

Terapias biológicas en EAS

Nuevas
moléculas

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CELLEX-IDIBAPS,
Servicio EAS, ICMiD, UB
Hospital Clínic, Barcelona

Terapias biológicas en EAS

Nuevas moléculas

Introducción
Metodología
Resultados
Top 5 Mec
Tendencias

Terapias biológicas en EAS

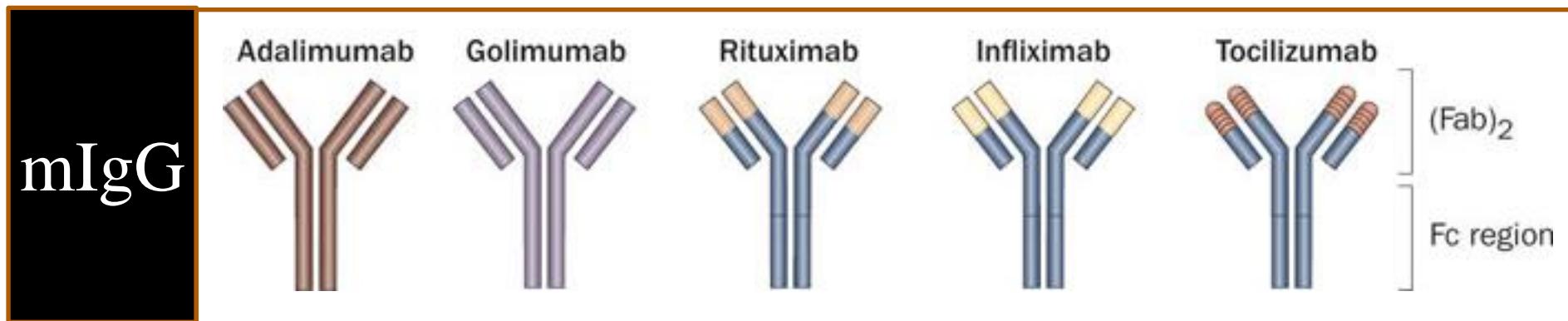
Nuevas moléculas

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Top 5 mecs
Tendencias

¿Cuál es su composición?

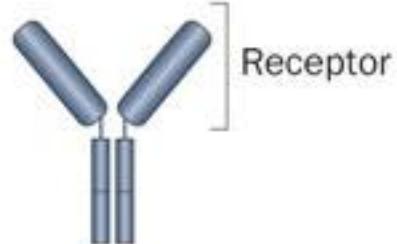
Tipo de molécula	Anticuerpos monoclonales			Fragmentos pegilados	Proteínas de fusión	Análogos de citoquinas
	Químéricos	Humanizados	Humanos			
	Infliximab		Adalimumab Golimumab	Certolizumab	Etanercept	
	Rituximab	Ocrelizumab	Ofatumumab			
		Epratuzumab				
					Abatacept Belatacept	
			Canakinumab		Rilonacept	
						Anakinra
		Daclizumab				
		Tocilizumab				
		(Efalizumab)				
			Belimumab			

¿Cuál es su composición?

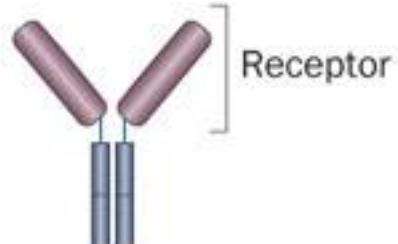


Híbridos (proteínas fusión)

Abatacept

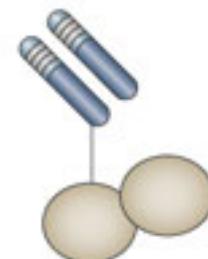


Etanercept



Pegolización

Certolizumab pegol



Análogos

Anakinra



¿Cuál es su diana terapéutica?

Dianas terapéuticas	Anticuerpos monoclonales			Fragmentos pegilados	Proteínas de fusión	Análogos de citoquinas
	Químéricos	Humanizados	Humanos			
TNFα	Infliximab		Adalimumab Golimumab	Certolizumab	Etanercept	
CD20	Rituximab	Ocrelizumab	Ofatumumab			
CD22		Epratuzumab				
CD80/86					Abatacept Belatacept	
IL-1			Canakinumab		Rilonacept	
Receptor IL-1						Anakinra
Receptor IL-2		Daclizumab				
Receptor IL-6		Tocilizumab				
LFA-1		(Efalizumab)				
BLyS (BAFF)			Belimumab			

Células
procesadoras/
presentadoras



Células estructura

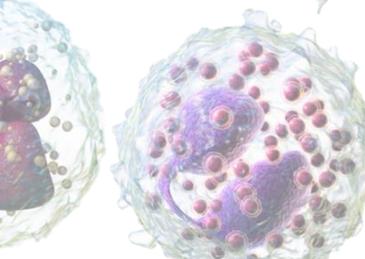
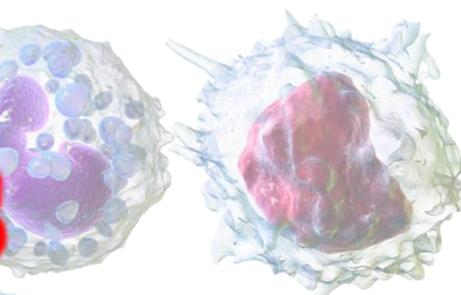
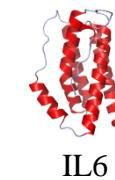
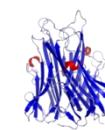
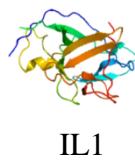
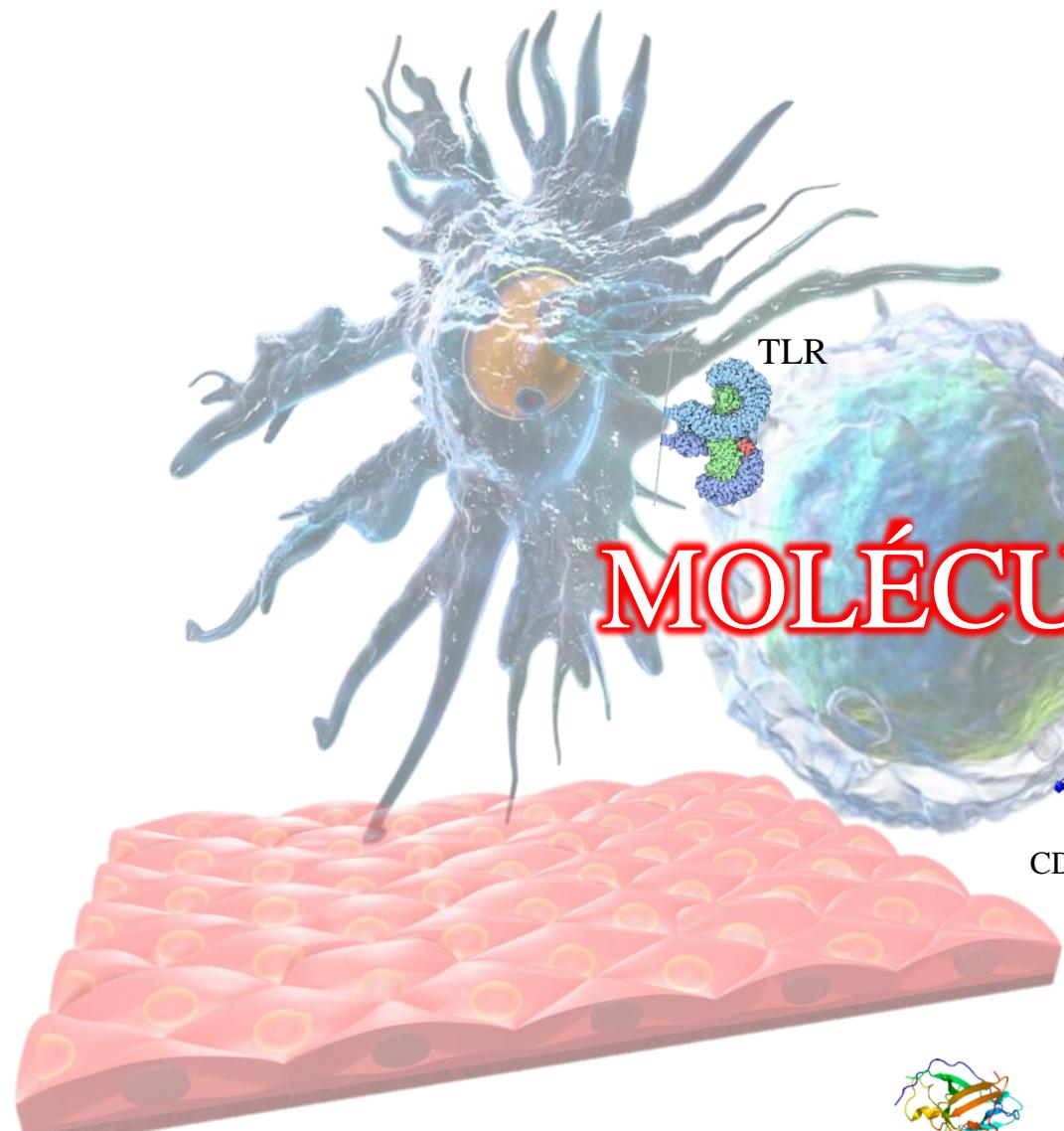
SISTEMA INMUNE

Células hematopoiéticas



SISTEMA INMUNE

MOLÉCULAS

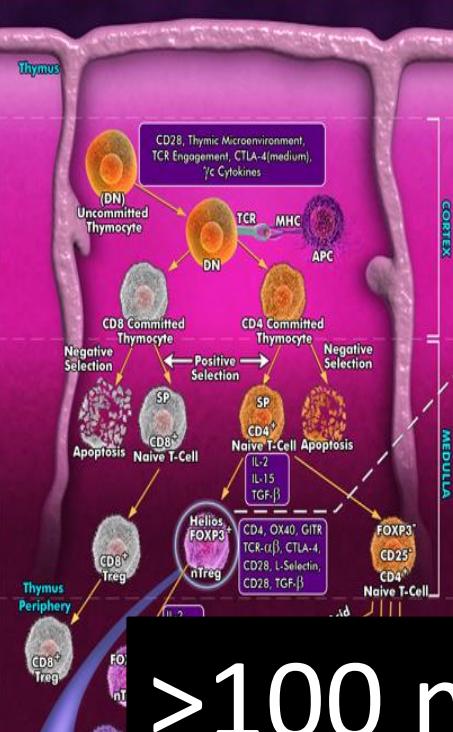


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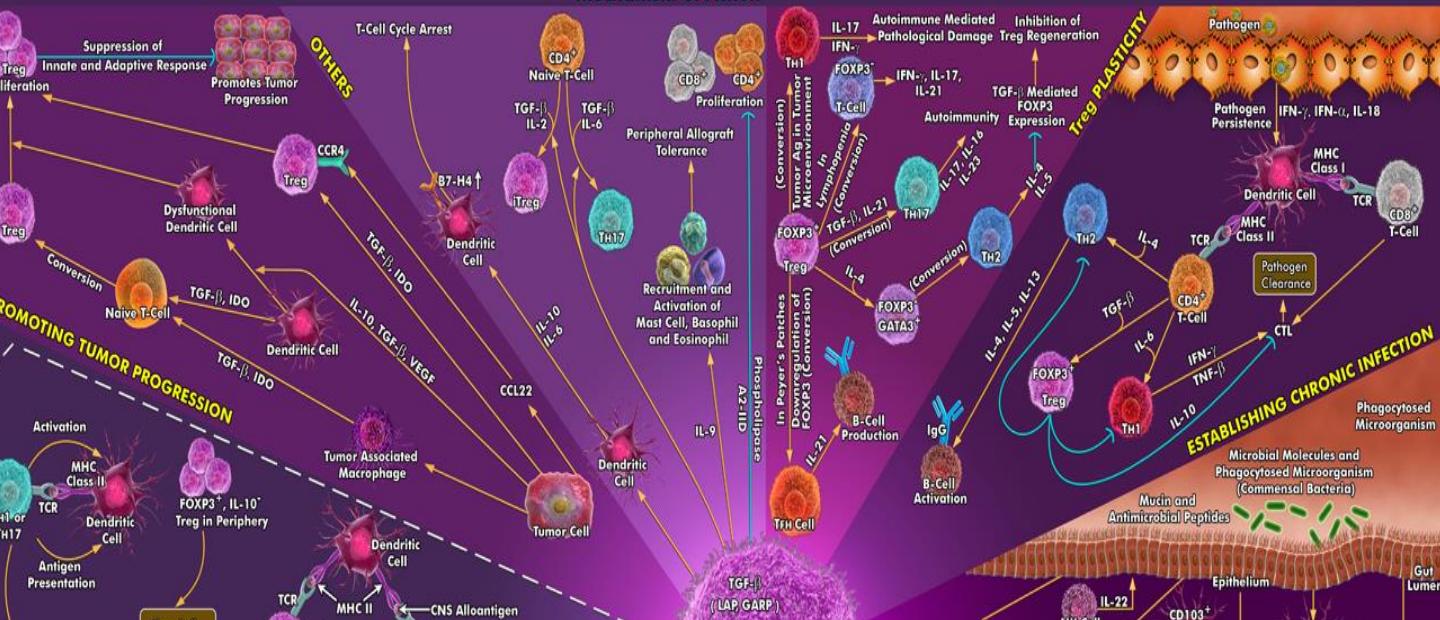
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Regulatory T-Cell Development

