

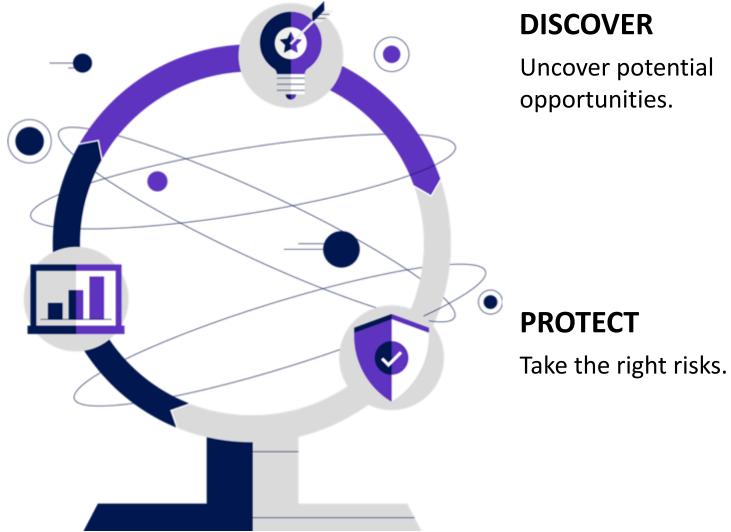
## Clarivate în procesul de inovare

Adriana FILIP - Solutions Consultant adriana.filip@clarivate.com

Ianuarie 2022



## The lifecycle of innovation



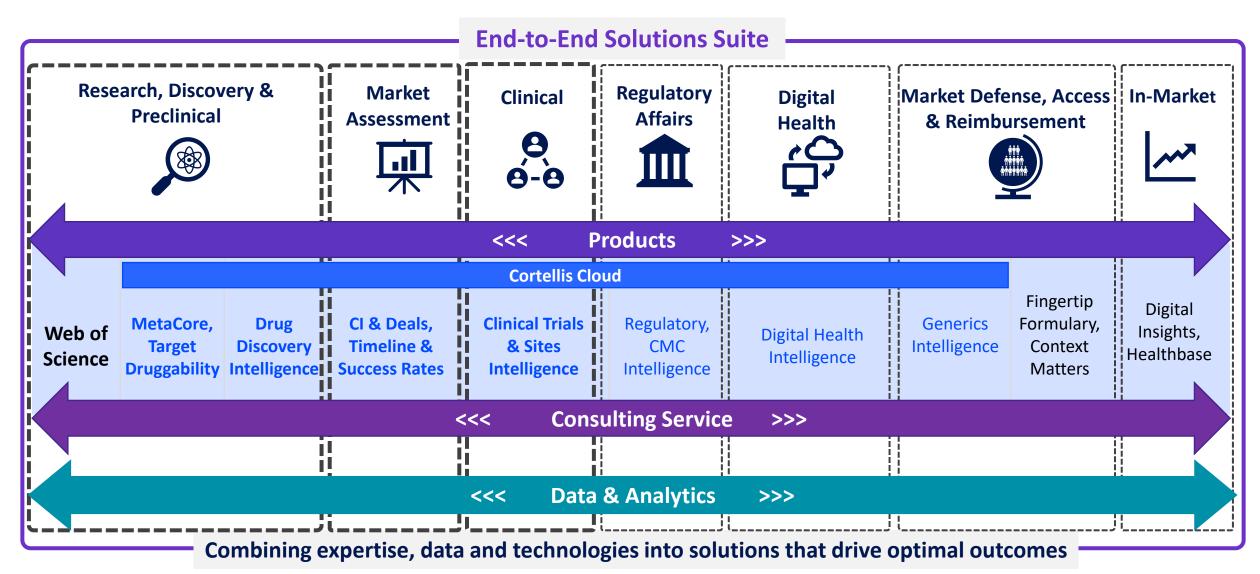
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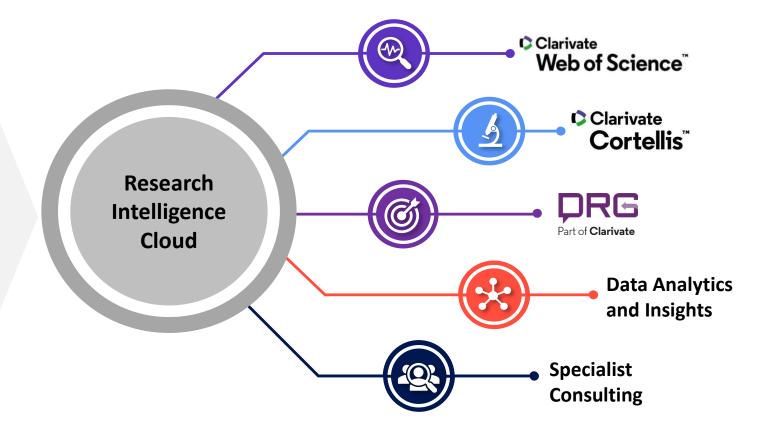
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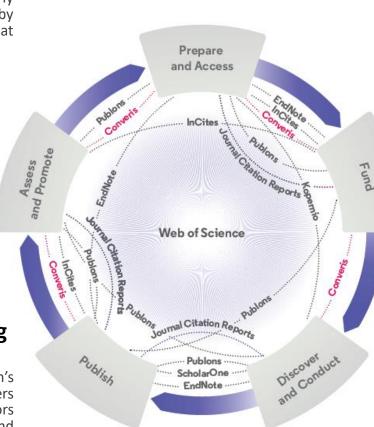
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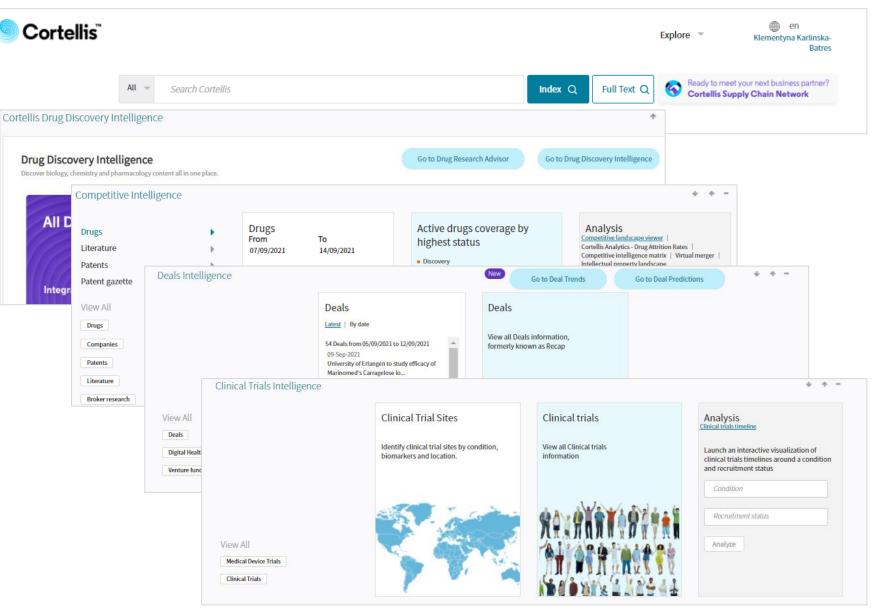
