

Genetically Modified Cell-based Therapy Naming Scheme

Recently there have been revisions in naming genetically modified cell-based therapies. In the past, these types of therapies were named as cellular therapies using the infix "-gen-" for cells that were transduced with a gene.

The Office of Cellular, Tissue and Gene Therapies (OCTGT) group of the FDA, the USAN Council and the INN agreed to use a 2-word naming scheme for genetically modified cell-based therapies. The first word is to be the same as the gene therapy first word for the gene. The second word suffix is "-cel" and a cell type infix is included before the "-cel" ending.

As shown below, both words will only contain one infix.

First Word: Corresponds to the Gene Component

Prefix: Random to contribute euphonious and distinctive name.

Infix: To identify the gene using existing infixes for biological products or using a similar infix for the protein for which the gene codes:

- ald- adrenoleukodystrophy (ALD) protein
- beglo- ?A-t87Q-globin
- bermin- vascular endothelial growth factor
- cabta- cell expressed antibody and T cell activation
- cima- cytosine deaminase
- ermin- growth factor
- etid- eczema-thrombocytopenia-immunodeficiency syndrome
- far- interferon

- fermin- fibroblast growth factor
- kin- interleukins
- lim- immunomodulator
- lip- human lipoprotein lipase
- mul- multiple genes
- naco- coagulation factor IX
- nad- NADH dehydrogenase
- nermin- tumor necrosis factor (TNF)
- octoco- coagulation factor VIII
- pap- human papilloma virus
- papkino- human papilloma virus and IL-2
- permin- hepatocyte growth factor
- repi- REP-1 gene
- reti- retinal pigment
- semn- SMN
- stim- colony stimulating factor
- tima- thymidine kinase
- tusu- tumor suppression

Suffix: - (a vowel) gene: e.g., -(o)gene

Second Word: Corresponds to the Vector and Cell Component

Prefix: Random to contribute euphonious and distinctive name.

Infix: Cell type; reference USAN/INN infix for cell type:

- ada- adenosine deaminase
- co(n)- chondrocytes
- den- dendritic cells
- end(o)- endothelial cells
- ep(a)- hepatocytes
- fi(b)- fibroblasts
- isle- islet cells
- ker(a)- keratinocytes
- leu- lymphocytes/monocytes/ APC (white cells)
- mestro- mesenchymal stromal cells
- mio(b)- myoblasts
- ova- ovary cells
- pla(c)- placental cells
- ren- renal tubular cells
- ret- retinal cells
- tem- stem cells
- tesi- testis cells
- tu- tumor cells
- ubi- umbilical cord cells (formerly -cor-)
- ur- urothelial cells

Suffix: -cel