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Pre-stems:*
Suffixes used in the selection of INN
April 2016

Programme on International Nonproprietary Names (INN)

Technologies Standards and Norms (TSN)
Regulation of Medicines and other health technologies (RHT)

World Health Organization,
Geneva

**The prestems given have been flagged because they may be selected as official stems ("The use of stems in the selection of International Nonproprietary Names for Pharmaceutical Substances", 2013, WHO/EMP /RHT/TSN/2013.1). At present, they are made available for information and potential guidance to the applicants.*

stem	*definition*

-suffix

-infix-

In bold: new pre-stems selected during the last Consultation.
<u>In bold and underlined</u>: newly promoted stems
<u>Underlined</u>: modified pre-stem definition

-algron	α_1-adrenoreceptor agonists
-ampator	α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor modulators
-axomab	see *mab*
-berel	beta estrogen receptor agonists
-brutinib	see *tinib*
-caftor	cystic fibrosis transmembrane regulator (CFTR) protein modulators
-calcet/-calcet-	calcium-sensing receptors (CaSR) agonists
-camra	intracellular adhesion molecule (ICAM-1) derivatives
-casan	caspase inhibitors
-caserin	serotonin receptor agonists (mostly 5-HT_2)
-catib	cathepsin inhibitors
-cetrapib	cholesteryl transfer protein (CETP) inhibitors
-closporin	ciclosporin derivatives
-codar	see *dar*
-corat	glucocorticoid receptor agonists
-cridar	see *dar*
-dacin	antibiotics, DNA gyrase and topoisomerase IV inhibitors
-dar	*drugs used in multidrug resistance*
-cri-	acridinecarboxamide derivatives
-co-	pipecolinate derivatives
-spo-	ciclosporin D derivatives

-deqib	**SMO receptor antagonists**
-depsin	depsipeptide derivatives
-dil	*vasodilators*
-sudil	Rho protein kinase inhibitors
-domide	antineoplastics, thalidomide derivatives
-dustat	see *stat*
-ectedin	ecteinascidin derivatives
-espib	heat shock protein (HSP) 90 inhibitors (other than *–mycin*), antineoplastics
-estrant	estrogen antagonists
-fadine	monoamine transport inhibitors
-farnib	farnesyl transferase inhibitors
-fibatide	see *tide*
-fulven	antineoplastic, acylfulvene derivatives
-gacestat	see *-stat*
-ganan	antimicrobial, bactericidal permeability increasing polypeptides
-gepant	calcitonin gene-related peptide receptor antagonists
-gapil	neuronal apoptosis inhibitors, GAPDH
-imepodib	inosine monophosphate dehydrogenase inhibitors
-imod	immunomodulators, both stimulant/suppressive and stimulants
-tolimod	**toll-like receptors (TLR) agonists**
-inurad	**urate transporter inhibitors**
-isant	**histamine H_3 receptor antagonists**
-ixibat	ileal bile acid transporter (IBAT) inhibitors, bile acid reabsorption inhibitors

-kalner	openers of calcium-activated (maxi-K) K^+-channels
-laner	antagonists of GABA (gamma-aminobutyric acid) regulated chloride channels, antiparasitic agents
-leptin(e)	leptin derivatives
-mab	*monoclonal antibodies*
under species	
-axo-	rat-murine hybrid antibodies
-vet-	veterinary use
under targets	
-am(i)-	serum amyloid protein (SAP)/amyloidosis
-gr(o)-	skeletal muscle mass related growth factors and receptors
-melanotide	*see tide*
-metinib	see *tinib*
-moren	non-peptidic growth hormone secretagogues
-nesib	kinesin inhibitors
-neurin	neurotrophins
-nexor	**nuclear export inhibitors**
-nil	*benzodiazepine receptor antagonists/agonists*
-punil	mitochondrial benzodiazepine receptor (MBR)- selective agonists also partial or inverse (purine derivatives)
-opran	μ-opioid receptors antagonists
-orexant	orexin receptor antagonists
-osuran	urotensin receptor antagonists
-otilate	hepatoprotectants, diisopropyl-1,3-dithiol-malonate derivatives
-parantag	antagonists of heparin and/or low-molecular weight heparins (LMWH)
-paxar	protease activated receptor type 1 (PAR1) antagonists
-pirdine	serotonin receptor antagonists

-plasinin	inhibitors of plasminogen activator inhibitors-type 1 (PAI-1)
-prazan	**proton pump inhibitors, not dependent on acid activation**
-prinim	nootropic agents, purine derivatives
-protafib	**protein tyrosine phosphatase (HPTP) inhibitors**
-punil	see *nil*
-reotide	**see *-tide***
-siban	oxytocin antagonists
-sidenib	**isocitrate dehydrogenase inhibitors**
-spodar	see *dar*
-stat-/-stat	*enzymes inhibitors*
-dustat	hypoxia inducible factor (HIF) prolyl hydroxylase inhibitors
-gacestat	gamma-secretase inhibitors
-stinel	NMDA receptor antagonists/partial agonists
-sudil	see *dil*
-sulind	antineoplastics, sulindac metabolites *exisulind (80)(42)*
-tansine	**maytansinoide derivatives, antineoplastics**
-tegravir	see *vir*
-terone	*antiandrogens*
-teronel	non-steroid antiandrogens