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-throbocytopenia-immunodeficiency syndrome
- **-far-**  interferon

URL: https://www.ama-assn.org/about/united-states-adopted-names/genetically-modified-cell-based-therapy-naming-scheme
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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
-reni- 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*