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

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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.
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

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