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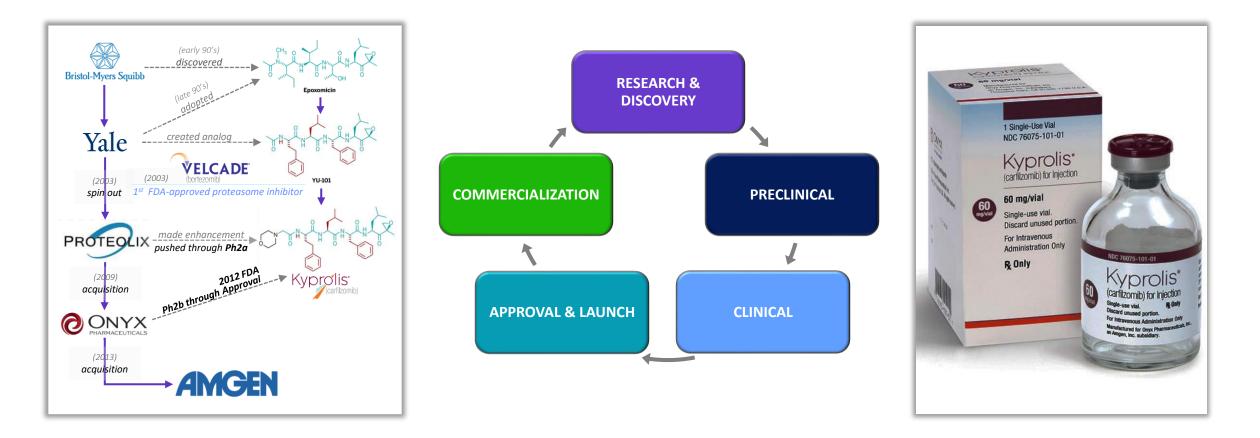


# Innovation life cycle on selected example *Kyprolis*



## Following Kyprolis as an example of an asset's journey

From discovery through in-market for its first indication, Multiple Myeloma





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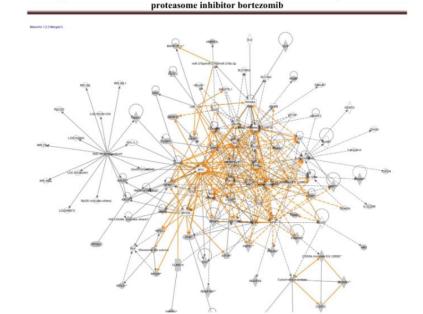
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2 Linkage of Bacterial Protein Synthesis and Presentation of MHC Class I-Restricted Listeria monocytogenes-De Antigenic Peptides



