All the things you always wanted to know about INNs



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Agenda

- Who is WHO?
- The INN: what it is and does
- The pharma trademark: what it is and does
- INN and Trademarks: allies or aliens?
- What's new from WHO's side?
- Similarity Assessments
- •Q&A

Disclaimer

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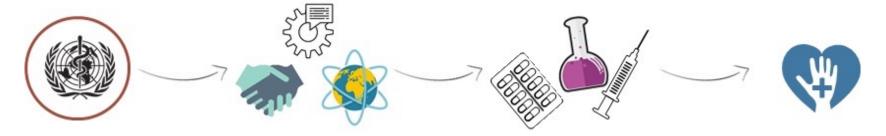
World Health Organization

WHO is a specialised agency of the UNs serving as the directing and coordinating authority for international health matters and public health on behalf of its 194 Member States.

WHO is operating at 3 levels, HQ in Geneva, 6 regional offices and 150 country offices Principle objective - the attainment by all people of the highest possible level of health.

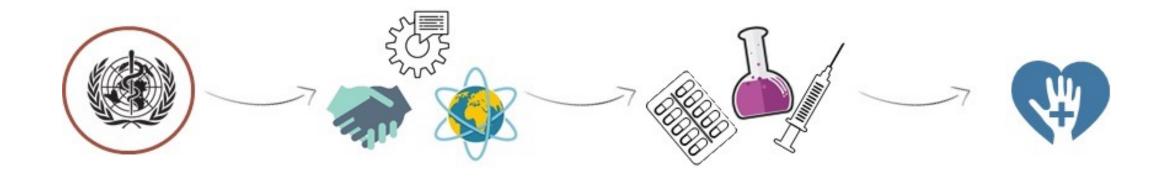
WHO is responsible for providing leadership on global health matters, shaping the health research agenda, **setting norms and standards**, articulating evidence-based policy options, providing technical support to countries and monitoring and assessing health trends.

Setting norms and standards and promoting their implementation is affirmed as a core function of WHO.



Norms & Standards: WHO Core Business

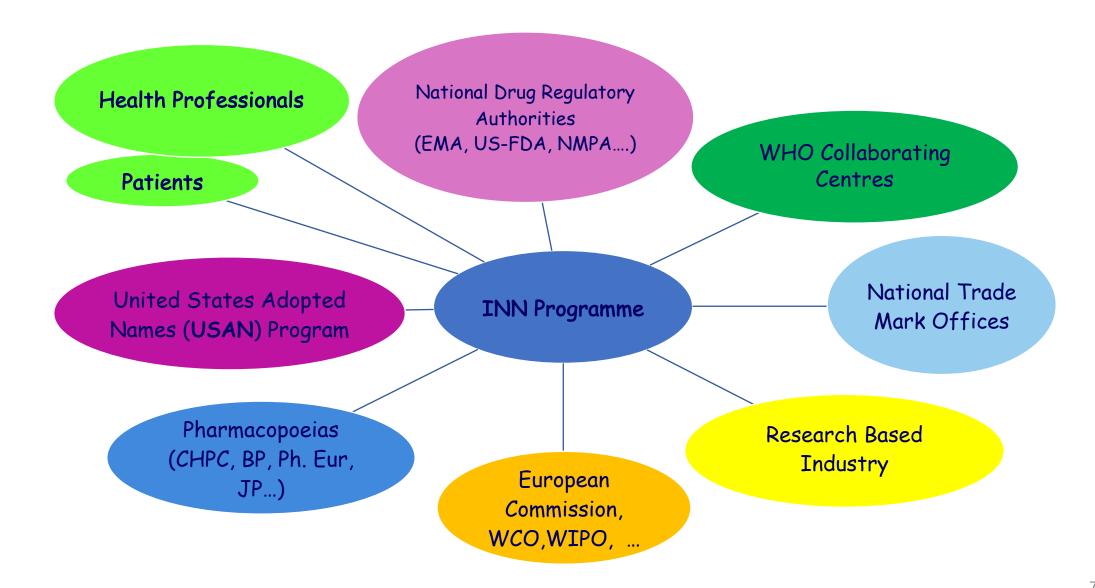
The Constitution requires WHO" to develop, establish and promote INTERNATIONAL STANDARDS with respect to biological and pharmaceutical products".



International Nonproprietary Name (INN)

- Unique name
- Distinctive in sound and spelling
- Not liable to confusion with other names in common use
- Formally placed by WHO in the public domain
- Can be used without any restriction to identify pharmaceutical substances

INN Stakeholders



INN

Ebola



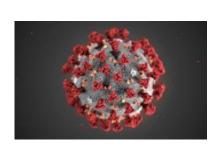
galidesivir

Hepatitis C



sofosbuvir (now in EML)

COVID-19



tozinameran, elasomeran

Nonproprietary Name & Proprietary Name (valsartan) (Diovan®)

Identifies active pharmaceutical ingredient



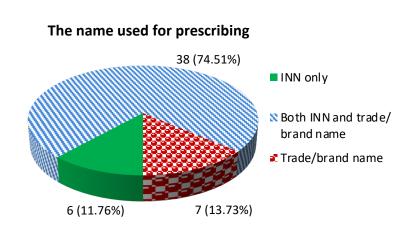
®/™ identifies product of a specific source

In most Member States, INN are used for prescribing

WHO Drug Information, Vol.35No.4, 2021 - WHO Drug Information - Volume 35, No. 4

- INN are mandatory in Armenia, Estonia, Panama, Peru, Russian Federation and Zimbabwe.
- Brand / trade names are obligatory in Croatia, Czech Republic, Denmark, India, Nepal, Sudan and Sweden.



