



The Alliance for Regenerative Medicine (ARM) is the leading international advocacy organization dedicated to realizing the promise of regenerative medicines and advanced therapies. ARM promotes legislative, regulatory, reimbursement and manufacturing initiatives to advance this innovative and transformative sector, which includes cell therapies, gene therapies and tissue-engineered therapies. Early products to market have demonstrated profound, durable and potentially curative benefits that are already helping thousands of patients worldwide, many of whom have no other viable treatment options. Hundreds of additional product candidates contribute to a robust pipeline of potentially life-changing regenerative medicines and advanced therapies. In its 13-year history, ARM has become the global voice of the sector, representing the interests of 450+members worldwide, including small and large companies, academic research institutions, major medical centers and patient groups. To learn more about ARM or to become a member, visit www.alliancerm.org.



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Foreword

wice a year, we survey the cell and gene therapy landscape and ARM's initiatives to advance the sector and provide an update to our members, our stakeholders, and the public at large. While external conditions ebb and flow, the sector's progress — in clinical milestones, regulatory developments, and patient impact — steadily advances.

It has already been a record year for the approval of new gene therapies to treat rare diseases. Two Chimeric Antigen Receptor T-cell (CAR-T) therapies for blood cancers have now been approved by the US Food and Drug Administration (FDA) as earlier-line treatments. The approval of new CAR-Ts this year in the US and Europe now means that a total of six CAR-Ts are available to patients in both regions. Ten years after the discovery of CRISPR, we are less than a year away from possible FDA approval of the first CRISPR therapy — for sickle cell disease, a once overlooked disorder that is now the single most targeted rare disease in ongoing regenerative medicine clinical trials. In June, a new version of gene editing, base editing, entered the clinic for the first time to treat familial hypercholesterolemia, a common cause of heart disease.

The investment headwinds, however, are clear. Following two successive record years of financing flowing into the sector, 2022 is on track for a significant retrenchment. The biotechnology sector's equity performance is down, with the strongest punishment doled out to small, early-stage cell and gene therapy companies. Inflationary conditions and expectations have been particularly unkind to the sector. Initial public offerings have nearly dried up, after hitting a record in 2021. But venture capital financing for the sector, while off its 2021 peak, remains robust and is the single largest driver of sector investment. This is a clear sign of continued excitement around scientific breakthroughs and the opportunity to change the treatment paradigm across a range of rare and prevalent diseases.

Europe's standing in developers, clinical trials, and investment continues to stagnate as growth flows to other regions. ARM remains heavily engaged with European Union (EU) policymakers on joint clinical assessments, the forthcoming revision of the pharmaceuticals legislation, and other policy initiatives that are crucial for the region to remain a leader. In the US, Congress' upcoming reauthorization of the Prescription Drug User Fee Act (PDUFA) will provide vital funding for new personnel and programs to support FDA review of the coming wave of new therapies. Efforts to change the payment and access paradigm continue, with a Centers for Medicare and Medicaid Services (CMS) rule to facilitate the use of outcomes-based payment models in state Medicaid programs that took effect in July. ARM's release of *Project A-Cell* in July is part of an ongoing initiative to carry the sector forward on the core challenge of Chemistry, Manufacturing and Controls (CMC).

The following pages of this report contain an overview of the clinical milestones and trials landscape, investment picture, and key ARM initiatives. This report depicts a landscape of steady progress, notable achievements, and resilience.



Regulatory Update



A Year with More Firsts

It has already been a record year for the approval of new gene therapies to treat rare diseases. In July, the European Commission (EC) authorized PTC Therapeutics' Upstaza, the first-ever gene therapy approved to treat the rare genetic nervous system disorder aromatic L-amino acid decarboxylase (AADC) deficiency. In August, the EC granted marketing authorization to BioMarin for Roctavian, the first-ever gene therapy to treat Hemophilia A. There has never been more than one new gene therapy to treat a rare disease approved in a single year; one more decision on a new gene therapy to treat a rare disease — EtranaDez from uniQure and CSL Behring to treat Hemophilia B — is expected by the end of 2022, perhaps in both the US and Europe. In other notable gene therapy news, bluebird bio's Zynteglo, which earned EU approval in 2019, was approved by the FDA in August to treat beta thalassemia in adults and children. An FDA decision on another bluebird bio therapy, eli-cel, for the treatment of cerebral adrenoleukodystrophy, is expected in September.

This has also been a notable year for CAR-T therapies. With the approval of Legend Biotech and Janssen's Carvykti in the US in February and in the EU in May, and the approval of Breyanzi in the EU in April, there are now six CAR-T therapies available in the US and EU. Novartis AG's Kymriah CAR-T therapy was granted accelerated approval by the FDA in May of this year to treat adult relapsed or refractory (R/R) follicular lymphoma. In addition, the therapy is approved for adults with R/R diffuse large B-cell lymphoma and for pediatric use in children and young adults with R/R acute lymphoblastic leukemia. This makes Kymriah the only CAR-T therapy approved for both adult and pediatric settings.

CAR-T therapies are also becoming earlier treatment options. In 2022, Kite Pharma's Yescarta received market authorization as a second line treatment by the FDA for R/R large B-cell lymphoma. The FDA also granted approval to Bristol-Myers Squibb for Breyanzi as a second-line treatment for R/R large B-cell lymphoma. It is also under review in Europe as a second-line treatment.