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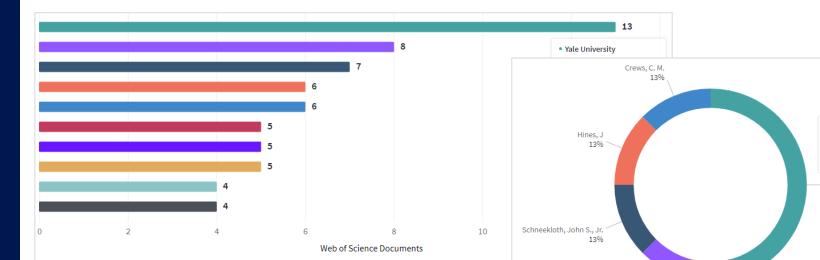
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- Monitor collaborations
- Investigate competitors' research funding

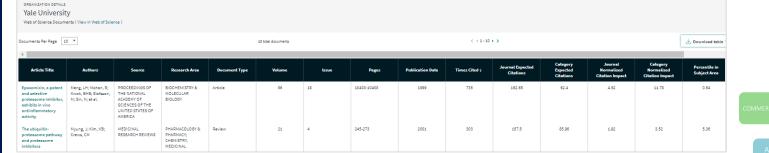
Fast-track and fund your most promising researchers and the breakthrough science in your area.

Clarivate



Yale University
 Leiden University
 Technical University of Munich
 University of Texas System
 University of C
 UTMD Anderson Cancer Center
 University of Turin
 A.O.U. Citta della Salute e della Scienza di Torino
 University

	Buckley, Dennis L. 13%									
Organization Name	Web of Science Documents	Times Cited 🗧 🛛 …	Category Normalized …	Rank	··· % Documents Cited ···	2070				
☐ Yale University	13	1,691	Citation Impact		Person Name	··· Affiliation ···	Rank	Web of Science Documents	Times Cited $\circ$	Category Normalized Citation Impact
Georgia Institute of Technology	1	768	3.97		Crews, Craig M.	Yale University Yale University	1	4	210	0.91
University System of Georgia	1	768	3.97		Schneekloth, John S., Jr.	Yale University	3	1	16	0.37
University of North Carolina	3	714	4.92		Hines, J	Yale University Yale University	4	1	3	0.17
University of North Carolina Chapel Hill	2	684	6.56		5 100%					





Crews, Craig M.

50% of total

Crews, Craig M. 50%

4 Web of Science Documents

#### **Derwent Innovation**

*The world's leading patent* research & analytics platform

- Assess patentability and freedom-to-operate
- Validate invention novelty
- Monitor new entrants or threats
- Analyze competitors' patent portfolios
- Investigate any litigation on an in-licensing candidate

Scan the innovation landscape with speed and confidence.

#### Clarivate<sup>™</sup>

WO20051058	327A2						
Add to Work file 🔻 📮 Ma	ark record 🐵 Watch record Download 🔻 Translate 🔻 🕲 Highlight 🖶 Print						
Key summary o	data						
Patent	Dead				Publication date	2005-11-10	
DWPI family	Alive View details				Expiration date	- O View factors	
INPADOC family	Alive View details				Remaining life	-	
Original assignee	PROTEOLIX INC., US	Abstract					
Optimized assignee	AMGEN INC Bibliography   Abstract   Classes/Indexing   Legal status   Family   Claims   Descriptio						
Bibliography		Novelty A compound for enzy	me inhibition is new	ι.			
Original Title COMPOUNDS FOR ENZY COMPOSES POUR L'INH English Title COMPOUNDS FOR ENZY Assignee/Applicant	IIBITION ENZYMATIQUE	Detailed description A compound having a to an occurrence of Z O, NH, N-C <sub>1-6</sub> alkyl, S	;L=absent or is C=O, 5, SO, SO <sub>2</sub> , CHOR <sup>10</sup>	C=S, or SO <sub>2</sub> , preferabl , or CHCO <sub>2</sub> R <sup>10</sup> ;Z=O, S	Formula (I), or Formula (II), whereA=C= y L is absent or C=O; M = absent or is C , NH, and N-C <sub>1-6</sub> alkyl, or optionally a c , any of which is optionally substituted	<sub>1-12</sub> alkyl;Q=absent or is O, NH, or N- covalent bond when adjacent to an c	C <sub>1-6</sub> alkyl;Y=absent or is occurrence of A;R <sup>1</sup> -R <sup>4</sup> =C
Standardized: PROTEOI	LIX INC 🖸 SMYTH MARK S 🖸 LAIDIG GUY J 🔽 BORCHARDT RONALD T 🖸 BUNIN						
Original: PROTEOLIX IN	C., 225 Gateway Boulevard, South San Francisco, CA 94080, US	W02005105827A2 in a		- in 20		0	
· · · · · · · · · · · · · · · · · · ·			02005105827A2 appear			Brazil	
Top invento		PLAINTIFF	PROTEOLIX	JURISDICTION		India Korea, Republic of United States	
Created 2020-09	-10	Onyx Therapeutics	Breckenridge Pharmaceutical	United States			
1300 - 1200 - 1100 -		Onyx Therapeutics	Cipla (+1 more party)	United States	🎓 - V		
1000 -		-	Onyx Therapeutics Breckenridge	India			
800-		Onyx Therapeutics	Pharmaceutical	United States			
900 - 800 - 700 - 600 - 800 -		15 more cases on Darts	s-ip			<b>O</b> View cases	
400 - 300 -		PROTEOLIX as plainti	ff	0	PROTEOLIX as defendant	0	
200 -	56 50 48 47 46 46 46 46 44	0 No cases found			20 PROTEOLIX appears in 20 cases	s as the defendant party.	
0	36 50 48 47 46 46 46 46 44	-					RESEARCH & DISCOVERY
	Inventor					,	DISCOVERY
<ul> <li>1. Other(1349</li> <li>2. Duran data</li> </ul>	Manual(47) Vistoria(46)					COMMERCIALIZATION	PRECLINIC
<ul> <li>2. Buggy, Jos</li> <li>3. GALMARINI</li> </ul>	Carlos 6. GARCÍA FERNÁNDEZ, Luis 9. Fyfe, Gwen(46)					K	¥
María(50) 4. Loury, Davi	Francisco(46) I 10. Elias, Laurence(44)					APPROVAL LAUNCH	
						© 2021	Clarivate 1