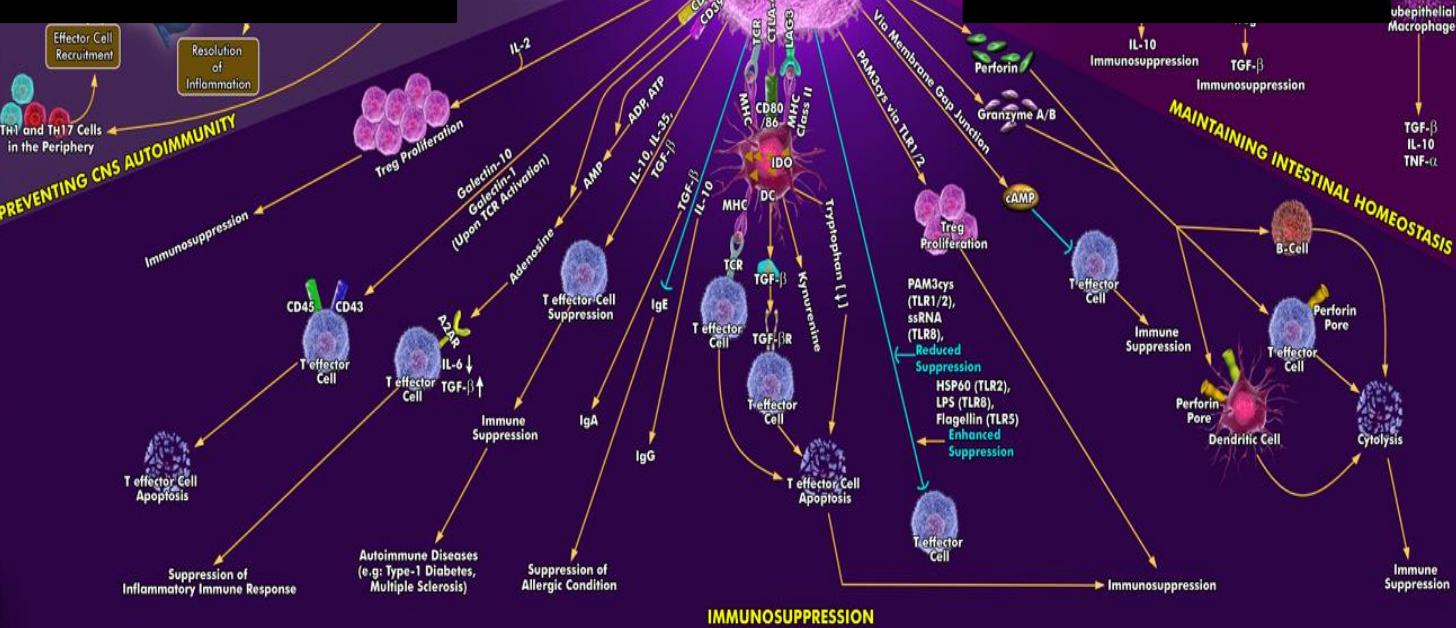
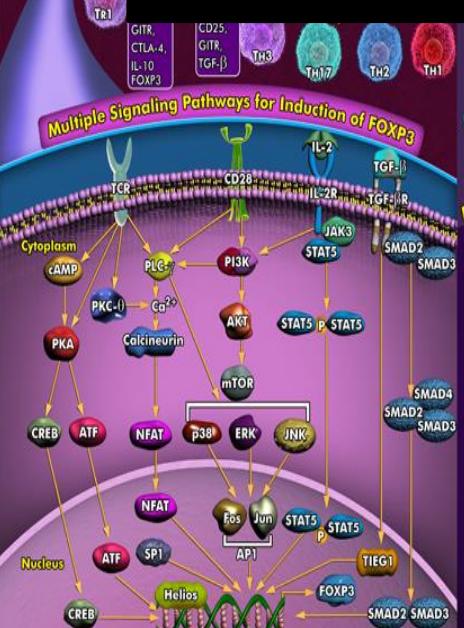


Mechanism of Action



>100 moléculas

>30 EAS

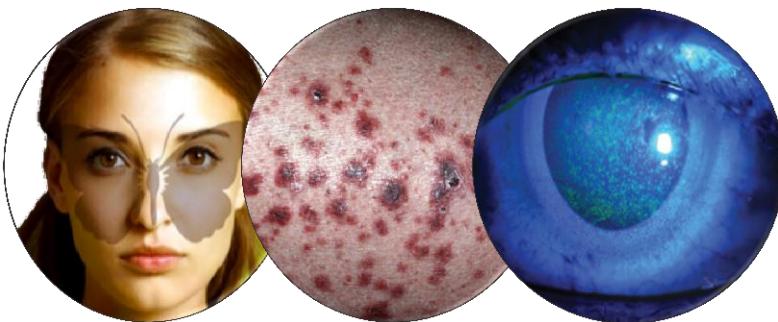




Focus on the
TOPIC



EAS



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By Topic

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Rank	Status	Study
------	--------	-------

1	Recruiting	Targeted Therapy Using Intradermal Injection of Etanercept for Remission Induction in Discoid Lupus Erythematosus
---	------------	---

Conditions: Lupus Erythematosus, Discoid; Lupus Erythematosus, Cutaneous;
Lupus Erythematosus, Chronic Cutaneous

Intervention: Drug: Etanercept

2	Not yet recruiting	The Effect of Metformin on Reducing Lupus Flares
---	--------------------	--

Condition: Systemic Lupus Erythematosus

Interventions: Drug: metformin; Drug: placebo

3	Recruiting	Prospective Evaluation of Decision and Compliance With Antimalarials in Patients With Systemic Lupus
---	------------	--

Condition: Systemic Lupus Erythematosus

Intervention: Other: therapeutic education

4	Recruiting	Comparison Between Tacrolimus (TAC) and Mycophenolate Mofetil (MMF) for Induction of Remission in Lupus Nephritis
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Condition: Lupus Nephritis

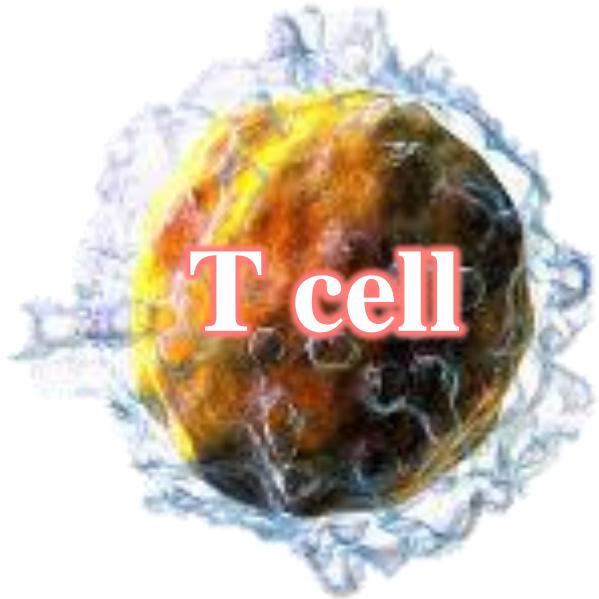
Intervention: Drug: Tacrolimus vs. Mycophenolate mofetil for Induction Therapy in Lupus Nephritis



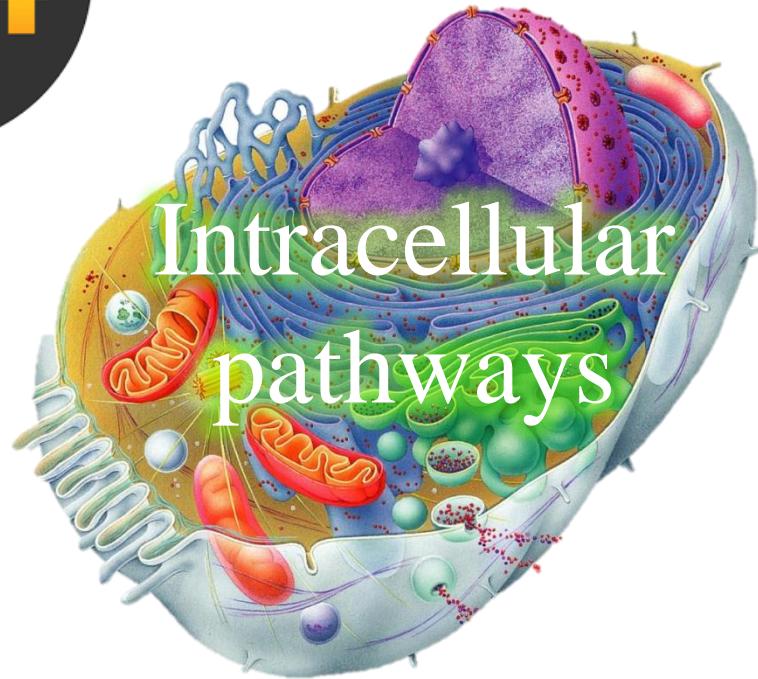
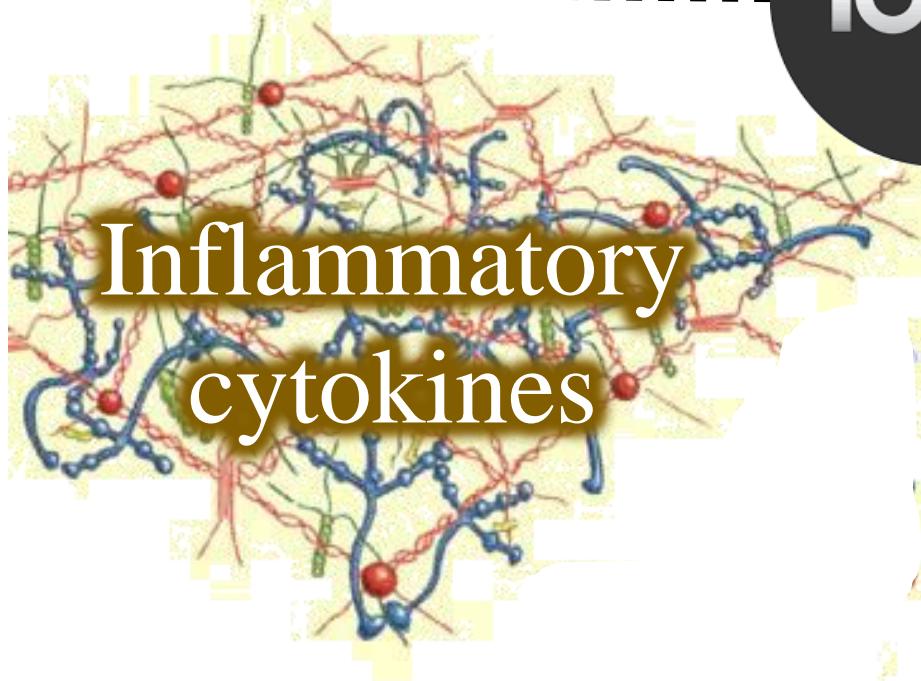
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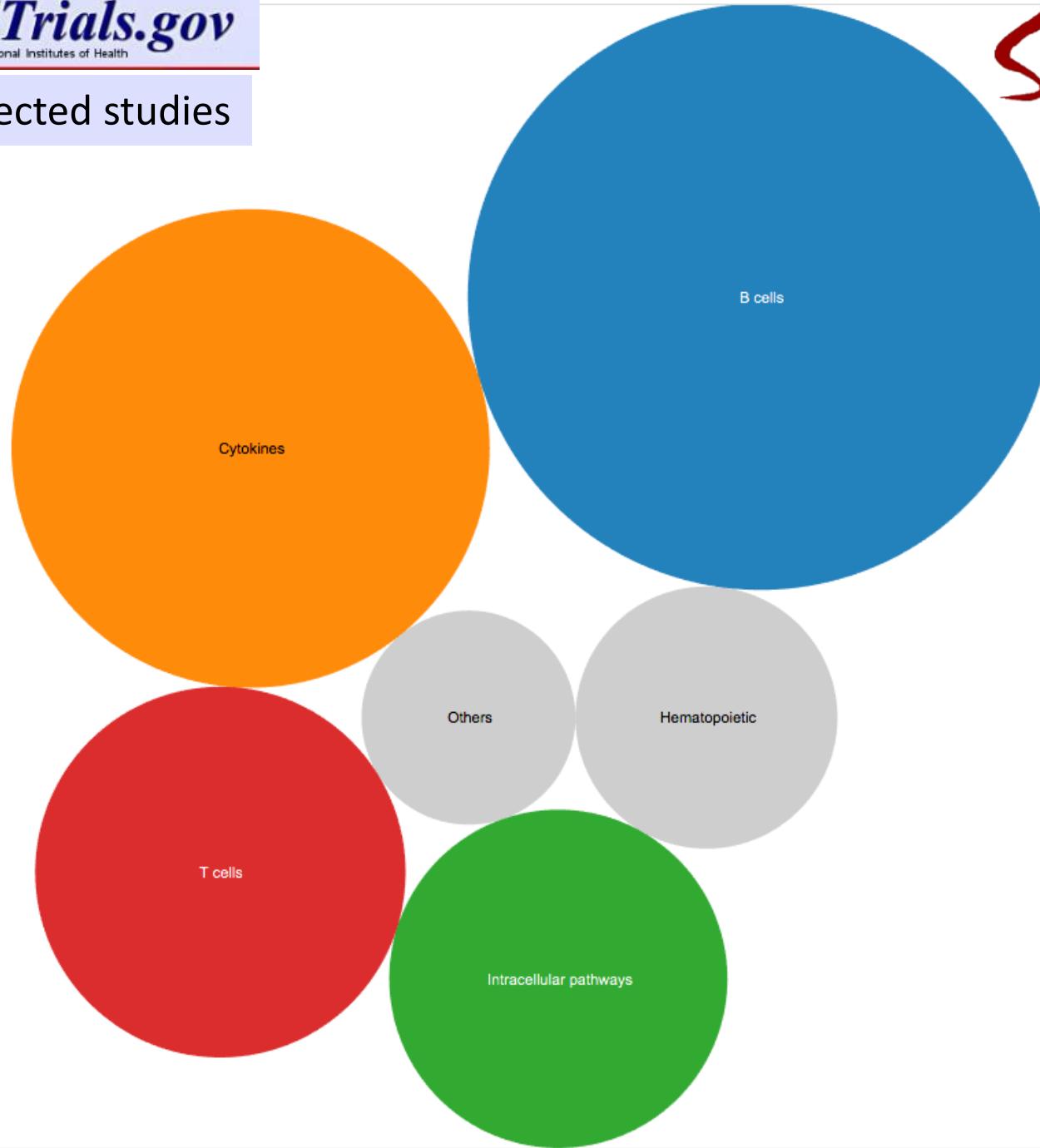


