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 genetically modified cell-based therapies. 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-throbocytopenia-immunodeficiency syndrome
- **-far-** interferon

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-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.

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**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


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Suffix: -cel