#### **Cortellis Drug Research Advisor** – **Target Druggability**

*Game-changing interactive* target ID & validation tool

- Quickly conduct target due diligence
- Verify if you have the best target
- Run a preliminary patent novelty check
- Investigate competition
- Prioritize your target

Increase the likelihood of selecting the best-in-class or first-in-class asset.



arget prio	oritization Complete novelty Condition novelty Early development	No pri	oritization 🚺					
	Cancer							
Rank	Target				Nu	mber of related reco	ords	
	Target main name		Gene symbol	Drugs	Experimental pharmacology	Animal models	Biomarker uses	Genetic eviden
	Select targets Deselect			filtered (total)		filtered (total)	filtered (total)	filtered (tot
1	Ubiquitin carboxyl-terminal hydrolase BAP1	[SYN]	BAP1			0 (10)	1 (336)	1 (2
2	Ubiquitin carboxyl-terminal hydrolase CYLD	[SYN]	CYLD		2	0 (8)	12 (163)	9 (1
3	Wyaluronan-binding protein 2	[SYN]	HABP2		37	0 (2)	0 (144)	1 (
4	Sintegrin and metalloproteinase domain-containing protein 23	[SYN]	ADAM23				0 (81)	1
5	A disintegrin and metalloproteinase with thrombospondin motifs 18	[SYN]	ADAMTS18				1 (72)	1
6	A disintegrin and metalloproteinase with thrombospondin motifs 14	[SYN]	ADAMTS14				0 (57)	1
7	Calpain-5	[SYN]	CAPN5	0 (1)		0 (3)	0 (62)	1
8	A disintegrin and metalloproteinase with thrombospondin motifs 19	[SYN]	ADAMTS19				0 (36)	1
9	Ubiquitin carboxyl-terminal hydrolase 49	[SYN]	USP49				0 (17)	1
10	Ubiquitin carboxyl-terminal hydrolase 17-like protein 11	[SYN]	USP17L11				0 (2)	1



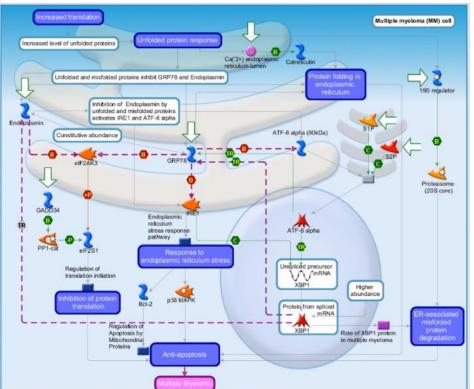
#### **MetaCore**

*Bioinformatics suite for functional analysis of OMICs data* 

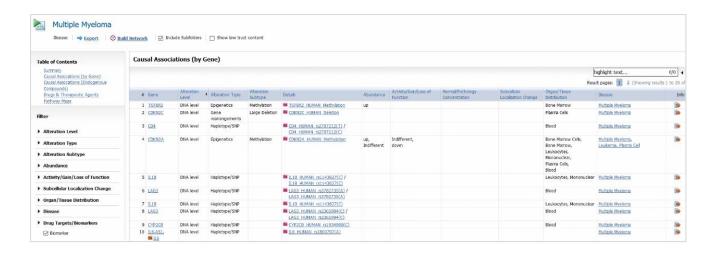
- Visualize how your target works
- Examine genetic evidence
- Gain a molecular understanding of the disease
- Identify novel biomarkers

Accelerate biomarker discovery and make better initial go/nogo decisions on your target.

Clarivate<sup>™</sup>









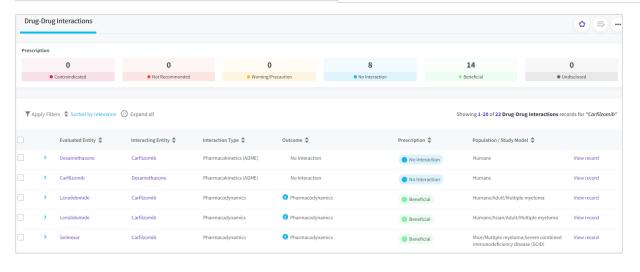
#### <u>Cortellis Drug</u> <u>Discovery Intelligence</u>

Comprehensive biology, chemistry & pharmacology data in one place

- Identify, prioritize and select drug candidates
- Monitor the target landscape
- Inspect competitor's activities
- Benchmark experimental performance
- Examine drug-drug interactions

Make better informed go/no-go pipeline and competitor-based decisions.

