

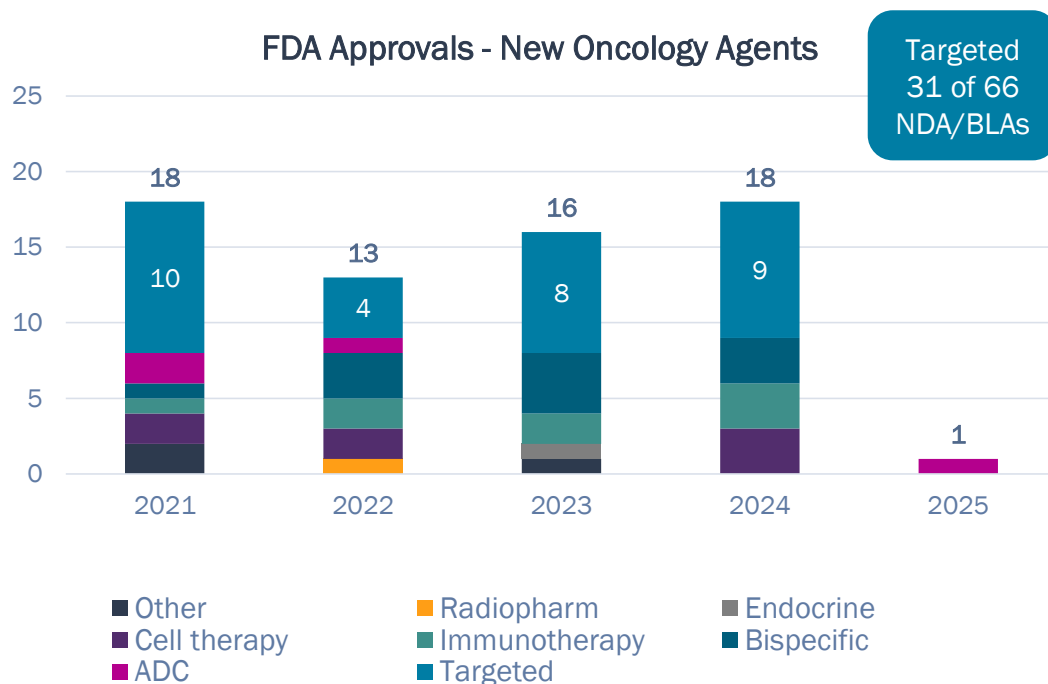
Oncology Pulse

New Oncology Agents – A Look Back and the Year Ahead

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Targeted therapy has been the driver of new oncology approvals in recent history, but a more diverse mix of MOAs have been approved in the past few years

New Oncology Agents – 2021 to Present



Targeted therapies account for <50% of new approvals in past 5 years, down from >65% in the prior 5 years

Half of drugs approved in 2024 had novel targets, like DLL3 and claudin18.2

The first cell therapies and T-cell engager for solid tumors approved in 2024

Wave of ADC dealmaking not yet impacting practice – Datroway only new ADC in 3 years, with established TROP2 target

9 of 18 drugs approved in 2024 have novel MOAs, including the first cell therapies and T-cell engager for solid tumors

2024 New Oncology Agents

	Targeted	Cell/Gene Therapy	IO	Bispecific	ADC	Endocrine	Radiopharm/Other
Approved	Ojemda (RAF) Rytelo (telomerase) Voranigo (IDH1/2) Niktimvo (CSF1R) Lazcluze (EGFR) Itovebi (PI3K) Revuforj (menin) Vyloy (claudin 18.2) Ensacove (ALK)	Amtagvi (TILs) Tecelra (MAGEA4) Aucatzyl (CD19)	Anktiva (IL-15) Tevimbra (PD-1) Unloxcyt (PD-L1)	Imdelltra (DLL3xCD3) Ziihera (HER2xHER2) Bizengri (HER2xHER3)			
Rejected/Deferred	Rivoceranib (VEGF)		Camrelizumab (PD-1)	Odronextamab (CD20xCD3) Linvoseltamab (BCMAxCD3)	Patritumab-DXd (HER3)		Iopofosine lomab-B (CD45)

Select Novel MOAs

- **Imdelltra** (tarlatamab - DLL3xCD3; Amgen): T-cell engager for 2L+ SCLC brings back to life ~5 years after failure of StemCentrx's Rova-T ADC
- **Zolbetuximab** (claudin18.2; Astellas): approval in gastric cancer was held up by a CMC issue; carves out a new segment in this high unmet need tumor type; potential to expand into other GI tumors and many claudin 18.2 ADCs hot on its heels
- **Amtagvi and Tecelra**: First solid tumor cell therapies (TILs and TCR, respectively) will provide insight into market dynamics for autologous therapies

Fewer new MOAs are anticipated in 2025, while the oral SERD class in HR+/HER2- breast cancer is poised for significant competition, with 4 pivotal readouts/approvals on the horizon

2025 New Oncology Agents

	Targeted	Cell/Gene Therapy	IO	Bispecific	ADC	Endocrine	Radiopharm/Other
Approved					Datroway (TROP2)		
Filed	Avutometinib (RAS) + Defactinib (FAK) Dordaviprone (ClpP/DRD2) Sunvozertinib (EGFR ex20) Taletrectinib (ROS1) Zongertinib (HER2)		Penpulimab (PD-1) RP-1 (oncolytic virus)	Linvoseltamab (BCMAxCD3) Odronextamab (CD20xCD3)	Blenrep (BCMA) Telisotuzumab vedotin (MET)	Imlunestrant (oSERD)	Mitomycin gel (chemo)
Filing Expected	Ziftomenib (menin) Rusfertide (hepcidin)		Sasanimab (PD-1)			Camizestrant (oSERD) Vepdegestrant (oSERD)	
Pivotal Readout Expected in 2025	Ceralasterib (ATR) Zongertinib (HER2) Zanzalintinib (multi-TKI) Bemarituzumab (FGFR) Iberdomide (CELMoD)		Fianlimab (LAG-3)		Zilovertamab vedotin (ROR1)	Giredestrant (oSERD)	

Fewer new MOAs poised for approval compared to last year

Select Novel MOAs

- **Ceralsertib (ATRI, AZ)**: Looking to replicate the success of Ph2 Hudson trial in PD-1 pretreated NSCLC
- **Bemarituzumab (FGFR, Amgen)**: Could bring a new biomarker to the gastric cancer landscape, though initial Ph3 does not include now SoC PD-1
- Two new potential ADC targets: **MET (teliso-v; AbbVie)** for NSCLC and **ROR1 (zilovertamab vedotin; Merck)** for DLBCL

Key Trends and Questions for 2025

Key Trends...

Early-stage setting takes center stage with IO and targeted therapy approvals

Cracking KRAS: next-gen G12C, first G12D and pan-(K)RAS emerging

Beyond PD-(L)1: SC formulations as lifecycle plays; many players chasing VEGF bispecifics

China licensing deals continue – picking up potentially “super me-too” assets in hot classes

TROP2 disappointments and TOP1 sequencing data take ADC enthusiasm down a notch

...Emerging Questions

How will ODAC ‘contribution of parts’ recommendation impact trial designs? Are surrogates like pCR, ctDNA ready for prime time?

Pros and cons of pan vs. specific inhibitors? How will order of entry impact opportunity and sequencing by tumor type?

Can VEGF bispecific/bifunctional approach deliver improved outcomes as PD-(L)1 LOEs near?

Are innovative molecules on the way? How long will the China licensing wave last given domestic funding environment?

Have we reached saturation for TOP1 payloads in clinical development? What novel payloads could emerge?

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