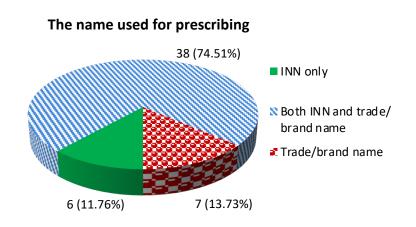


INN in USA, Switzerland and Greece

WHO Drug Information, Vol.35No.4, 2021 - WHO Drug Information - Volume 35, No. 4

• INN and brand names can be used in **USA**, **Switzerland** and **Greece** for prescription, however in Greece brand name's use is restricted,





INN is a global name for the entire lifecycle of a molecule

thalidomide (8)(4)



Contergan[®] ... And Immunoprin[®], Talidex[®], Talizer[®], Neurosedyn[®], Distaval[®] and many others

One INN can get various Trademarks

Global mark in Transplantation





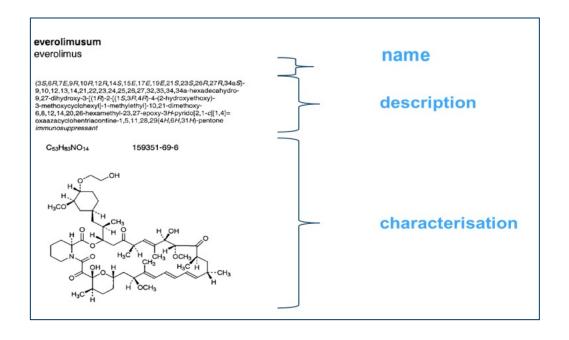
2nd indication: diff. Strength in Onco





2nd Onco Indication in EU

Comparison



Passport / Trilogy of the INN: Name (in 6 languages) + Description (IUPAC name) + Characterisation; change in Characterisation may affect the name! Available for anybody's use as long as all 3 components apply.



AFINITOR

Reg. No. 3,778,903 NOVARTIS AG (SWITZERLAND CORPORATION)

CH 4002

Registered Apr. 20, 2010 BASEL, SWITZERLAND

Int. Cl.: 5 FOR: PHARMACEUTICAL PREPARATIONS FOR USE IN ONCOLOGY, IN CLASS 5 (U.S.

CLS. 6, 18, 44, 46, 51 AND 52).

TRADEMARK FIRST USE 3-30-2009; IN COMMERCE 3-30-2009

PRINCIPAL REGISTER THE MARK CONSISTS OF STANDARD CHARACTERS WITHOUT CLAIM TO ANY PAR-

TICULAR FONT, STYLE, SIZE, OR COLOR

OWNER OF U.S. REG. NOS. 3,216,047, 3,454,162, AND OTHERS.

THE WORDING "AFINITOR" HAS NO MEANING IN A FOREIGN LANGUAGE

SN 77-540,495, FILED 8-6-2008.

Analogy: Name + Description of protected scope + bibliographic data consisting of owner, birthdate & nr.

INN & Trademarks are 2 different Species



Z

- Unique Identifier of the active molecule; scientific concept
- Eternal Vehicle for Patient Safety



- Trademark
- Unique Identifier of the origin; legal concept

Eternal Vehicle for Quality

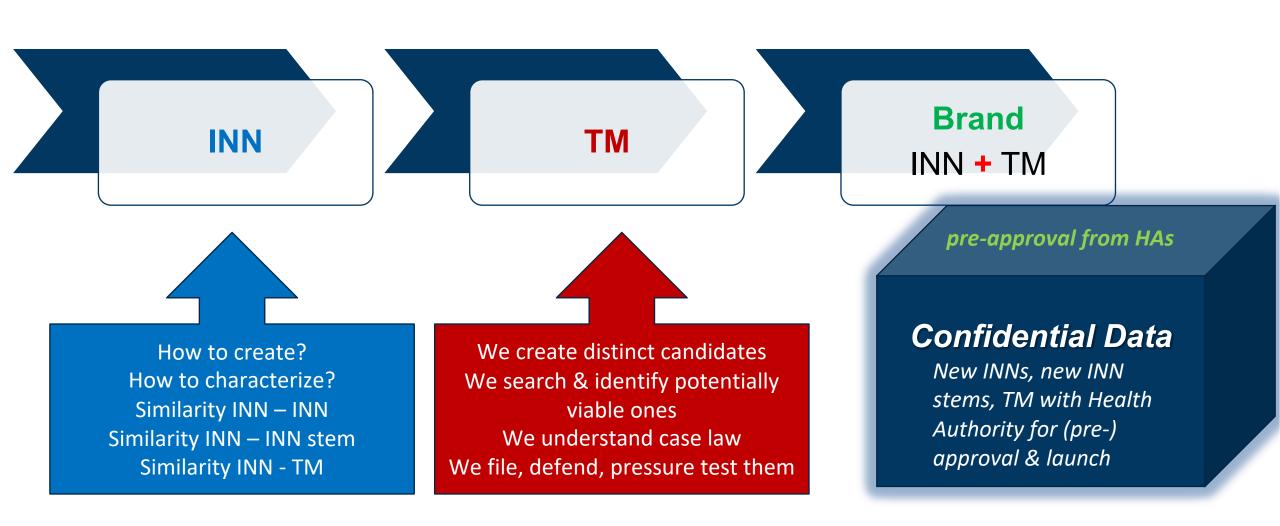


- Product
- Keep them separate; do not add or remove any letters (Proper Trademark Use = Proper INN Use)
- Blurring /
 Mixing them
 results in
 redundancy
 and risks