All results for "Proteasome Inhibitors"							
697 Drugs & Biologics View results Related content	97 Genes & Targets View results Related content	108       Organic Synthesis       View results     Related content					
11022 Experimental Pharmacology View results Related content	2025 Experimental Models View results Related content	8790 Pharmacokinetics View results Related content					
		□ ① Entry	Generic Name Brand Name	Product Category	Therapeutic Group	Mechanism of Action	Organization
0     Drug-Drug Interactions	6689 Clinical Studies	91537 Withdrawn-2007 Bay-s-128	Aprotinin Trasylol		Breast Cancer Therapy Hemostatics	Serine Protease Inhibitors	Bayer (Originator) National Cancer Institute (N
View results Related content	View results Related content	<ul> <li>211732 Launched-1997 AG-1343 AG-1346 ARV-SR0121 LY-312857</li> </ul>	Nelfinavir mesilate Viracept	Radiosensitizers	Anti-Coronavirus (CoV) Drugs Anti-HIV Agents Anti-Herpes Virus Drugs	HIV-1 Protease Inhibitors Proteasome Inhibitors Viral Fusion Inhibitors	Agouron (Originator) Japan Tobacco (JT) Japan Tobacco (Japan Tobacco (JT))
23895 Literature	Patents	Artel			Cervical Cancer Therapy		Maastricht Radiation Oncology (MAASTRO)
View results Related content	View results Related content						
5283 10793 Biomarkers Uses		199333 Launched-1996 L735524 MK459	Indinavir sulfate Crixivan		Anti-HIV Agents Kaposi's Sarcoma Therapy	HIV Protease Inhibitors	Istituto Superiore di Sanita MSD KK (Originator) Merck & Co. (Originator)
View results Related content		avertes -					





#### Cortellis CDDI – **Biomarkers**

Broadest coverage of biomarker uses at every stage of Drug R&D

- Identify biomarkers to stratify your patients
- **Better understand disease** pathology
- Examine a biomarker's uses and level of validity
- **Classify biomarkers into** lifecycle phases

Increase your probability of success in clinical trials, and accelerate drug development.

**Clarivate**<sup>®</sup>

								Biomarkers 🔻	"Protease Inhibito	irs"		x 🚱 Q	<b>\$</b> 0
E	iomarkers Bio	marker l	Jses Bioma	arker Kits								Ø	
	Apply Filters 💠 Sorted b	y relevance	2						Showing	g <b>1-20</b> of <b>8544 Bioma</b>	<b>irker Uses</b> records f	or " <b>Protease Inhibi</b>	tors"
E	iomarker Uses - C (620)	×											
	Biomarker Name 🛓		Indication $\stackrel{\scriptscriptstyle {\scriptscriptstyle \triangle}}{=}$	Populatior	n ÷	Role 🖕	Highest Validity 🌲	Drugs 崇	Supporting $\Rightarrow$	Supporting / \$ Conflicting	Conflicting $\ddagger$		
	Alanine transaminase	C	Sepsis, severe	Adult		Monitoring Treatment Efficacy	Late Studies in Humans	1	1	0	0	View Use	
	Creatine Kinase, MB Form	$\smile$	Systemic inflammatory response syndrome	Cardiovasc Disorders	ular	Monitoring Treatment Efficacy	Late Studies in Humans	1	1	0	0	View Use	
	Antithrombin III- protease complex		Occlusion, arterial coronary	High Risk		Monitoring Treatment Efficacy	Late Studies in Humans	1	1	0	0	View Use	
	Hemoglobin		Occlusion, arterial coronary	High Risk		Monitoring Treatment Efficacy	Late Studies in Humans	1	1	0	0	View Use	
	Biomarker Use Record		Siomarker Kits	ما، ام		Hanitasing Trankmant	I aka Chudiaa in	1	1	^	^	View Use	
	Biomarker Use Record		SIOMARKER KILS										
	General Inform	ation											
	Biomarker Name	Caspa	ase-3			Role	Mon	itoring Treatment Eff	ficacy				
	Indication Type	Cond	ition			Highest Va	lidity Early	Studies in Humans					
	Indication	Multij	ole myeloma			Population	n All						
	Techniques & S	ubstrat	tes										
	Technique 🚖	Substrat	e ⊕ Validit	γ ≑	Drugs 崇	Genetic Varian	ts 🖶 Supporting 🗧	Suppor	ting/Conflicting 🚔	Conflicting 🌲			
	Not specified	Not speci	fied Experin	nental	4	0	3	0		0			
	Spectrophotometry	Cell lysat	es Experin	nental	2	0	1	1		0			сог
	High Throughput Nucleotide Sequencing	DNA	Early SI Human	tudies in s	0	0	0	0		1			-001
							1			0			
	Real Time PCR	mRNA	Experin	nental	1	0	1	0		0			