Top4



Scenario

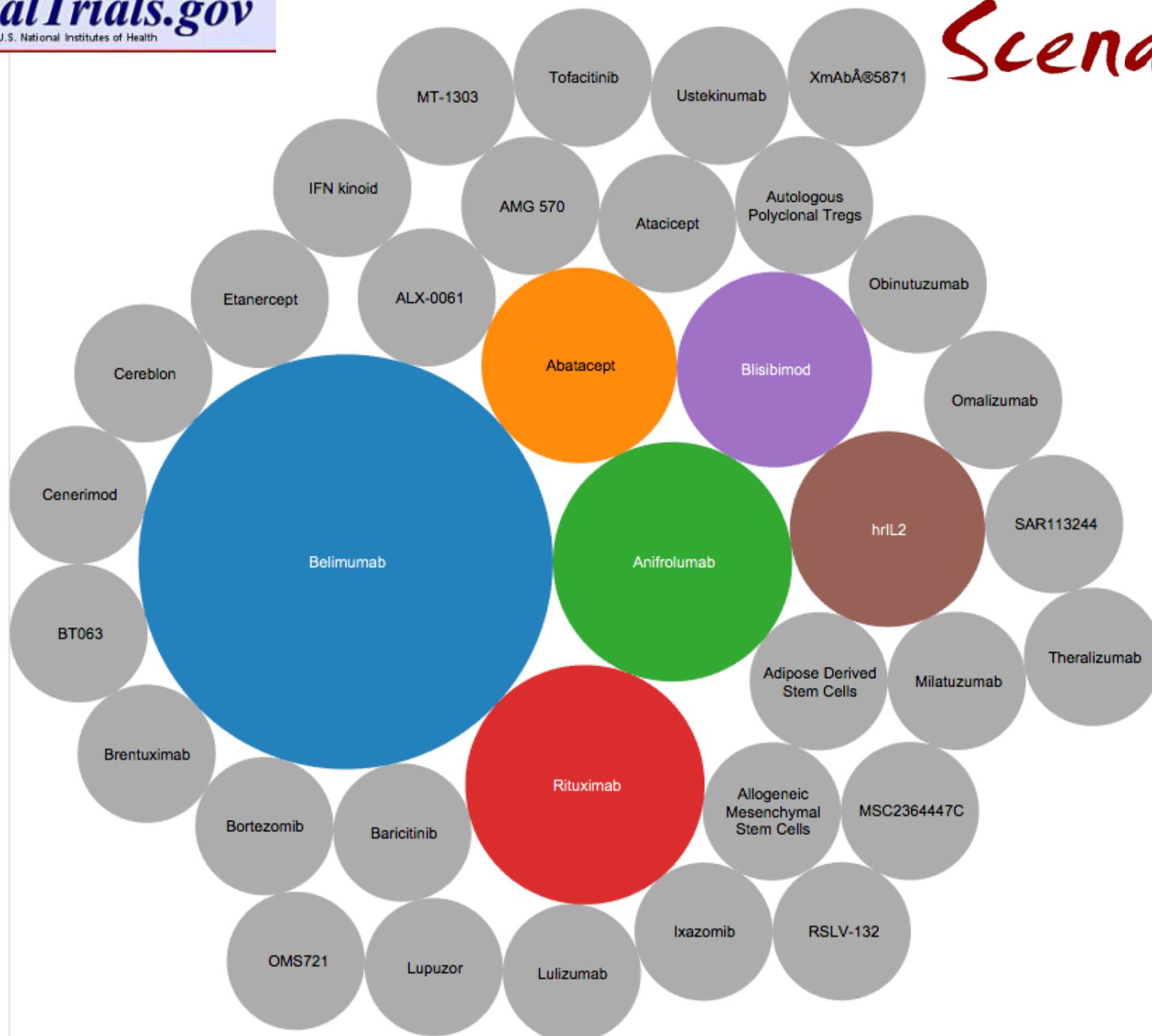
N = 82 selected studies



Terapias biológicas en EAS

Nuevas
moléculas

Lupus
Eritematoso
Sistémico



Milatuzumab Brentuximab

SAR
113244

CD74

CD30

XmAb5871

CD19

CD185

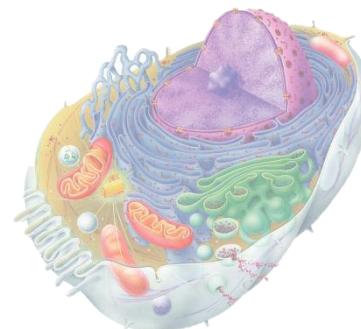
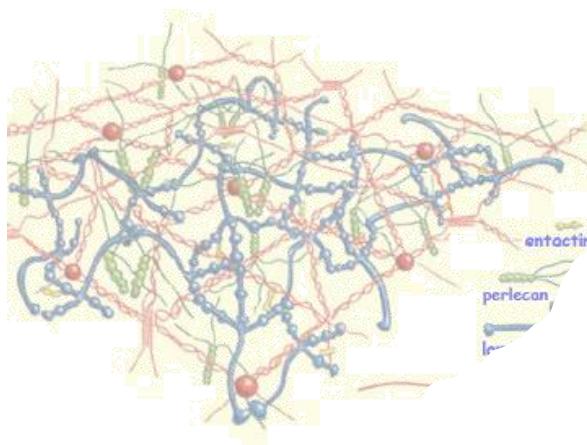
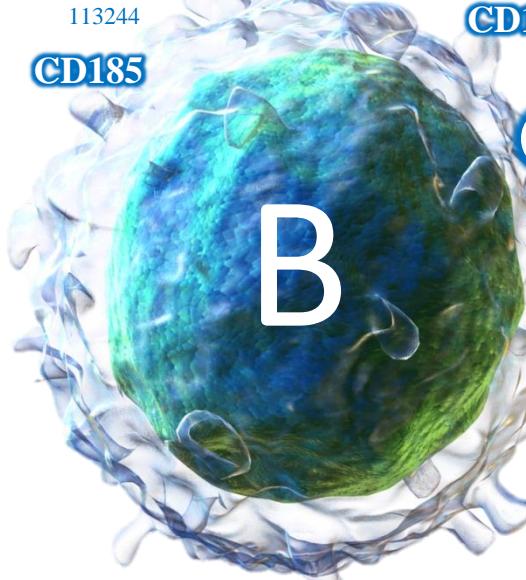
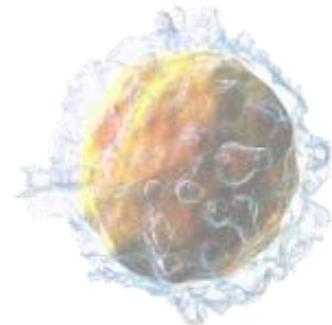
CD20

