the quality of being toxic to cells examples of toxic agents are toxic metals toxic chemicals microbe neurotoxins radiation particles and even specific neurotransmitters when the system is out of balance

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whilst toxicity is a more general term for how harmful a substance is to an organism cytotoxicity is the term for how toxic a substance is to cells a cytotoxic compound can cause cell damage

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a frequent use of cells in culture is for a commonly used cytotoxicity assay where cells are exposed to a test compound and after some period of incubation a marker is measured to reflect the number of viable cells present compared to positive toxin and negative vehicle control treatments

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the reduction in the number of viable cells may result from two major processes inhibition of cell metabolism and or proliferation cytostatic effect or actual cell death cytotoxic

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although natural killer nk cells and some cd4 t cells are also endowed with cytotoxic activity here we mainly discuss cytotoxicity mediated by classical cytotoxic cd8 t cells also

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a substance or process that causes cell damage or death is referred to as cytotoxic cyto meaning cell and toxic meaning poison cells exposed to cytotoxic compounds may undergo necrosis uncontrolled cell death apoptosis programmed cell death autophagy or stop actively growing and dividing to decrease cell proliferation

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cytotoxic t cells can induce target cells to undergo programmed cell death cells can die in either of two ways physical or chemical injury such as the deprivation of oxygen that occurs in heart muscle during a heart attack or membrane damage with antibody and complement leads to cell disintegration or necrosis

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cytotoxic predictions highlight many kinases including the potentially novel cytotoxicity related target stk32c while cytostatic predictions outline targets linked with response to dna damage metabolism and cytoskeletal machinery

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cell toxicity is caused by exogenous toxicant which can damage cells especially when the toxicant can cause cell death and serious organ dysfunction 1 the effects of a toxicant are usually dose dependent and species specific

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cytotoxic

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cell cytotoxicity and proliferation assays are generally used for drug screening to detect whether the test molecules have effects on cell proliferation or display direct cytotoxic effects regardless of the type of cell based assay being used it is important to know how many viable cells are remaining at the end of the experiment

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abstract cytotoxicity is one of the most important indicators for biological evaluation in vitro studies in vitro chemicals such as drugs and pesticides have different cytotoxicity mechanisms such as destruction of cell membranes prevention of protein synthesis irreversible binding to receptors etc

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cytotoxicity studies are a useful initial step in determining the potential toxicity of a test substance including plant extracts or biologically active compounds isolated from plants

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when designing and performing cytotoxicity and cell viability assays various factors including drug solvents concentration of herbal extracts or natural compounds drug exposure duration optimization of cell seeding density and assay timing have crucial roles in the reliability and reproducibility of results

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