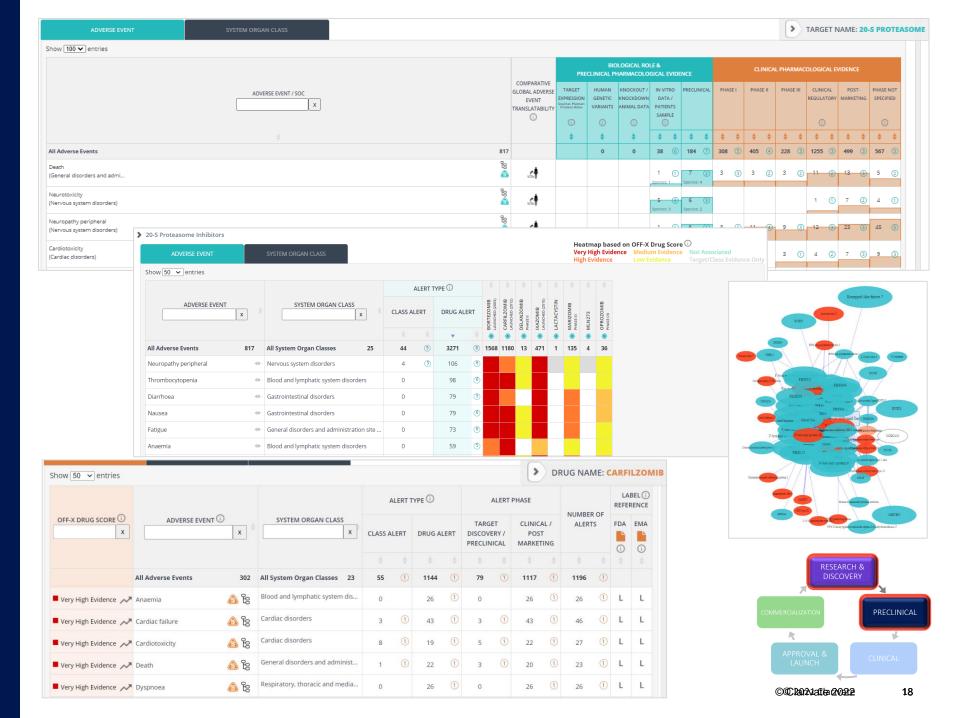


#### OFF-X

The largest translational safety & toxicity intelligence portal

- Anticipate toxicity & safety events
- Examine the safety profile of in-licensing candidates
- Investigate the toxicity of competing treatments
- Differentiate your asset
- Monitor regulatory concerns and liabilities

Design better and safer protocols which mitigate unintended risks to patients.



# PHASE 2 MARKET ASSESSMENT

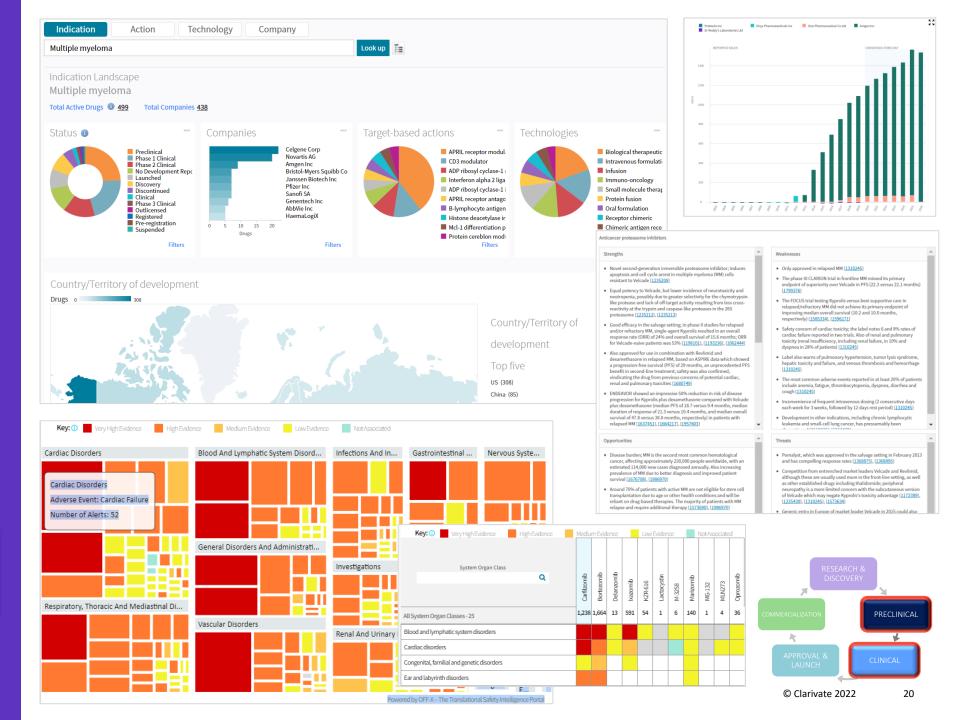


#### <u>Competitive</u> Intelligence

*The trusted and industry-leading drug pipeline database* 

- Efficiently track the competitive landscape
- Understand competitors' product positioning
- Differentiate your asset
- Assess expected product performance
- Determine potential market share
- Examine safety findings

Confidently make critical product, portfolio and competitor-based decisions.