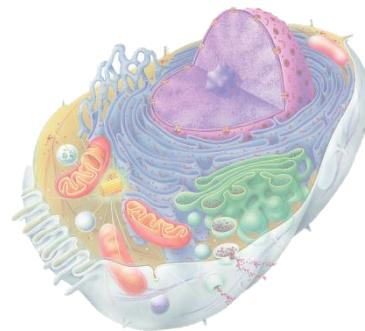
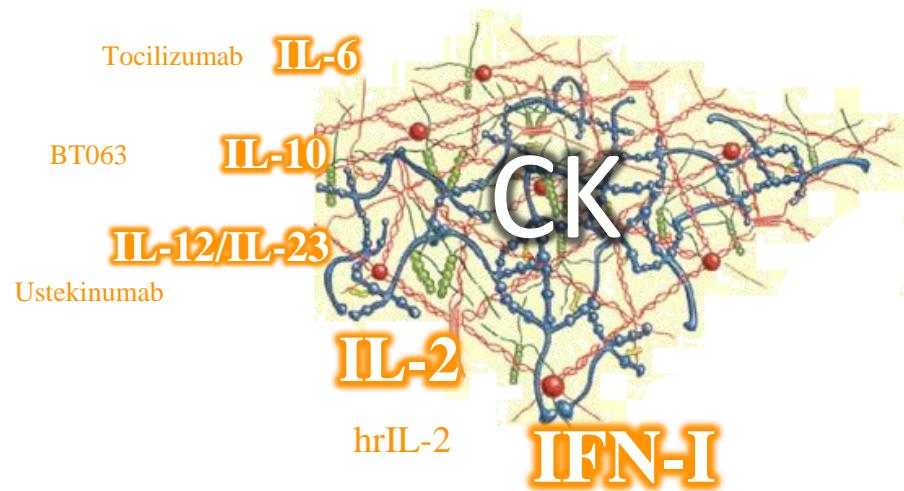
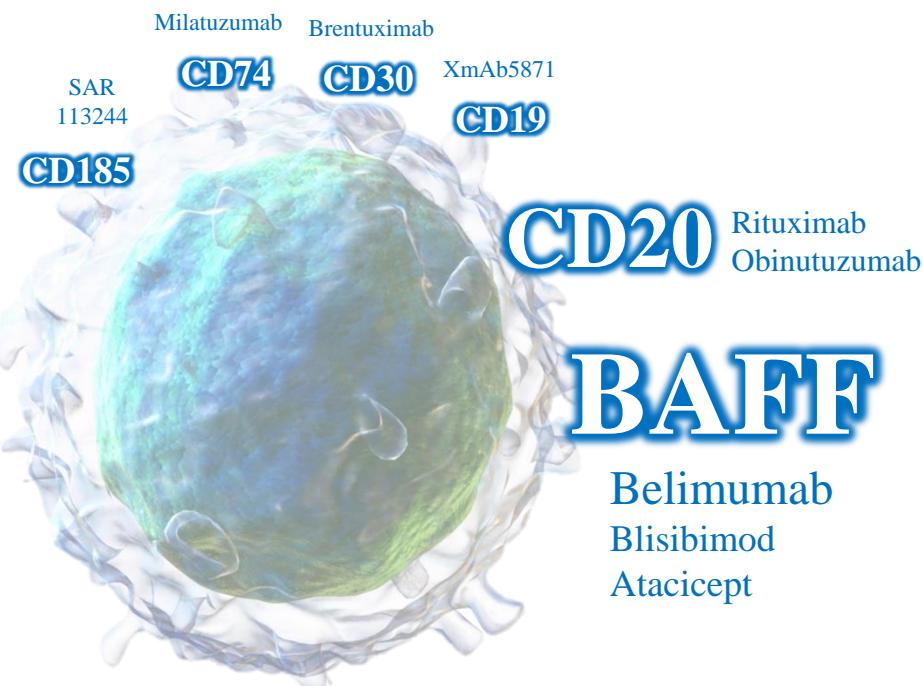
Rituximab
Obinutuzumab

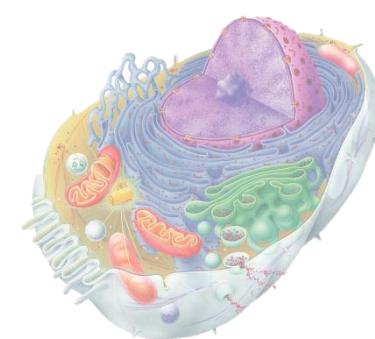
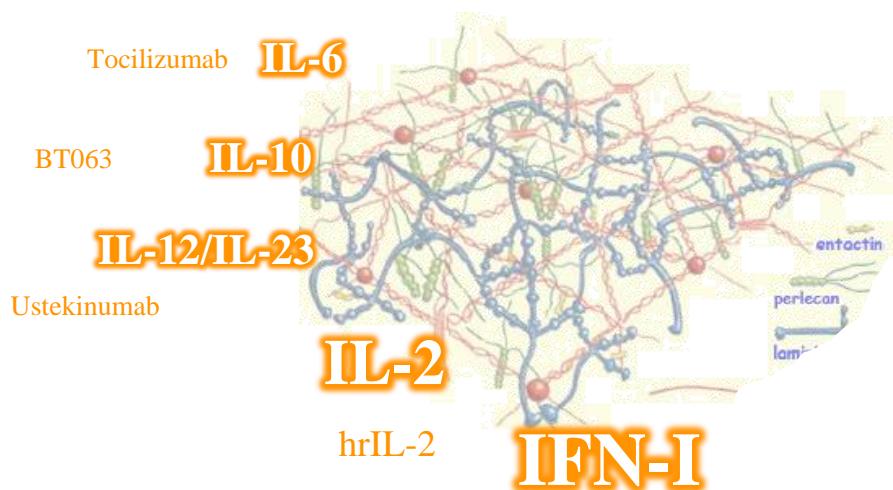
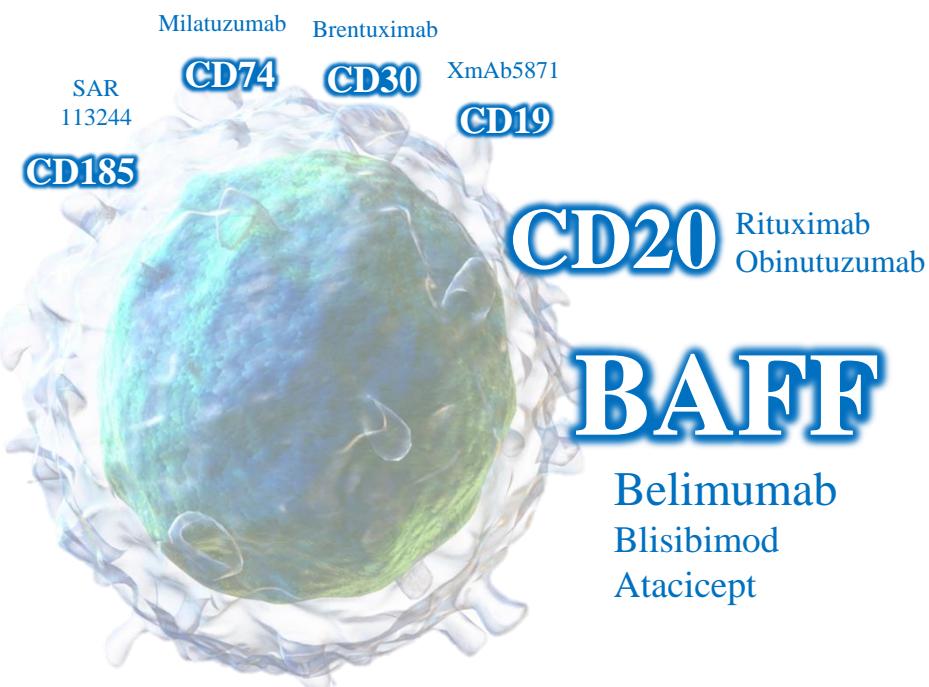
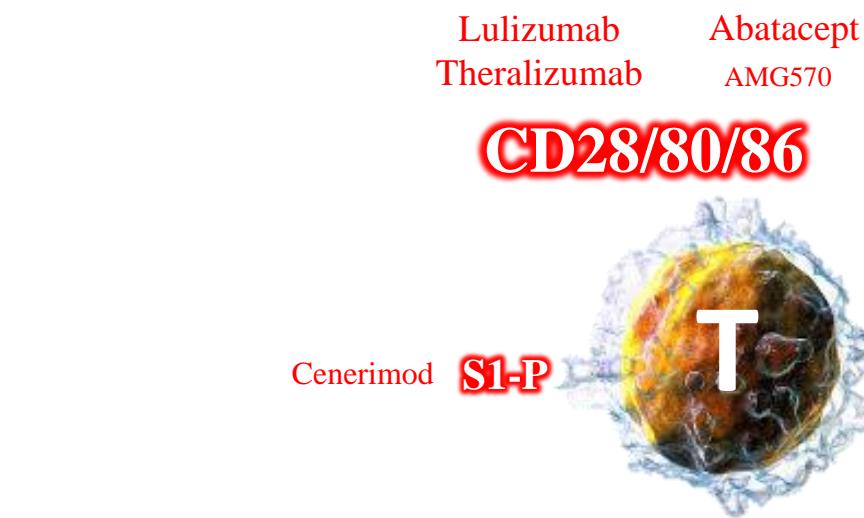
B

BAFF

Belimumab
Blisibimod
Atacicept







Lulizumab Abatacept
Theralizumab AMG570

CD28/80/86

Cenerimod S1-P



Milatuzumab Brentuximab

SAR
113244

CD74

CD30

XmAb5871

CD19

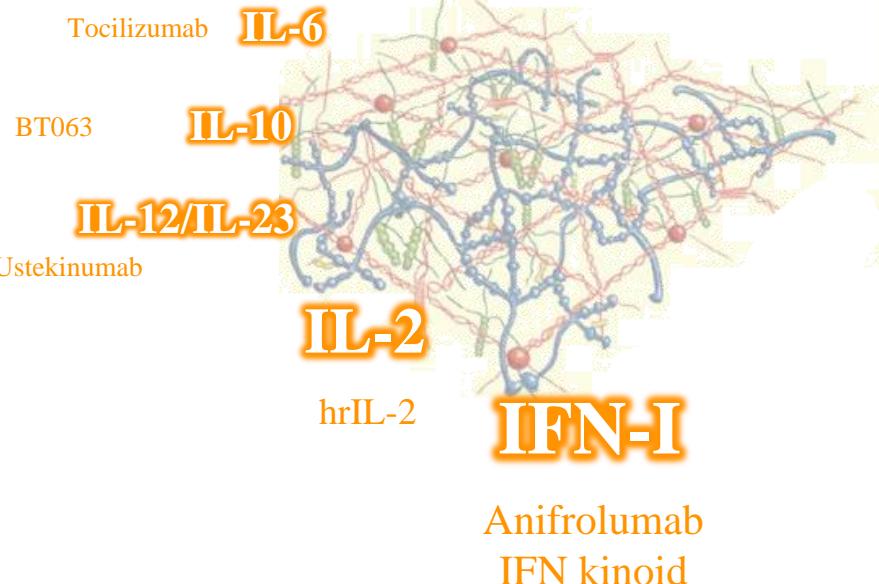
CD185

CD20

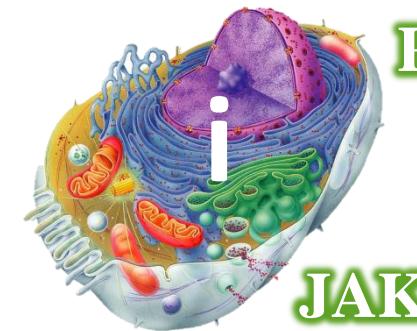
Rituximab
Obinutuzumab

BAFF

Belimumab
Blisibimod
Atacicept



RNase
RSLV-132



Proteasome

Bortezomib
Ixazomib
Cereblon

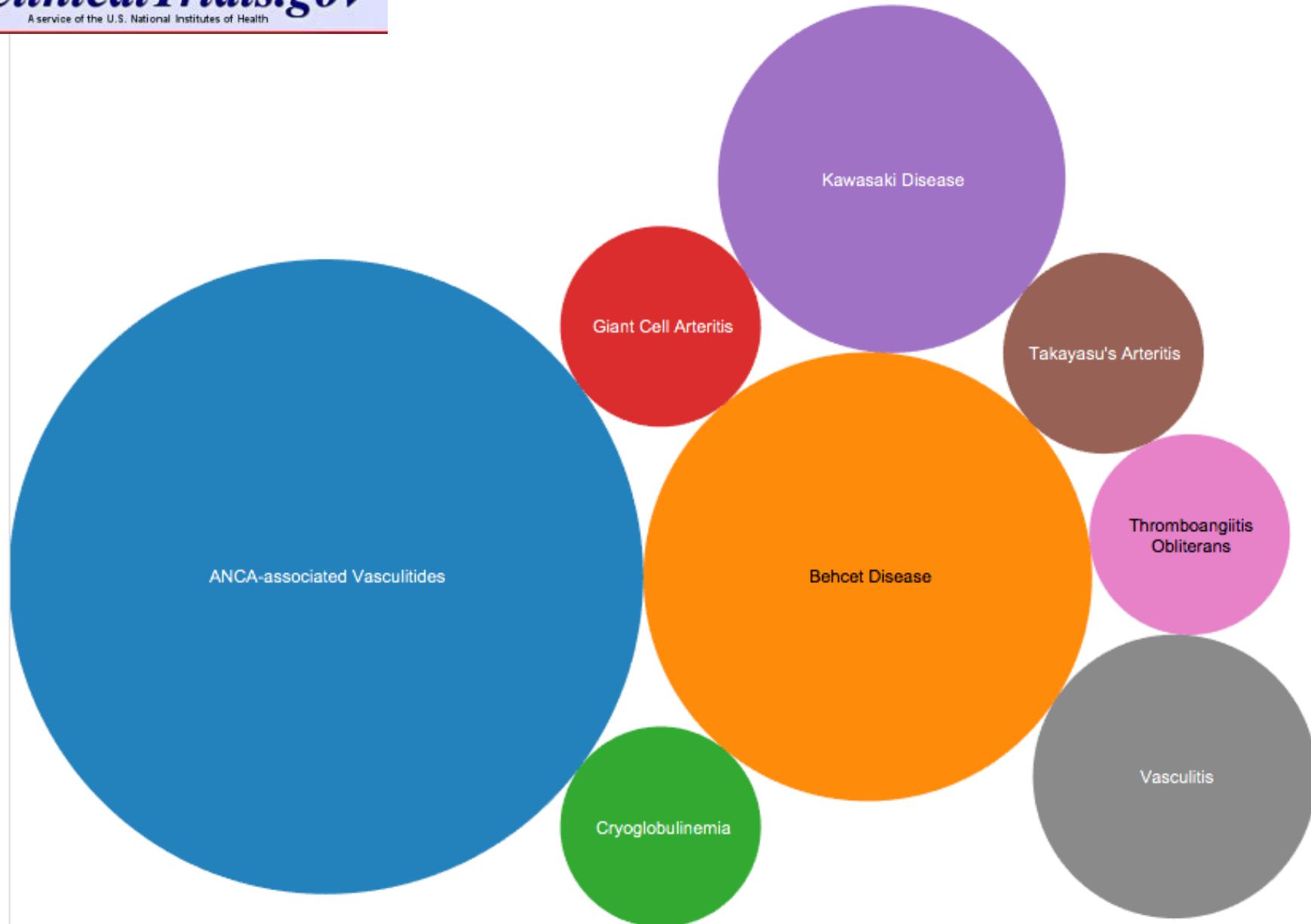
JAK

Baricitinib
Tofacitinib
MSC2364447C

Terapias biológicas en EAS

Nuevas
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Vasculitis
sistémicas