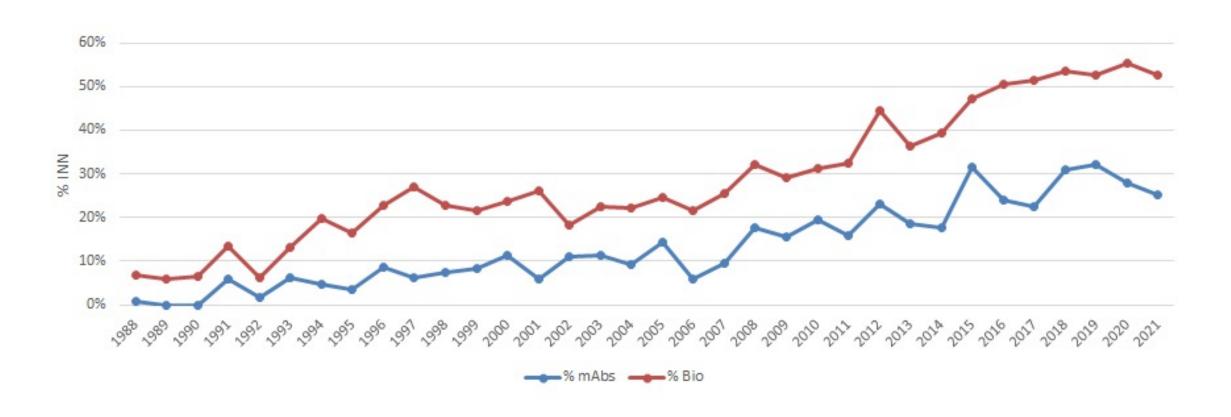




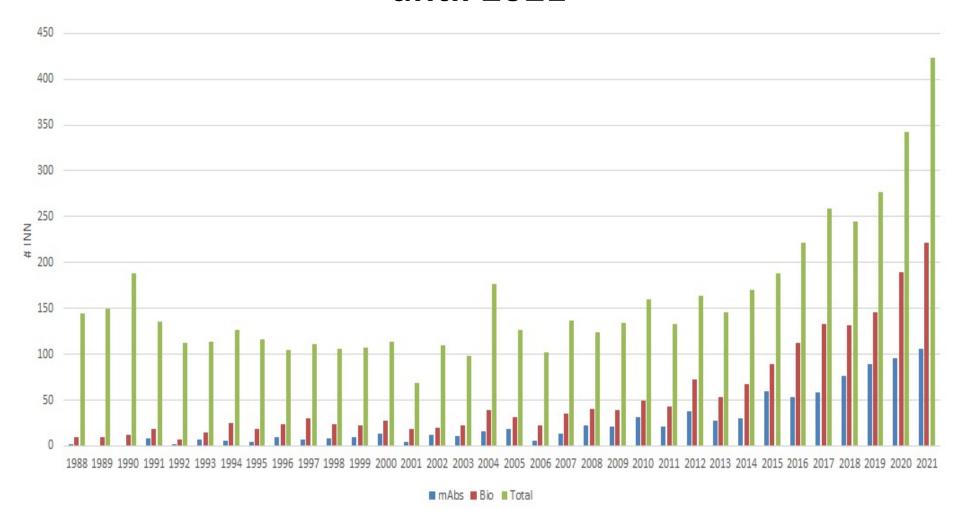
Where INN & TM fit in the drug development path



Percentage of published INN for biological requests and monoclonal antibodies through the years.



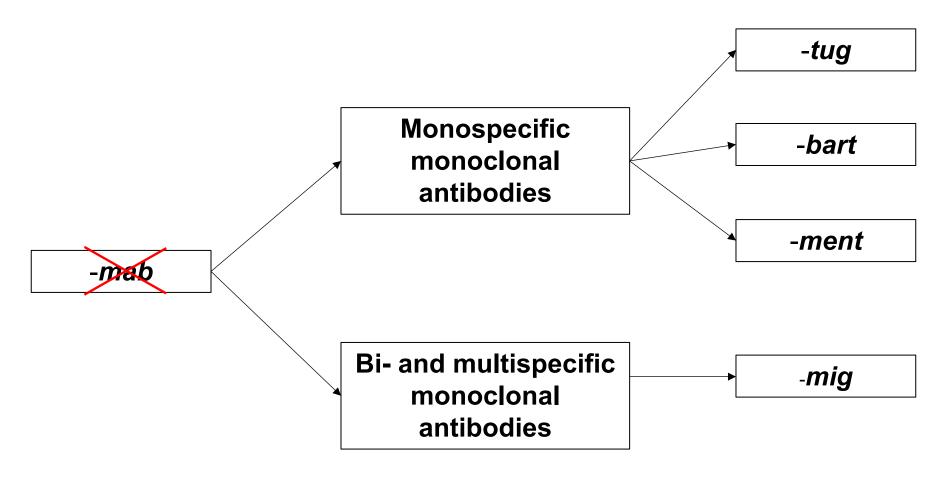
879 INN with the stem -mab have been assigned until 2021



Discontinuing the stem "-mab" and its replacement with four new stems

New INN nomenclature for monoclonal antibodies - The Lancet

Full article: International nonproprietary names for monoclonal antibodies: an evolving nomenclature system (tandfonline.com)



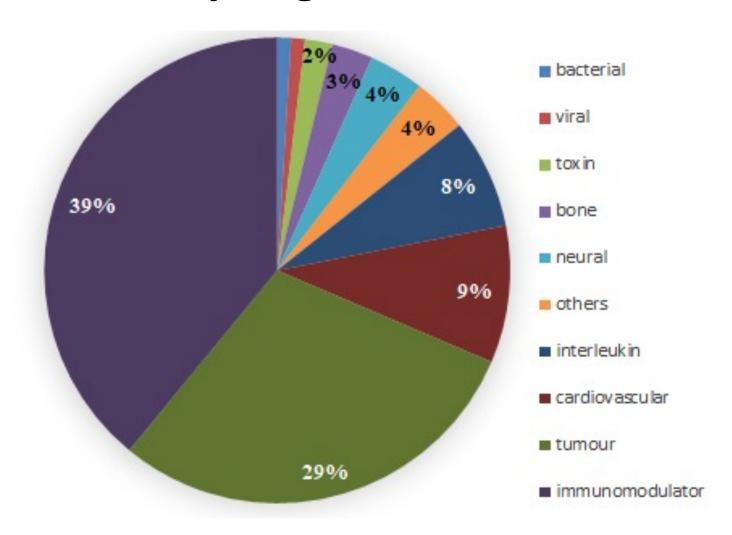
And new stem categories like:

- tug
- bart
- ment
- mig

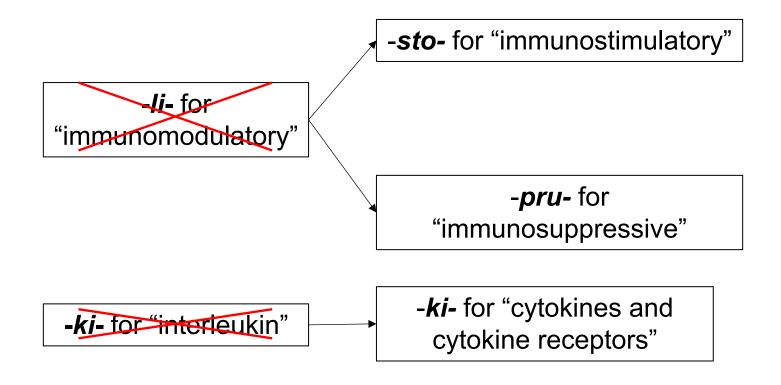


- > Can we object?
- > How to conceive?

Marketed INN for monoclonal antibodies by target infix.



Further changes to infixes

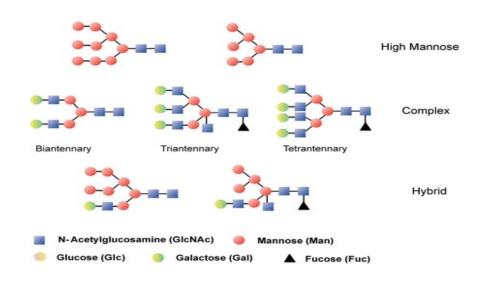


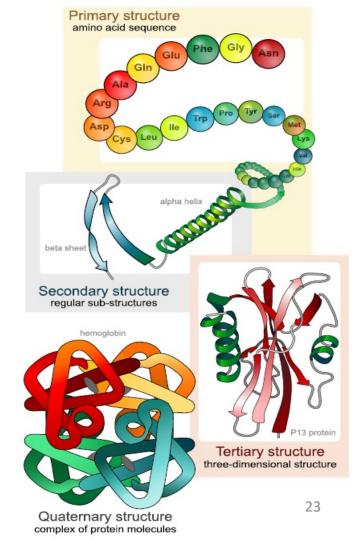
INN Working Doc. 22.542: New INN nomenclature scheme for monoclonal antibodies

Background BQ

Biotherapeutic proteins are very different to chemical medicines::

- Size
- Complexity structure

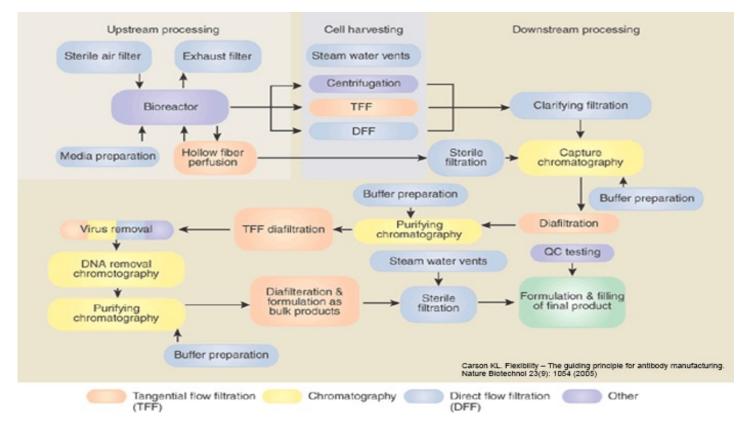




Background BQ

Biotherapeutic proteins are very different to chemical medicines::

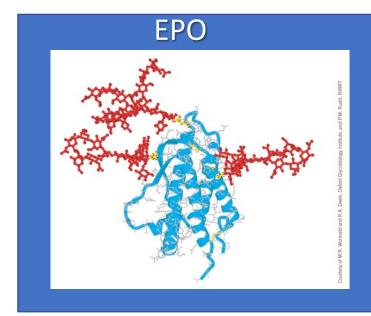
- Size
- Complexity structure
- Complexity manufacture



Background BQ

Biotherapeutic proteins are very different to chemical medicines::

- Size
- Complexity structure
- Complexity manufacture
- Heterogeneity



- Mass = 27948±285 deglycosylated 18240±4
- 2 disulphide bonds
- 3 N-glycosylation
- 2 O-glycosylation sites
- Many types of glycans
- C-terminal truncation

Even the most controlled biotechnological process produces a spectrum of 100 000s of molecules – all potentially having different activity, circulatory half-life and potential to induce an immune reaction. Therefore every different process effectively produces a different product.

National biological identifier schemes

NRA (Country)	Issue	Approach	Pros and Cons
FDA (USA)	Pharmacovigilance of all new biological medicines	Addition of a four-letter (with vowels) suffix hyphenated to USAN (e.g. infliximab-dyyb or -abda & epoetin alfa-epbx).	Simple and easy to administer. Use of vowels incompatible with BQ. At least one suffix is commercial (–sndz).
EMA (European Union)	Pharmacovigilance of all new biological medicines	No separate scheme, use of tradenames & 2D barcode tracing is sufficient.	2D barcode more complex & expensive to implement esp. in developing countries.
PMDS (Japan)	Distinguishing biosimilar from reference medicines	Addition of suffix (BS1, BS2 etc.) for biosimilars.	Simple. Potential for confusion with many biosimilars
TGA (Australia)	Distinguishing a medicine with differing glycosylation profile.	Insistence on the use of a different Greek letter to that assigned by WHO.	Non-compliance with WHO naming convention.