#### **Deals Intelligence**

The gold standard biopharma deals database

- Quickly examine deal valuations & financial terms
- Easily benchmark funding, licensing, and M&A deals

Sai

- Analyze potential partners' deal history
- Inform deal negotiations
- Easily visualize deal trends & deal predictions (Q2 2021)

Make confident buy or build decisions and strike your best possible deal.

₹ Indica	ations: Multiple	myeloma 🔇 Clear /	AII		Company (Top 10)							III \$\$ 10	
					US Government							75	
Showir	ng <b>1-10</b> of 766	o results			National Cancer Institute							51	
					Bristol-Myers Squibb Co							50	
a Cust	omize Column	s 🔻 👫 Sorted by Dea	al Start Date 🔻		Multiple Myeloma Resear	rch Found	dation					41	
<b>V</b>	Start date & Status	Title	Principal Company	Johnson & Johnson							31	Deal Tran	
~	10-Jan-202	Sana Biotechnology	to use IASO Bio's BCMA	Nanjing IASO Biotherapeutic	Harvard Medical School							30	Basic Li
	Active	CAR Construct to de	velop and	•••	Celgene Corp							25	Basic Li
	Active	vivo hypoimmune	o gene therapy and ex		Amgen Inc							24	
		•••			Dana-Farber Cancer Instit	tute Inc						24	
Sana Biotech	nology to use IA	SO Bio's BCMA CAR Construct t	o develop and commercialize	e in vivo gene therapy and ex vivo hypoimmune	cell therapy for multiple myeloma	Socie	ty					23	Collabc
Snapshot		Highlight Search Terms & Syn	onyms < Previous Next >									December Company	
Drugs		SNAPSHOT						(	2			Browse Company	
Patents		Deal Title	Sana Biotechnology to use IASO Bi cell therapy for multiple myeloma	io's BCMA CAR Construct to develop and commercialize in viv	o gene therapy and ex vivo hypoimmune								
Contract		Principal Company	Nanjing IASO Biotherapeutics Co L	td (China) (Biotech)		. Drug - Early Research/Devel D					Dru	ıg	Researc
Events		Other Company Names (Principal Company)	Nanjing Xunlu Medical Technology	/ Co Ltd									
Venture Fund	ling	Partner Company	Sana Biotechnology Inc (US) (Biote	ech)		se					Total	Upfront 🔛 👘 🖉	
Mergers & Ac		Other Company Names (Partner Company)											Researd
Sources		Agreement Type	Drug - Development/Commercializ	zation License									
Similar Deals	New	Deal Asset Type	Drug; Product(s) only										
		Deal Transaction Type	Basic License (Licensee takes over)	)									
		Deal Status	Active									Mean 📒	Researc
		Territories										Median 📃	
		Total projected value (Current-USD M)	204.00										• ?
		Total projected value (At Signing-USD M)	204.00										
		Total Paid (USD M)	Payment Unspecified				cal -	cal	uo	- pə	ed -	— Phase	
		Therapy Area	Cancer				Clini Clinic	Clinic	strati	Registered	Launched		
		Indications	Multiple myeloma(Primary)				Phase 1 Clinical Phase 2 Clinical	Phase 3 Clinical	Pre-registration	Re	La		1
		Target-based Actions	APRIL receptor modulator				4 Å	Ph	Pre				ECLINICAL
		Other Actions	T-lymphocyte stimulator; Anticanc	cer; Genetically engineered autologous cell therapy; Immuno	stimulant								
		Technologies	Chimeric antigen receptor T cell th fusion; Receptor chimeric	erapy(Primary); Biological therapeutic; Immuno-oncology; Ir	nfusion; Intravenous formulation; Protein							APPROVAL &	×
		Number of Products/Options	Multiple ( More than 5)									LAUNCH	CLINICAL

# PHASE 3 CLINICAL TESTING



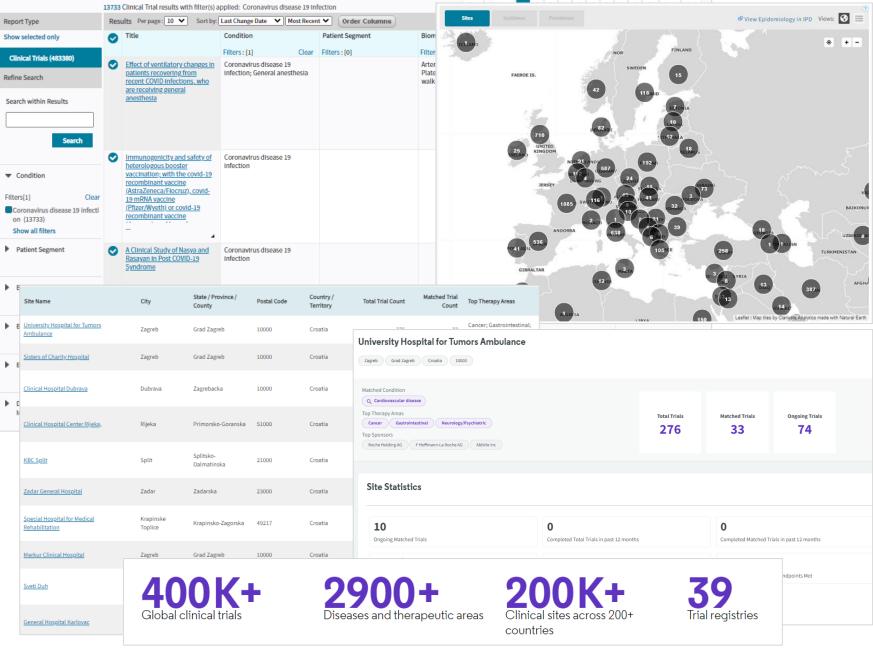
#### **Cortellis Clinical Trials Innteligence**