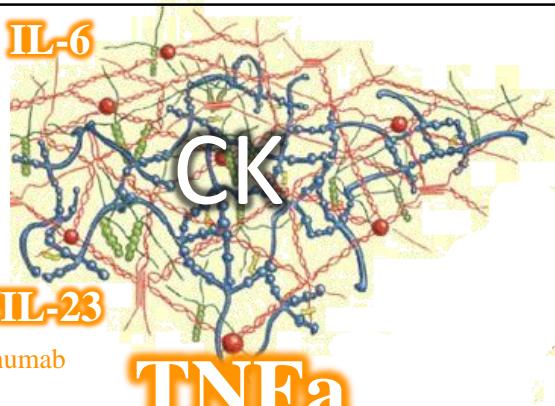
Sirukumab

IL-1

Anakinra

IL-12/IL-23

Ustekinumab



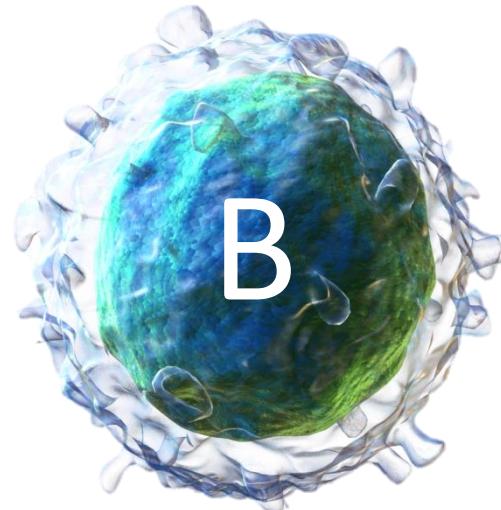
Infliximab
Etanercept
Adalimumab

CD80/CD86

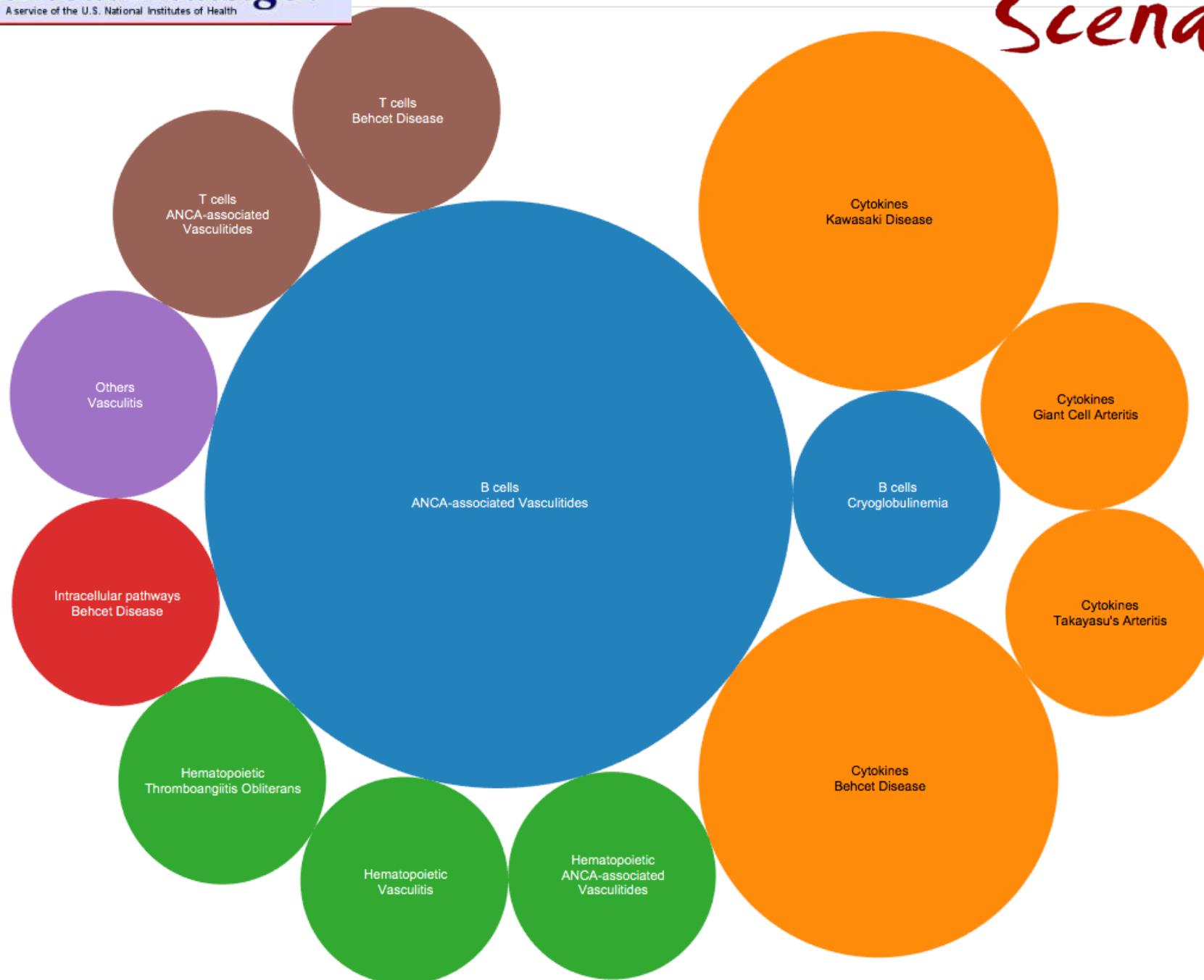
Abatacept

**B****CD20**

Rituximab

**PDE4**

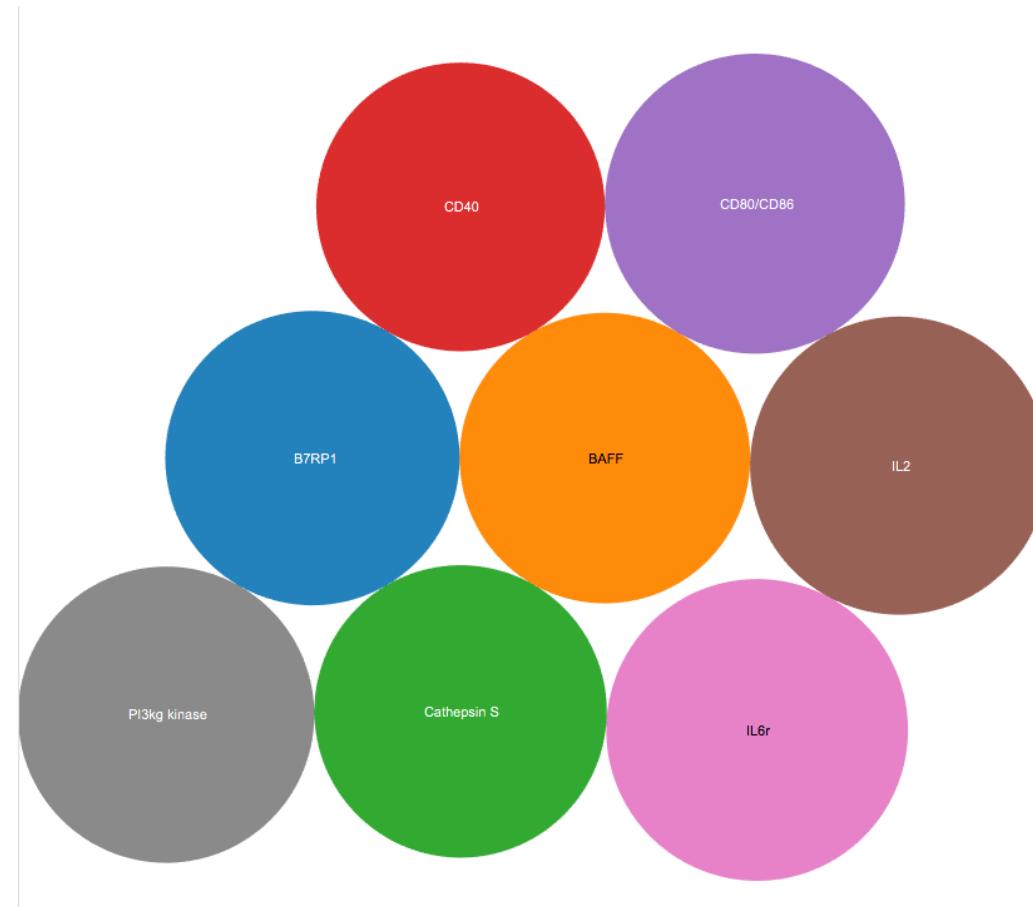
Apremilast



Terapias biológicas en EAS

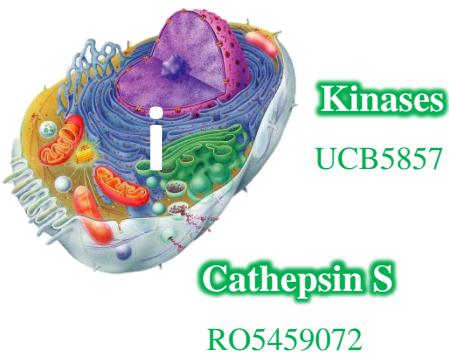
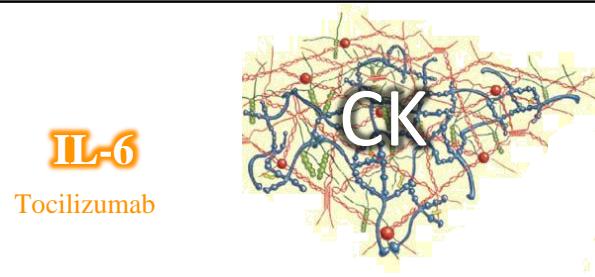
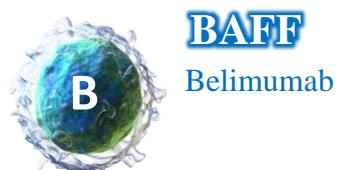
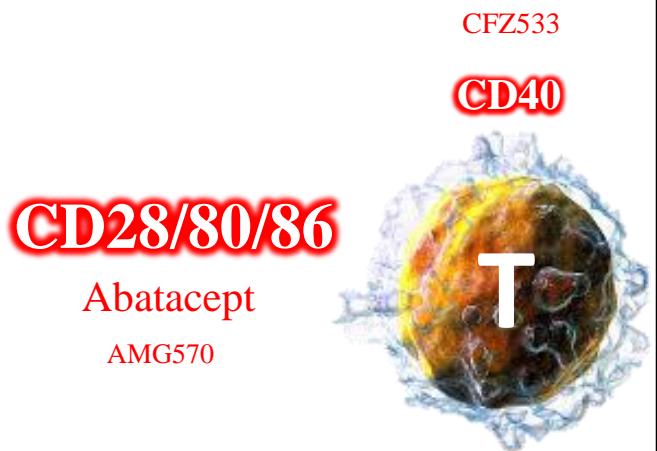
Nuevas
moléculas