WHO International Nonproprietary Name

Because INNs are allocated on the basis of the amino acid sequence, the sole use of the INN is not able to distinguish between these differing products.

It was concluded that some kind of distinguishing identifier should be used with the INN. In July 2014 a proposal was published for a Biological Qualifier (BQ). After extensive consultation, the Proposal was finalised in June 2015 and adopted in April 2016, but was shelved shortly afterward.

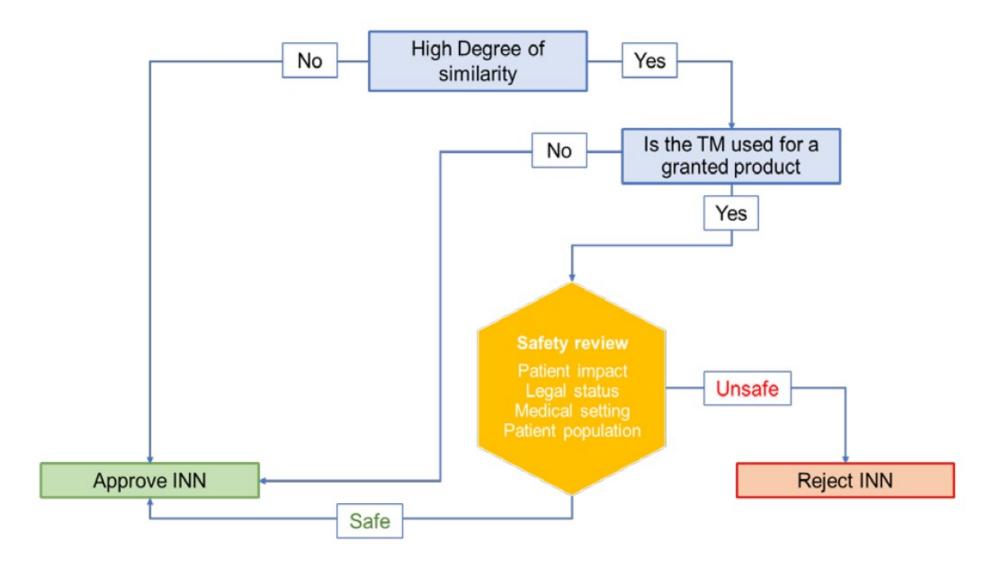
The aim of the BQ is to uniquely identify ALL biological medicines with a unique code.

Similarity

➤ When is similar too similar? And in what pronunciation? Human or artificial?

Same stem category	Different stem category	Overall similarity
Rodabrutinib/radotinib	ersodetug / erzotabart	avapritinib – evo brutinib
Vialumab/avelumab	tinodasertib / tinocabtagene autoleucel	Axal® - axaltenibart (alprazolam)
Bafilumab/namilumab	Vidofludimus / vidoflufolastat (18F)	Bevit® - bevitug (thiamine hydrochloride)
Rivulumab/rilotumumab	Ronactolol / ronacaleret	
	Alirenitide / alizapride	

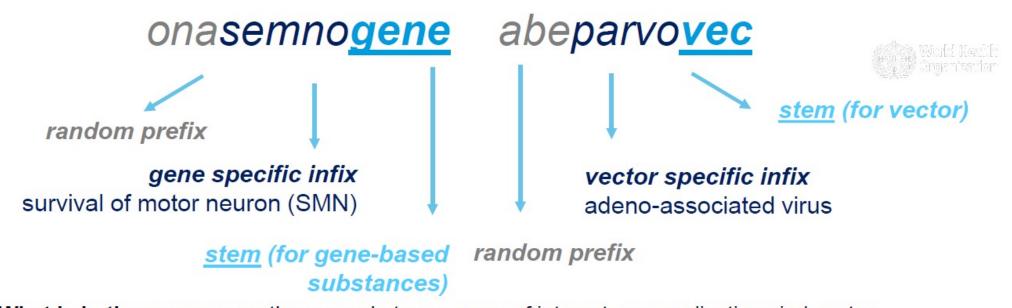
WHO's Flowchart





Nomenclature scheme for gene therapy substances

Two-word scheme



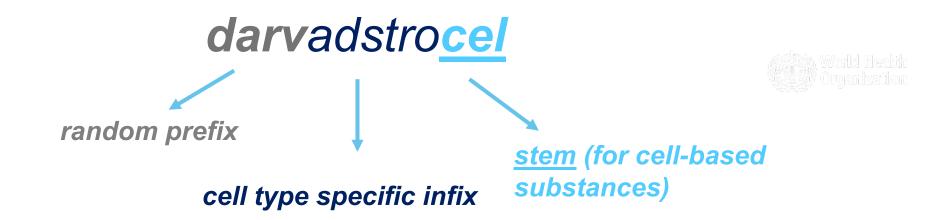
What is in the name: gene therapy substance, gene of interest, non-replicating viral vector, virus vector type

What is not included: details of the vector

Nomenclature scheme for <u>cell therapy</u> substances



One-word scheme



What is in the name: cell therapy substance, not genetically manipulated, primary cell type

What is not included: autologous or allogeneic substance, cell manipulation, composition of the final cell substance