Insights into the landscape of ongoing clinical trials

- Evaluate the design of precedent studies
- Benchmark patient enrollment and timelines
- Define the right endpoints and select biomarkers
- Pinpoint adverse events
- Monitor competing trials

Cortellis

- Search for experienced sites
- Prioritize sites by performance, availability and competition

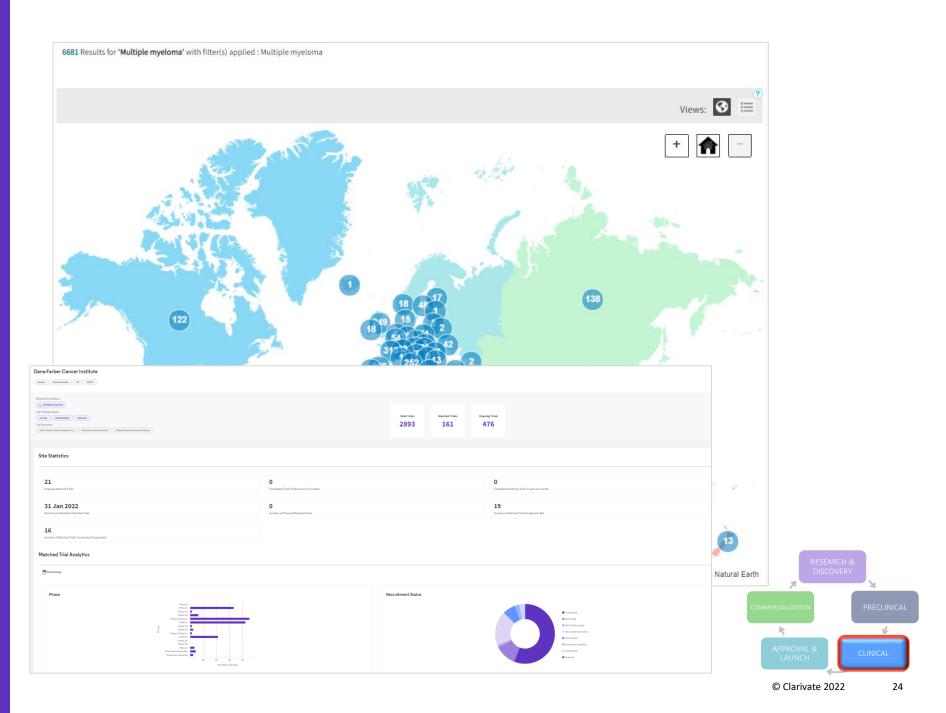


#### Download the factsheet →

#### **Cortellis Clinical Trials Innteligence** *Insight on global trial sites*

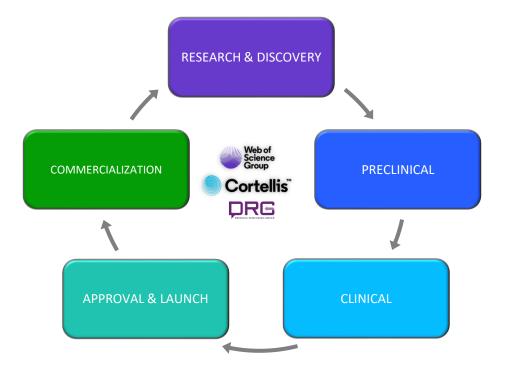
- Search for experienced sites
- Prioritize sites by performance, availability and competition
- Validate CRO input
- Uncover high level incidence and prevalence
- Identify experienced investigators (2022)

Position your clinical trials for greater success by selecting the best sites.



#### **Summary**

Unprecedented value from an end-to-end lifecycle perspective that empowers more proactive and better-informed decisions with speed and confidence.



Every product we use, medical treatment we receive and service we consume has been imagined, created and improved in a continuous, connected cycle of innovation.

**Clarivate** operates at the heart of that lifecycle. We give our customers the lens of clarity—the insights they need to turn bold ideas into life-changing innovations



# Vă mulțumesc!

Adriana FILIP Solutions Consultant

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www.clarivate.com

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#### **Additional resources**

- <u>Web of Science Learning</u> >
- <u>Web of Science Academy</u> >
- Events & Webinars >
- <u>LibGuides</u> >
- <u>Videos</u> >
- <u>Web of Science Blog</u> >
- <u>Web of Science news hub</u> >
- <u>Researcher Recognition ></u>











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