Síndrome
de Sjögren



3

1



2

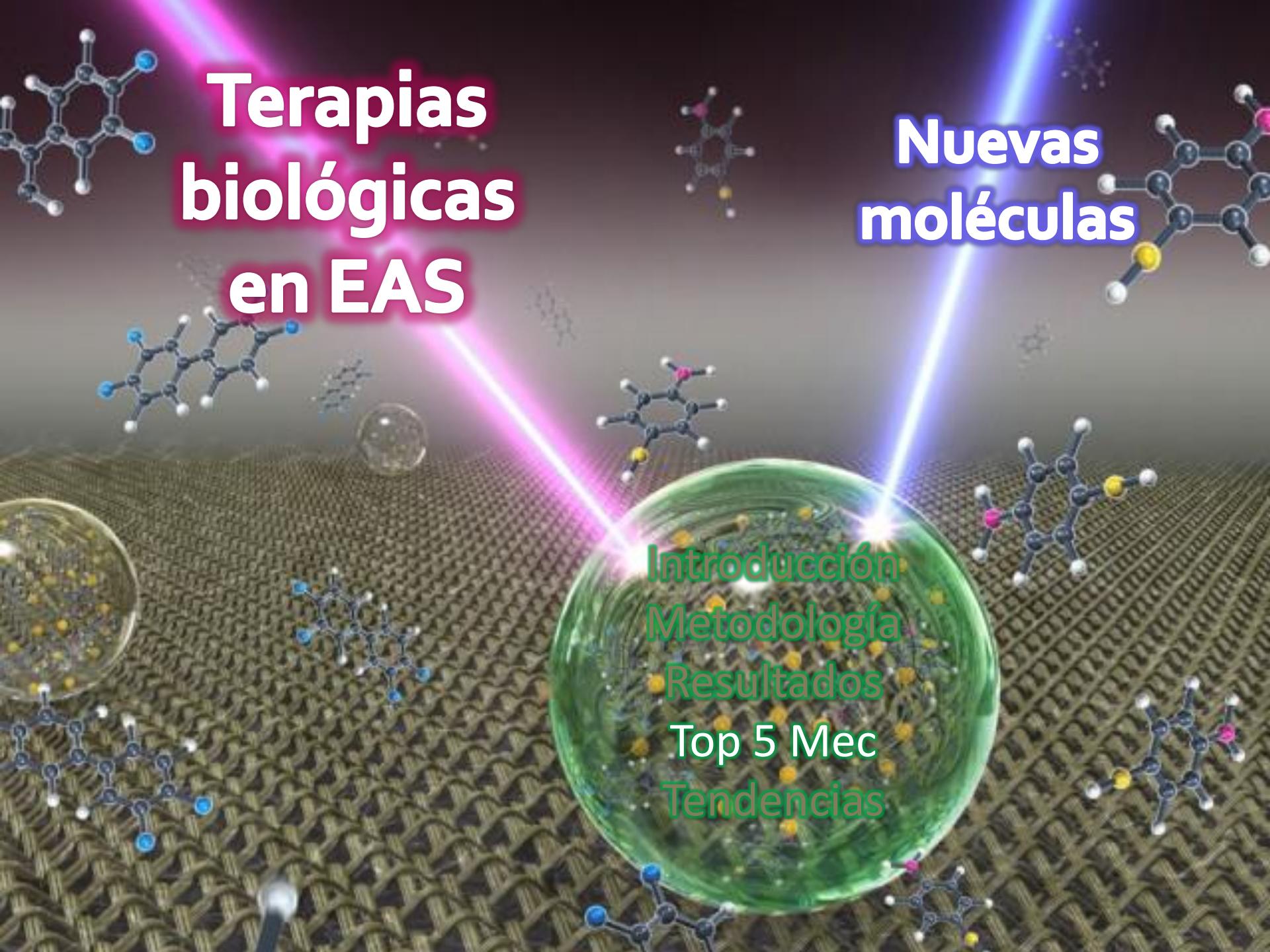
2

IL-2
hrIL-2

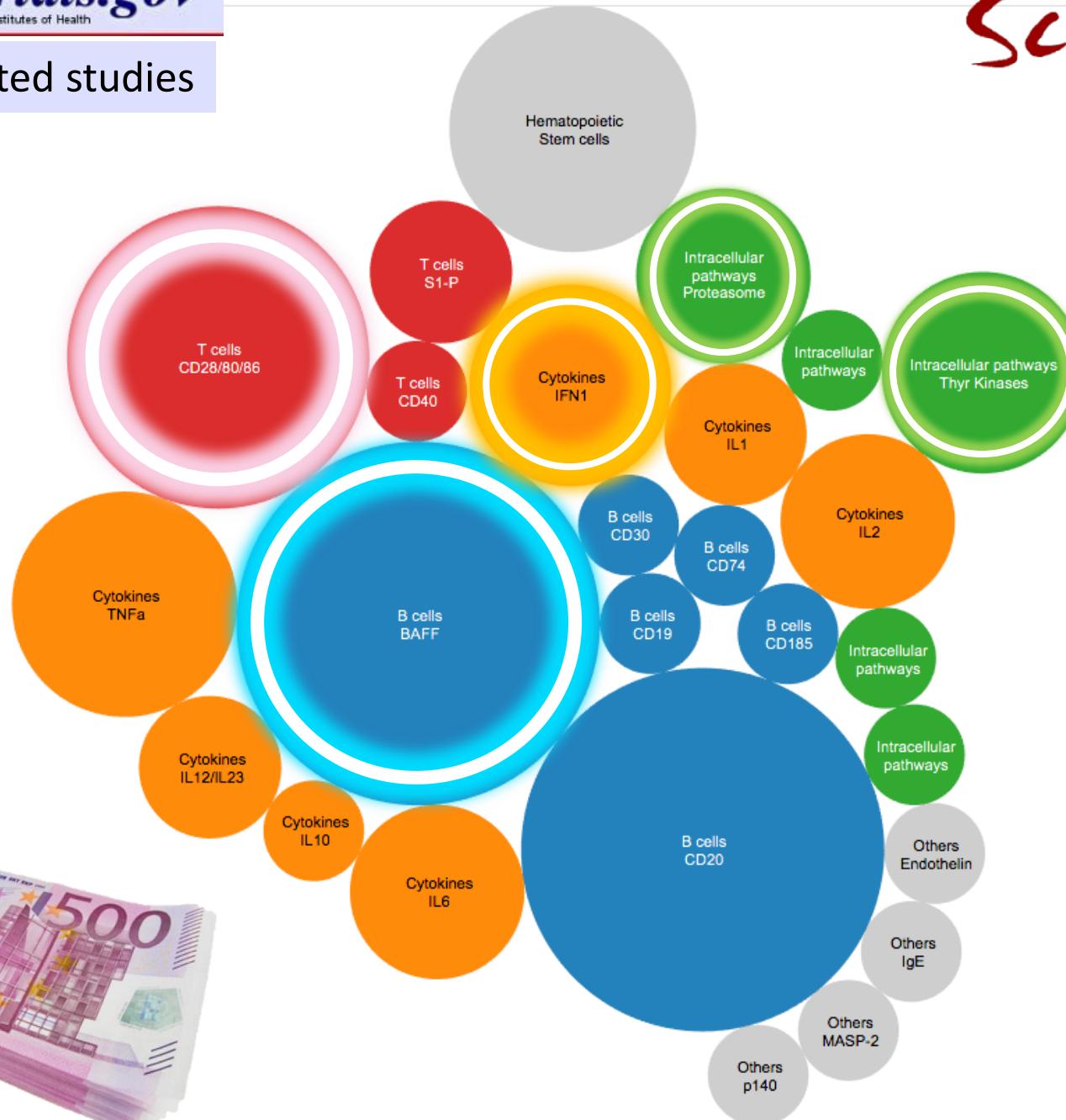
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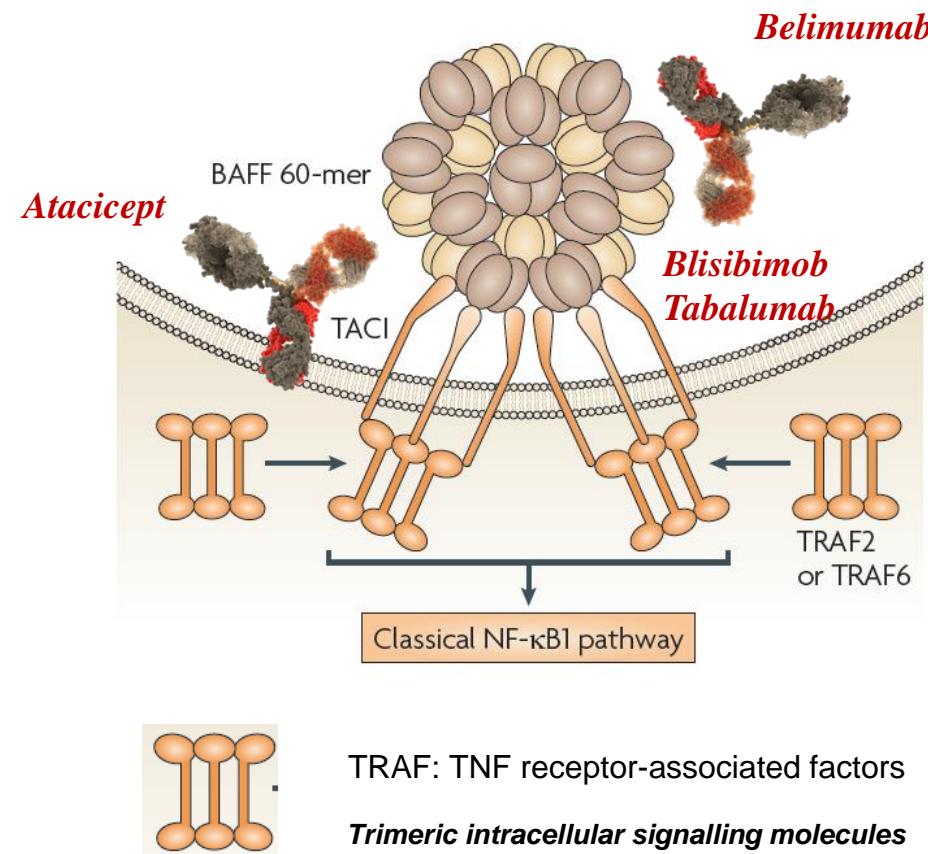
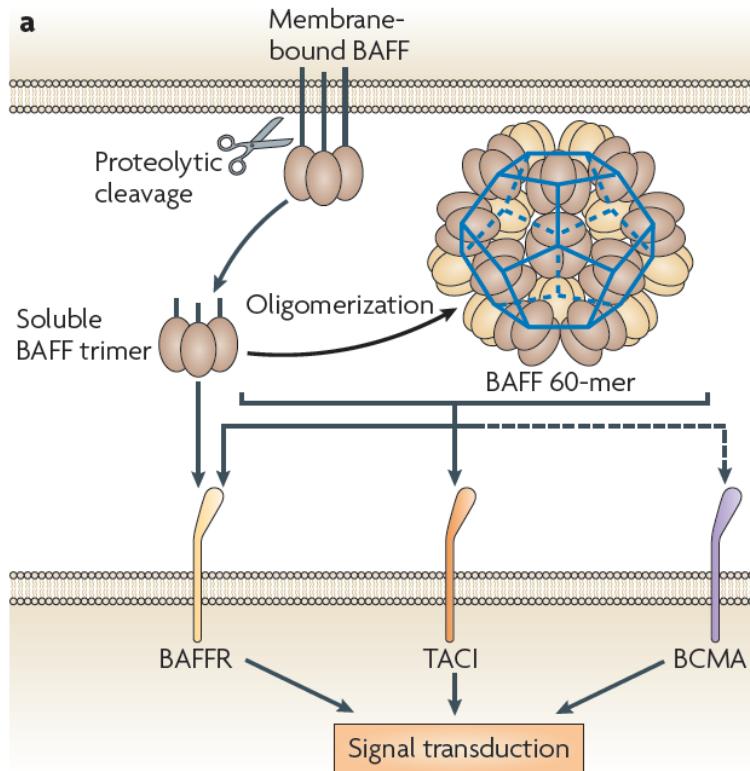
Cracking the BAFF code