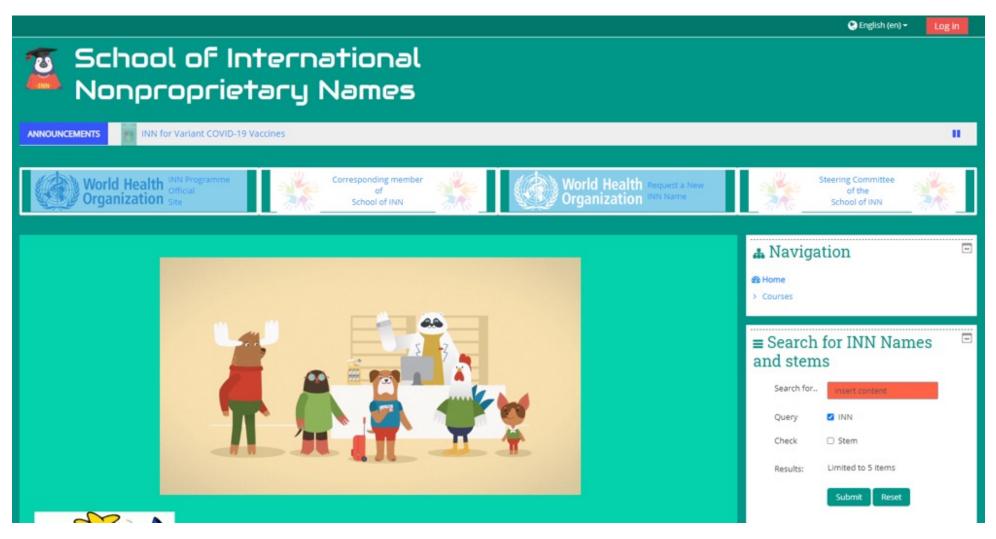




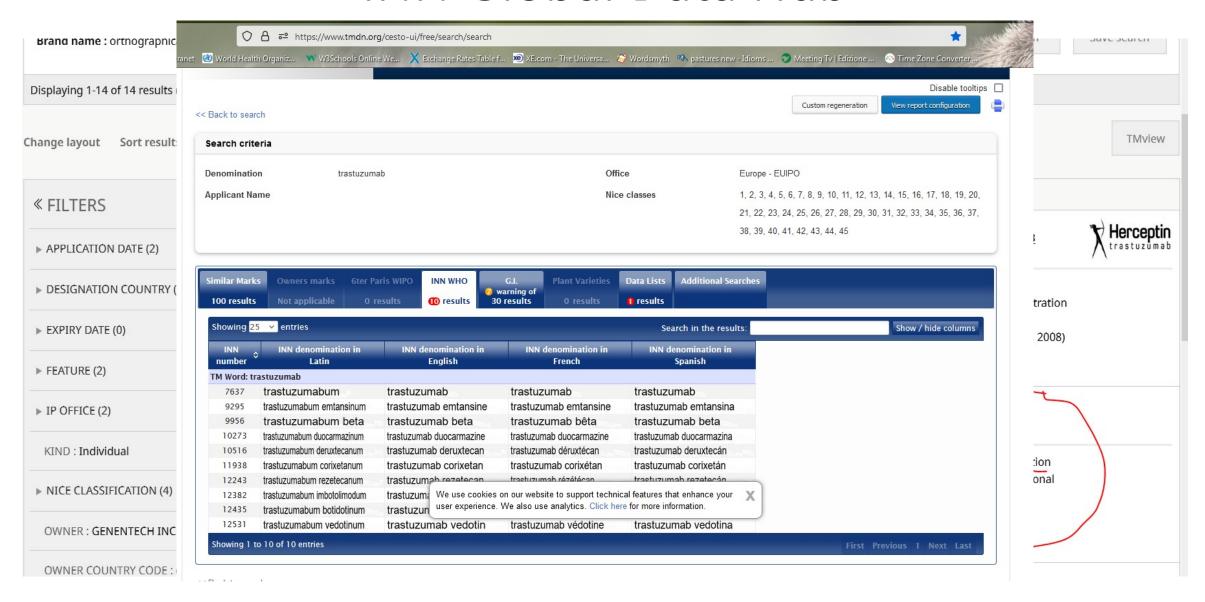
School of INN (SolNN) Platform 💯



https://extranet.who.int/soinn



INN Global Data Hub



INN MedNet

- Mednet Search Tool https://extranet.who.int/soinn/
- On-line queries of WHO INN data for lists of Proposed and Recommended INN Example: "beglogene"

		INN N°	Substance name click to see names in multiple languages	Proposed list	Recommended list
	•	10505	betibeglogene darolentivec	<u>116</u>	<u> 78</u>
		10900	betibeglogene autotemcel	<u>125</u>	<u>86</u>
		11826	lovotibeglogene autotemcel	<u>125</u>	<u>187</u>
ישו		12025	nulabeglogene autogedtemcel	<u>126</u>	12

WHO Drug Information: https://www.who.int/teams/health-product-and-policy-standards/inn/inn-lists/

What's in an International Non-Proprietary Name?

12102 volamcabtagene durzigedleucel 126 128 12108 laruparetigene zovaparvovec 1210 126 138 12109 ixoberogene soroparvovec 1217 1389 12119 dalucabtagene autoleucel 126 138 12142 equecabtagene autoleucel 127 1389 12143 cretostimogene grenadenorepvec 1217 1389 12186 anbalcabtagene autoleucel 127 1389 12196 linvekinogene treniplasmid 127 1389 12208 varnimcabtagene autoleucel 127 1389 12215 satricabtagene autoleucel 127 1389 12220 alvamemugene sulseparvovec 127 1389 12221 alvamemugene sulseparvovec 127 1389 12222 esepapogene zalarnarepvec 127 1389 12224 esepapogene zalarnarepvec 127 1389 12225 seglebegagene dasniparvovec 127 1389 12226 alnugranogene aldeparvovec 127 1389 12227 crosigalcogene omlixparvovec 127 1389 12228 pomlucabtagene autoleucel 127 1389 12229 pomlucabtagene autoleucel 127 1389 12226 pomlucabtagene autoleucel 127 1389 12226 trentelectogene empogeditemcel 127 1389 1226 umitrelimorgene autoleucel 127 1389 1226 1227 1227 1228 1226 1227 1228 1228 1226 1227 122				
12109	12102	volamcabtagene durzigedleucel	<u>126</u>	<u> 188</u>
12119 dalucabtagene autoleucel	12108	laruparetigene zovaparvovec	<u>126</u>	<u>88</u>
12142 equecabtagene autoleucel	12109	ixoberogene soroparvovec	<u>127</u>	
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12248 zocaglusagene nuzaparvovec 127 89 12254 pomlucabtagene autoleucel 127 89 12261 vixicovtogene oboplasmid 126 88 12263 tremtelectogene empogeditemcel 127 89	12226	alnugranogene aldeparvovec	<u>127</u>	
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12261 vixicovtogene oboplasmid 126 88 12263 tremtelectogene empogeditemcel 127 89	12248	zocaglusagene nuzaparvovec	<u>127</u>	<u>89</u>
12263 tremtelectogene empogeditemcel	12254	pomlucabtagene autoleucel	<u>127</u>	
	12261	vixicovtogene oboplasmid	<u>126</u>	<u> 188</u>
12276 umitrelimorgene autodencel	12263	tremtelectogene empogeditemcel		<u>89</u>
	12276	umitrelimorgene autodencel	<u> 127</u>	1 89