Fabienne Mackay* and Pascal Schneider†

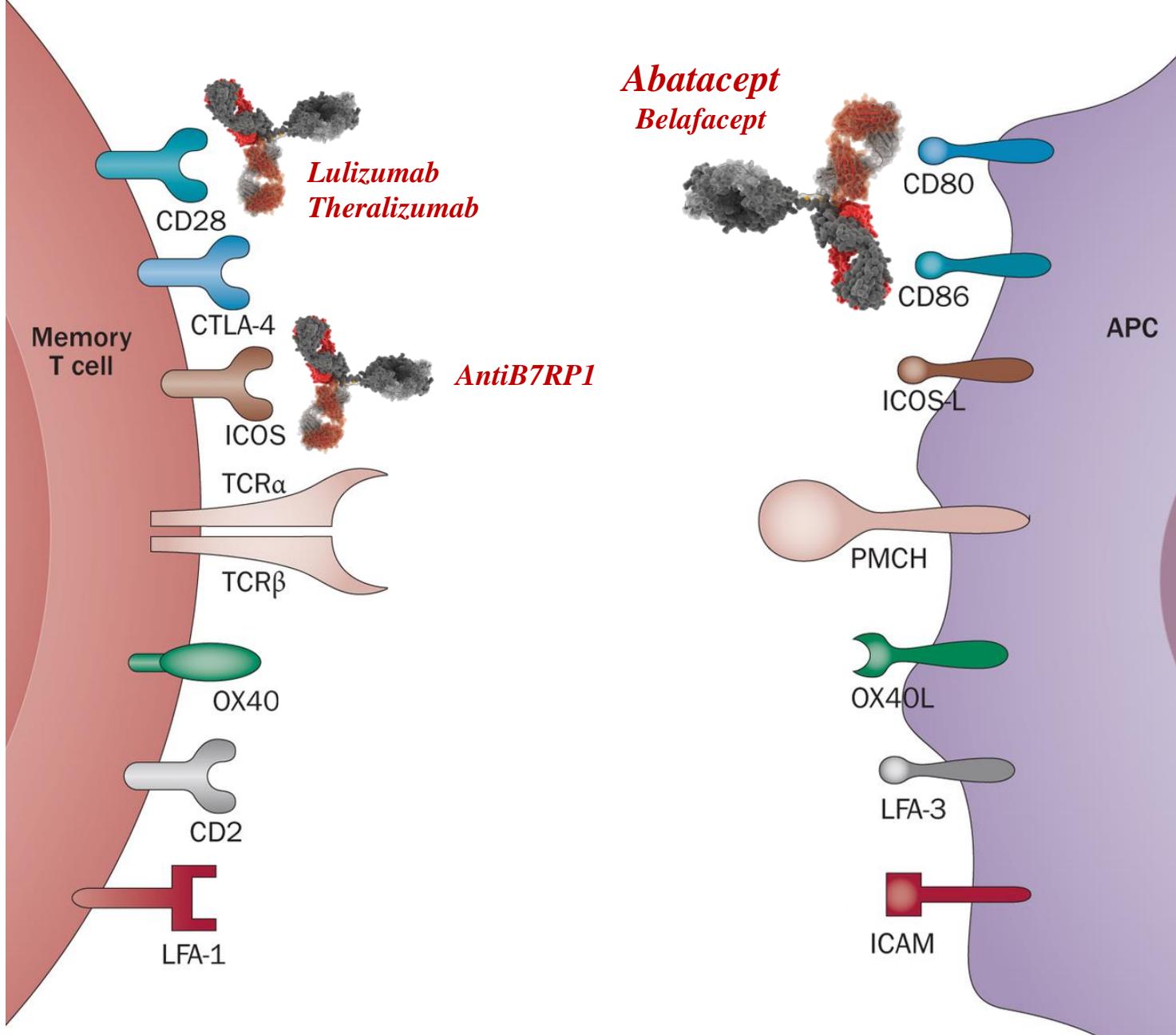
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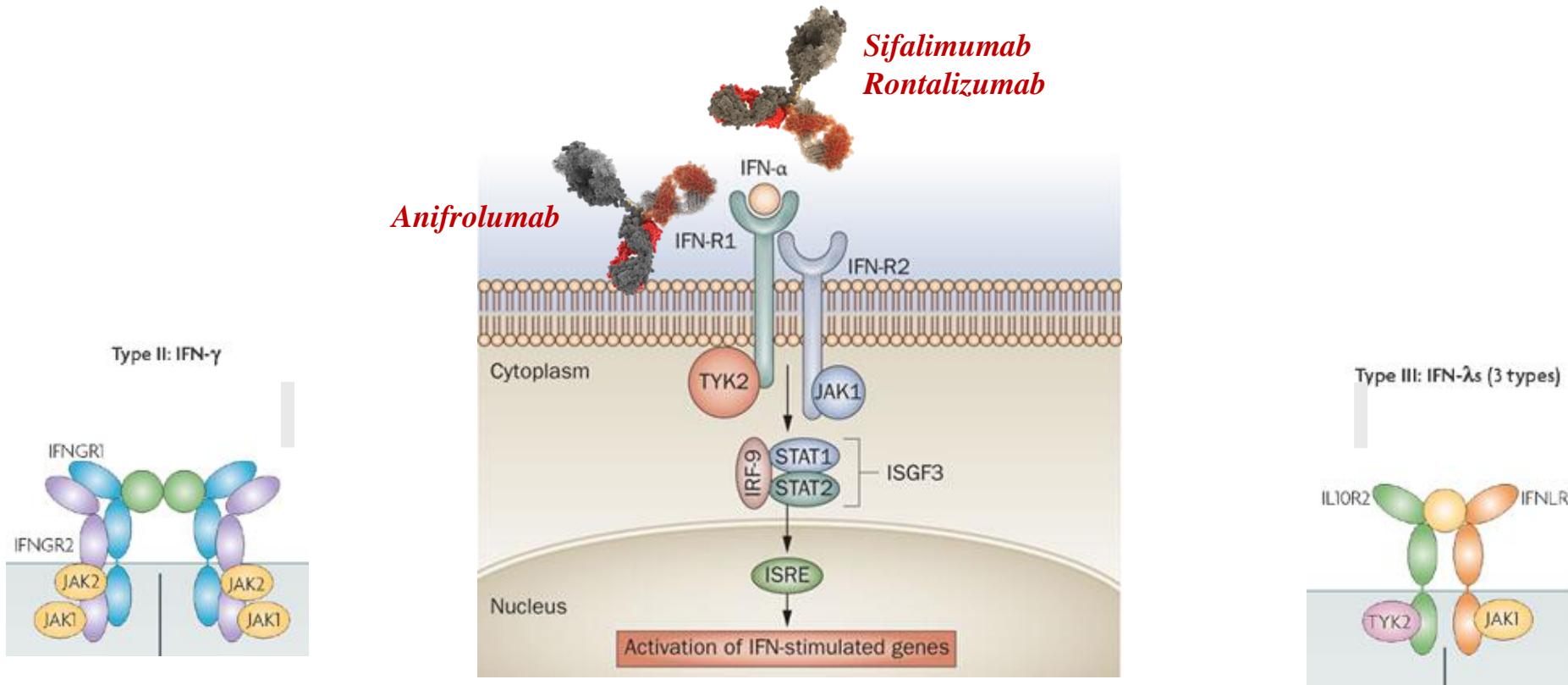
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BAFF (B lymphocyte activating factor of the tumour necrosis factor family) is a vital homeostatic cytokine for B cells that helps regulate both innate and adaptive immune responses.



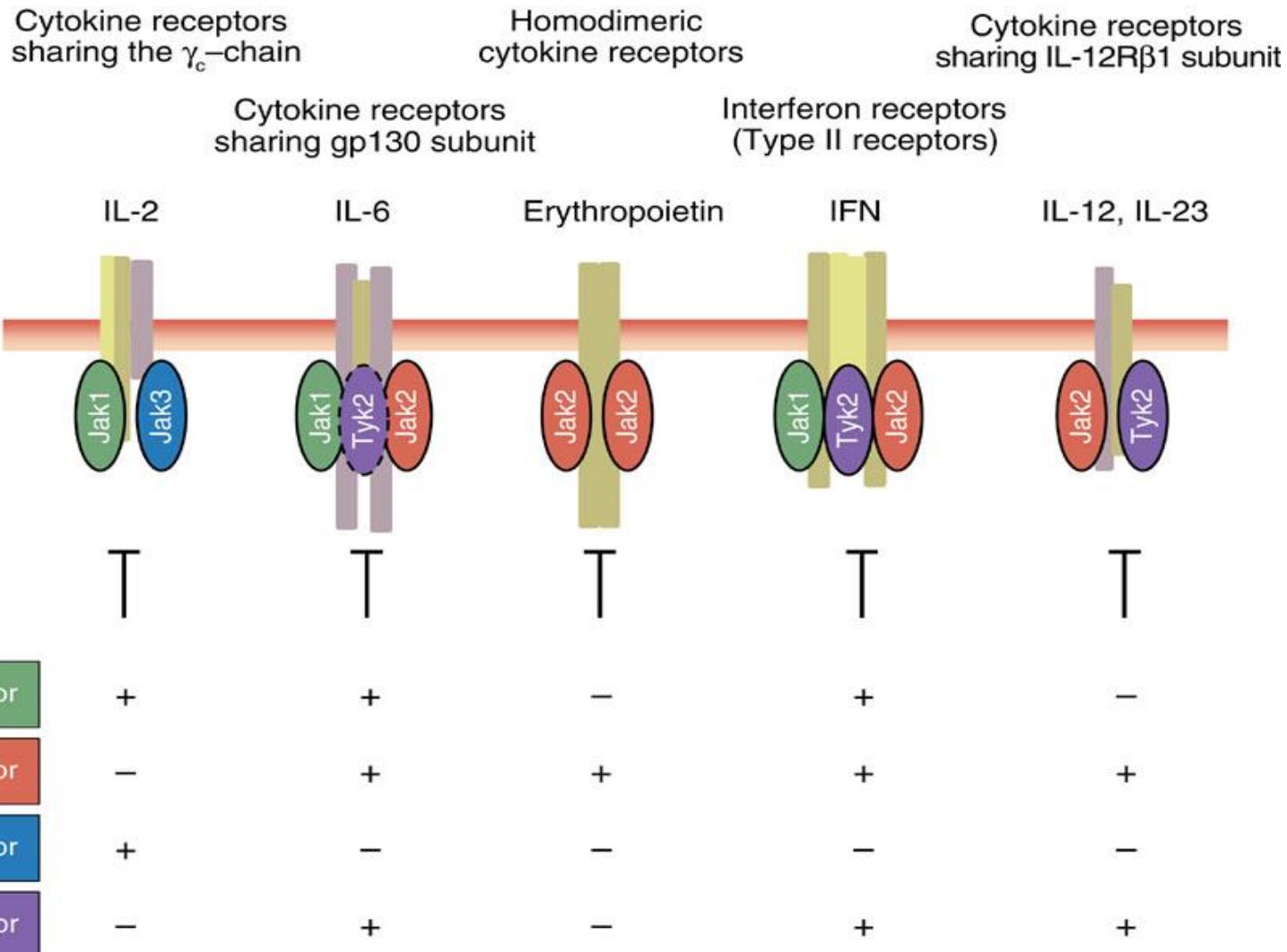
La coestimulación del linfo T





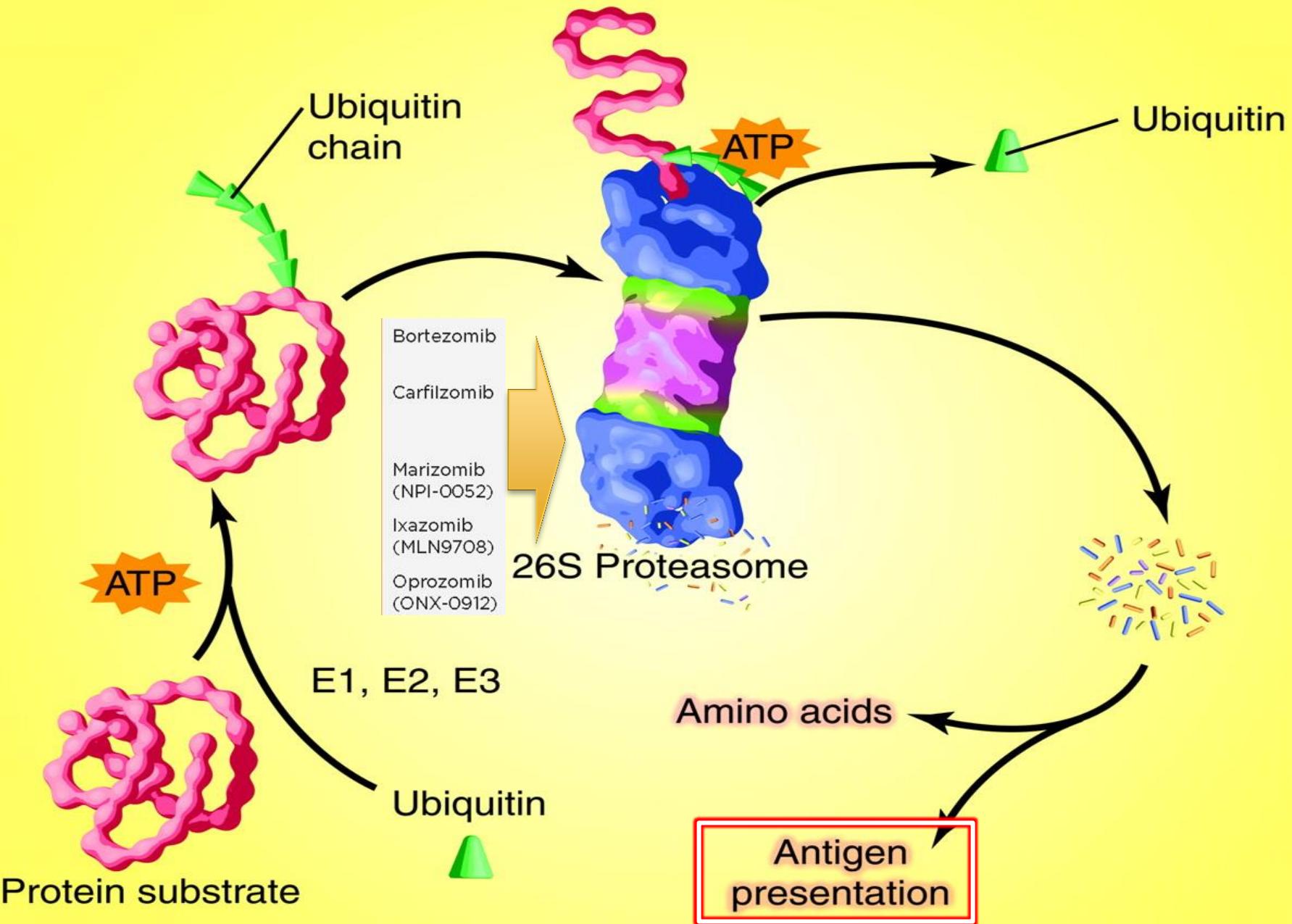
IFN type	Receptor type	Encoding gene	Structure	Interferons	Sources
I	IFN- α receptor that consists of IFNAR1 and IFNAR2 chains	Chromosome 9	α -spiral	IFN- α -2a and -2b IFN- β IFN- ω IFN- ϵ IFN- κ	Leukocytes, macrophages, endothelial cells, tumor cells, keratinocytes, and mesenchymal cells Fibroblasts, endothelial cells, macrophages, and epithelial cells T lymphocytes Cerebral tissues Not known yet
II	IFNGR that consists of IFNGR1 and IFNGR2 chains	Chromosome 12	Core of six α -helices and an extended unfolded sequence in the C-terminal region ^[1]	IFN- γ	T cells and NK cells
III	Receptor complex consisting of IL10R2 (also called CRF2-4) and IFNLR1 (also called CRF2-12)	Chromosome 19		IFN- λ	Dendritic cells and macrophages

Janus kinases: family of intracellular nonreceptor tyrosine kinases that transmit cytokine-mediated signals



TOP 5

Maquinaria intracelular: Proteasoma



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Trending Topic

Cuanto más cómodo, mejor





Trending Topic

Adiós a los glucocorticoides

India's No. 1* sweetener

1 sachet gives taste of 2 teaspoons of sugar

+ Serving Suggestion only

Cortis™
Free
~Gold~
Low Calorie Sugar Substitute

Table Top Sweetener

A woman in a yellow tank top and black headband is holding dumbbells.

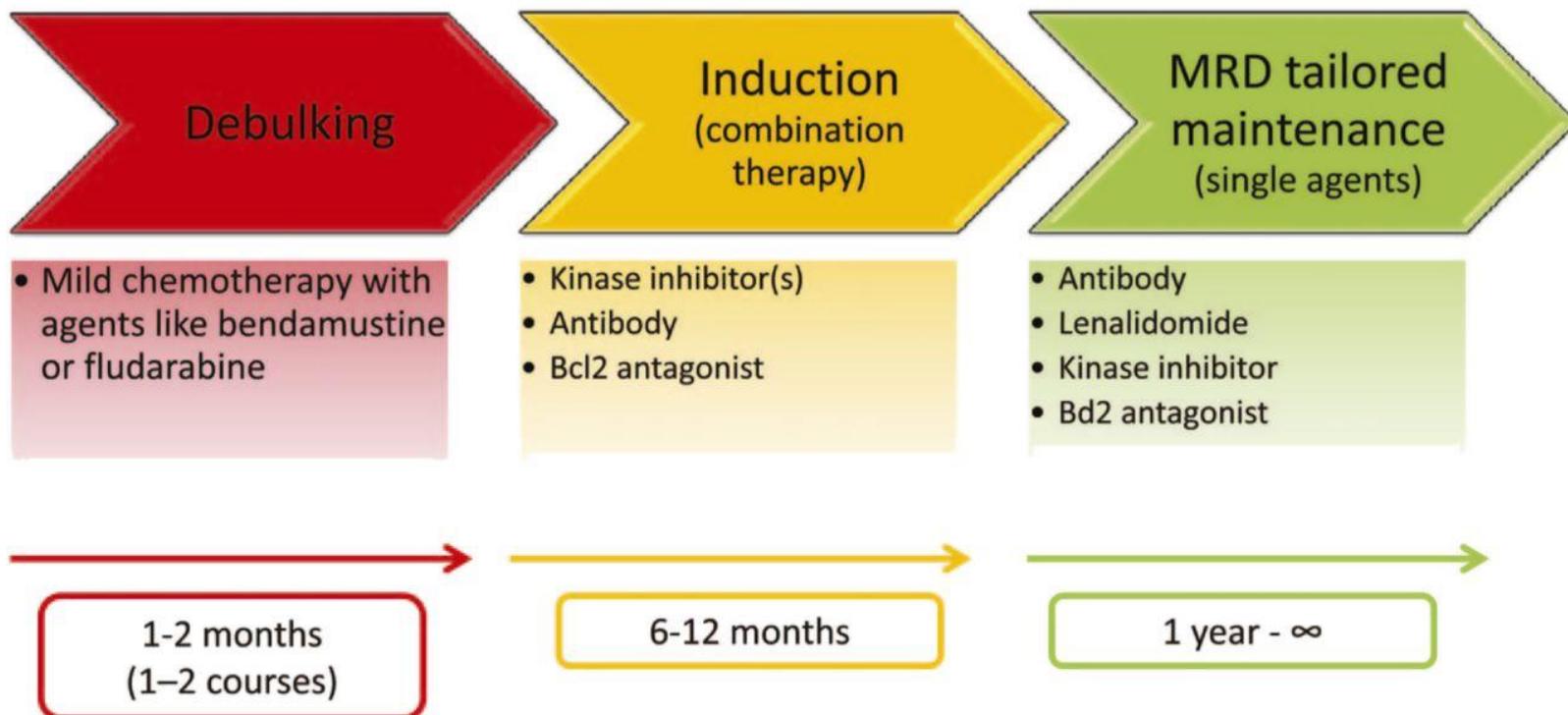
A bowl of cereal with fruit.

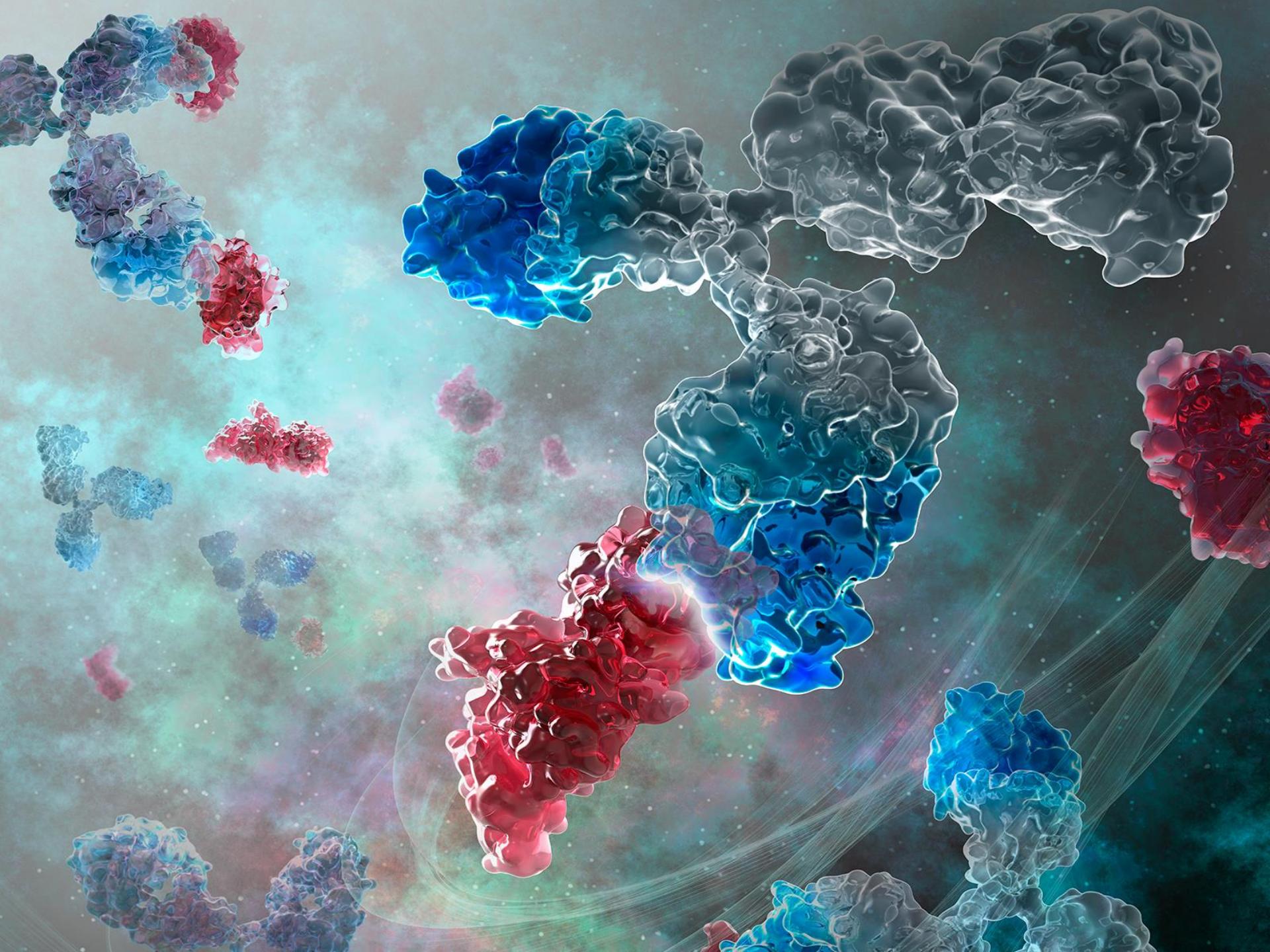


Trending Topic

Terapias biológicas secuenciales

Potential future strategies to achieve long-term control of CLL







SOCIETAT
CATALANOBALEAR
DE
MEDICINA INTERNA



L'Acadèmia