Do these really meet the objectives to simplify identification?

If the nomenclature imposes '-cabtagene autoleucel' — we can create xyzcabtagene autoleucel only?

Results Counter (max 850) = 25

	INN N°	Substance name click to see names in multiple languages	Proposed list	Recommended list
W	11110	tebrocabtagene autoleucel	<u>121</u>	<u> 83</u>
W	<u>11131</u>	ciltacabtagene autoleucel	<u>122</u>	<u> 184</u>
	11274	orvacabtagene autoleucel	<u>122</u>	1 84
	11372	relmacabtagene autoleucel	<u>123</u>	<u> 85</u>
	11437	gavocabtagene autoleucel	<u>123</u>	<u> 85</u>
	11486	obecabtagene autoleucel	<u>123</u>	<u>85</u>
	11574	zamtocabtagene autoleucel	<u>124</u>	<u>186</u>
	11704	zevorcabtagene autoleucel	<u>125</u>	<u> 187</u>
	11832	acmucabtagene autoleucel	<u>125</u>	<u>187</u>
W)	<u>11886</u>	brexucabtagene autoleucel	<u>125</u>	1 87
	<u>11887</u>	itezocabtagene autoleucel	<u>125</u>	<u> 87</u>
	<u>11931</u>	plixacabtagene autoleucel	<u>126</u>	<u> </u>
	11974	rapcabtagene autoleucel	<u>126</u>	<u> </u>
	12119	dalucabtagene autoleucel	<u>126</u>	<u> 188</u>
	12142	equecabtagene autoleucel	<u>127</u>	<u> 189</u>
	12186	anbalcabtagene autoleucel	<u>127</u>	<u> 189</u>
W	12208	varnimcabtagene autoleucel	<u>127</u>	<u> 189</u>
	12215	satricabtagene autoleucel	<u>127</u>	<u> 89</u>

These lengthy INN result in INN Abbreviations

2. Tumor-Specific CAR-T Cell Immunotherapy

2.1. Hematologic Malignancies

Since the first FDA approval in 2017, there are five CAR-T cell therapies are available to date. They are tisagenlecleucel (tisa-cel, Novartis: refractory and relapsed (r/r) B-ALL, r/r DLBCL, CD19-41BB-CD3z CAR-T, cryopreserved PBMC), axicabtagene ciloleucel (axicel, Kite Pharma: r/r DLBCL, CD19-CD28-CD3z CAR T, fresh PBMC), brexucabtagene autoleucel (brex-cel, Kite Pharma: r/r mantle cell lymphoma, CD19-CD28-CD3z CAR T, enriched T cell), lisocabtagene maraleucel (liso-cel, Juno Therapeutics & Bristol Myers Squibb: r/r DLBCL, CD19-41BB-CD3z CAR T, 1:1 mixture of CD4:CD8 T cell), and idecabtagene vicleucel (ide-cel, Bristol Myers Squibb: r/r MM, BCMA-41BB-CD3z CAR T, CD8 T cell) [5]. CAR-T cells developed by Kite Pharma, axi-cel and brex-cel, consist of CD28



Sponsors & Journals abbreviate them!

Chimeric antigen receptor (CAR) T-cell therapies are adoptive cell immunotherapies that have led to remarkable patient outcomes and transformed the treatment landscape in relapsed or refractory (R/R) B-cell malignancies and multiple myeloma [1,2,3,4,5]. Currently, 6 CAR T-cell products are approved by the Food and Drug Administration (FDA): tisagenlecleucel (tisa-cel; Kymriah®), axicabtagene ciloleucel (axi-cel; Yescarta®), brexucabtagene autoleucel (brex-cel; Tecartus®), lisocabtagene maraleucel (liso-cel; Breyanzi®), idecabtagene vicleucel (ide-cel; Abecma®), and ciltacabtagene autoleucel (cilta-cel; Carvykti®).

Problematic Result:

tisagenlecleucel

lisocabtagene maraleucel





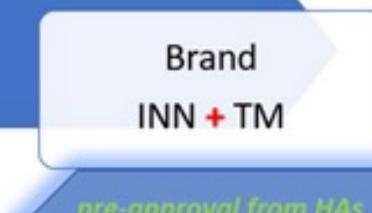


evencaleucelum evencaleucel

autologous lymphocytes enriched in activated natural killer cells (NK), derived from peripheral blood mononuclear cells (PBMCs). The cells are cultured in medium supplemented with human serum and interleukin 2 (IL-2), and activated by addition of the anti-CD3 antibody *muromonab-CD3*. At least 10% of the cells are NK cells (CD3-CD56+), but the substance also contains T cells (CD3+CD56-) and NK-like T cells (CD3+CD56+). At least 30% of the NK cells show cytotoxic activity and respond in a functional test against the leukemia cell line K562 with surface expression of lysosomal-associated membrane protein 1 (LAMP-1, CD107a). *cell therapy (antineoplastic)*



That black box is a real concern!





Confidential Data

New INNs, new INN stems, TM with Health Authority for (pre-) approval & launch

We are Allies – not Aliens!

- FDA, EMA and INN Experts all have access to confidential information:
 - to be launched product identifiers (trademarks)
 - to be published INN data (INN stems/substems, pINN).
- WHO's policy to compare to *in market* trademarks only remains a concern. A pINN can be amended with less effort than a close to launch trademark.
- INN / stems that are published later than the trademark has been filed should not be a stumbling block for a launch trademark. The trademark should actually prevail in the regulatory review. The 'grace period of non-use' governing trademark oppositions could also be respected in INN TM conflicts.
- Adoption of a conflicting non-proprietary name or stem can destroy exclusivity of a pre-approved trademark & jeopardize uniqueness of both

Trademarks derived from INN...

Numéro de dépôt : TN/E/ 2022/76

Date de dépôt : 09/02/2022

Titulaire: SUN PHARMACEUTICAL INDUSTRIES

LIMITED

Adresse: 1 rue de Stockholm F-75008 Paris, France

Mandataire: Abdelmattaleb NASR

NASRIP, Carthage Innovation, Ecole Polytechnique de

Tunisie BP 743, La Marsa 2070 - Tunisie

Produits ou services désignés :

Classe 5 Préparations et substances pharmaceutiques; préparations et substances médicinales;

Tipo de Marca: Marca de Fábrica y Comercio Signo solicitado:

VALSAN

Clasificación internacional de Niza:

Clase: 5

Productos/Servicios:

Productos farmacéuticos del sistema nervioso central.

Número de expediente: 2022-002863

Fecha de Presentación de la Solicitud: 8 de noviembre del 2022.

El presente aviso tiene una vigencia de 15 días hábiles, contados, a partir de su entrega. Emitido en la ciudad de Managua, Nicaragua siete de diciembre, del año dos mil veintidos. Opóngase. Registrador.



ROSUVAS

rosuvastatinum rosuvastatin	(3R,5S,6E)-7-[4-(p-fluorophenyl)-6-isopropyl-2-(N-methylmethane sulfonamido)-5-pyrimidinyl]-3,5-dihydroxy-6-heptenoic acid antihyperlipidaemic
rosuvastatine	acide (3R,5S,6E)-7-[4-(4-fluorophényl)-6-(1-méthyléthyl)-2-[méthyl (méthylsulfonyl)amino]pyrimidin-5-yl]-3,5-dihydroxyhept-6-énoïque antihyperlipidémiant

rosuvastatina ácido (3*R*,5*S*,6*E*)-7-[4-(*p*-fluorofenil)-6-isopropil-2-(*N*-metilmetano sulfonamido)-5-pirimidinil]-3,5-dihidroxi-6-heptenoico antihiperlipémico

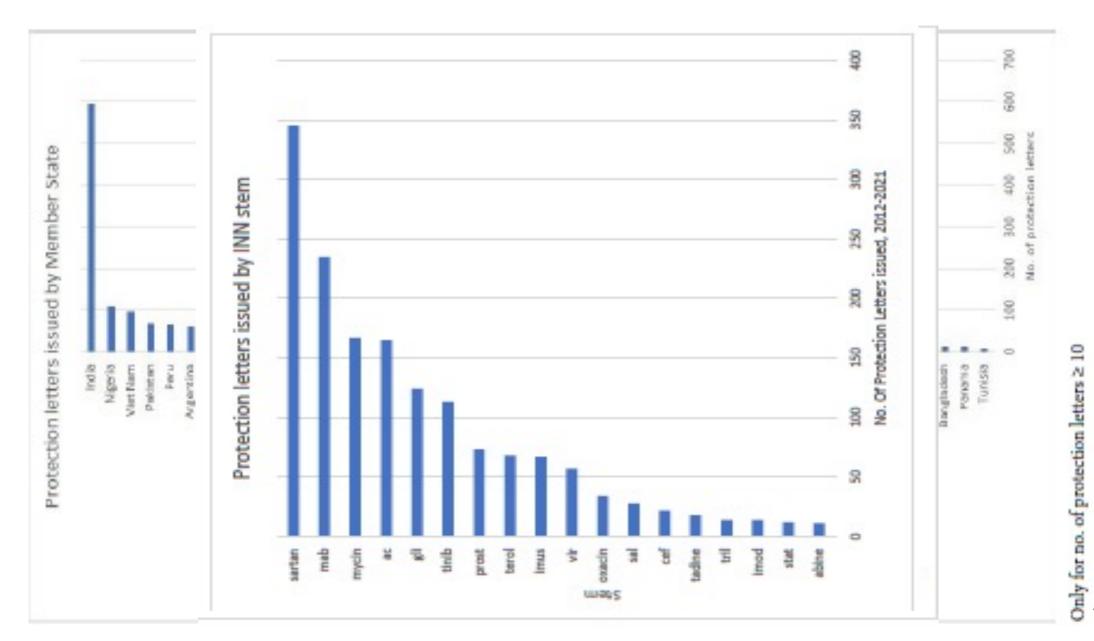
valsartanum valsartanum valsartanum valsartanum valsartanum valsartanum valsartanum valsartan

N-{p-(o-1H-tetrazol-5-ylphenyl)benzyl}-N-valeryl-t-valine C₂₄H₂₉N₅O₃ 137862-53-4

antihypertensive valsartanum vals

... violate the scientific concept, the legal concept AND the trilogy of the INN (Name, description & structure)

Protection Letters – Statistics and Publication



Allies! Aligned on the same objective

Safe, distinct, memorable identifiers For both the scientific & the legal concept

Harmonized, balanced review procedures

Concluding







Oracle of Delphi – aka 'Q&A session'





WHO

20, Avenue Appia 1211 Geneva

Switzerland