Approved Therapies

New Therapies Approved in 2022

Carvykti (CAR-T)

Legend Biotech & Janssen R/R multiple myeloma US (Feb 2022) EU (May 2022)

Roctavian (Gene Therapy)

BioMarin Pharmaceutical
Hemophilia A
EU (August 2022)

Upstaza (Gene Therapy) *PTC Therapeutics*

Aromatic L-amino acid decarboxylase (AADC) deficiency EU (July 2022)

Therapies Approved in New Geographies or New Indications in 2022

Breyanzi (CAR-T)

Bristol-Myers Squibb

R/R Large B-cell lymphoma

Primary mediastinal large

B-cell lymphoma

Follicular lymphoma grade 3B

EU (April 2022)

R/R Large B-cell lymphoma

US (June 2022, second-line)

Kymriah (CAR-T) Novartis

R/R follicular lymphoma US (May 2022)

Yescarta (CAR-T)

Kite Pharma (Gilead)
R/R large B-cell lymphoma
US (April 2022, secondline)
R/R follicular lymphoma EU
(June 2022)

Zynteglo (Gene Therapy)bluebird bio inc.

Beta-thalassemia US (August 2022)

Therapies Anticipating Decisions

Several other therapies are on track for regulatory decisions in late 2022 and 2023, indicating an active late-stage pipeline.

In Europe, Atara Biotherapeutics has reported that Tab-cel, a cell therapy to treat Epstein-Barr virus-associated post-transplant lymphoproliferative disorder, is on track to receive a regulatory decision in the fourth quarter of 2022.

In the US, Gamida Cell's Omidubicel, designed for blood cancer patients who need an allogenic hematopoietic stem cell transplant, is expecting an FDA decision in January of 2023. Similarly, Stemcyte's HPC Cord Blood, which is used for patients who need hematopoietic progenitor cell transplantation, had its Biologics License Application (BLA) accepted this year and an approval decision is expected in 2023.

The FDA has also accepted a priority review of Krystal Bio's BLA for its B-VEC gene therapy, which is used to treat patients with dystrophic epidermolysis bullosa. A regulatory decision is anticipated by the FDA by February of 2023.

Anticipated Regulatory Decisions

2022

eli-cel* (Gene Therapy)

Bluebird bio Inc

Early active cerebral adrenoleukodystrophy (CALD)

EtranaDez (Gene Therapy) uniQure & CSL Behring Hemophilia B

Tab-cel (Cell Therapy)

Atara Biotherapeutics Inc

Epstein-Barr virus-associated post-transplant lymphoproliferative disorder (EBV+PTLD)

EtranaDez (Gene Therapy)

uniQure & CSL Behring Hemophilia B

2023

Afami-cel (Cell Therapy)

Adaptimmune Therapeutics

Advanced synovial sarcoma

CTX001 (CRISPR Therapy)

CRISPR Therapeutics &

Vertex Pharmaceuticals

Sickle cell disease (SCD) & beta-thalassemia

bb1111 (Gene Therapy)

HPC cord blood (Cell Therapy) StemCvte

bluebird bio

Sickle cell disease

Unrelated Donor hematopoietic progenitor cell

transplantation (HSCT)

fidanacogene elaparvovec (Gene Therapy)

Pfizer (formerly Spark Therapeutics)

Hemophilia B

Omidubicel (Cell Therapy) Gamida Cell

Dystrophic epidermolysis bullosa

B-VEC (Gene Therapy)

Krystal Bio

Hematopoietic stem cell transplant in patients with hematological malignancies (blood cancer + HSCT)

R/R multiple myeloma **Libmeldy** (Gene Therapy)

CT-053 (CAR-T Therapy)

CARsgen Therapeutics

Orchard

Metachromatic

Hemophilia A

leukodystrophy (MLD)

Roctavian (Gene Therapy)

BioMarin

Tab-cel (Cell Therapy) *Atara Biotherapeutics Inc*

Epstein-Barr virus-associated post-transplant lymphoproliferative disorder (EBV+PTLD)

B-VEC (Gene Therapy)

Krystal Bio

Dystrophic epidermolysis bullosa

Lifileucel (TIL therapy)

lovance

Metastatic melanoma

Upstaza (Gene Therapy)

PTC Therapeutics

Aromatic L-amino acid decarboxylase (AADC) deficiency

Lumevog (Gene Therapy)

GenSight Biologics SA Leber hereditary optic neuropathy (LHON)

^{*}Approved as "skysona" after initial publication on 9/16/2022.

Therapies on Fast-track

Several regenerative medicine therapies in the US and EU have been placed into designations that can "fast-track" a regulatory decision. In the US, the Regenerative Medicine Advanced Therapy (RMAT) designation is designed for cell and gene therapies, therapeutic tissue engineering products, and human cell and tissue products intended for serious or life-threatening diseases or conditions. In the EU, the PRIority MEdicines (PRIME) designation is a process that enhances support for the development of medicines that target an unmet need.

RMAT Designation

ALLO-501A (CAR-T Cell Therapy)

Allogene Therapeutics Inc R/R non-Hodgkin lymphoma

CCAR-039 (CAR-T Cell Therapy)

Cellular Biomedicine Group Inc R/R non-Hodgkin lymphoma

CT-041 (CAR-T Cell Therapy)

CARsgen Therapeutics Ltd Claudin18.2 (CLDN18.2) positive advanced GC/GEJ

obe-cel (CAR-T Cell Therapy)

Autolus Therapeutics Inc R/R B-cell acute lymphoblastic leukemia

ExoFlo (Cell Therapy)

Direct Biologics
Acute respiratory distress syndrome

Posoleucel (Cell Therapy)

AlloVir Inc

BK virus, cytomegalovirus, adenovirus, Epstein-Barr virus, human herpesvirus 6 and JC virus

REACT (Cell Therapy)

*Prokidney Corp*Diabetic kidney disease

SkinTE (Tissue Engineering)

PolarityTE

Chronic cutaneous ulcer

AProArt (Gene Therapy)

UC San Francisco
Artemis-SCID

NeoCart (Tissue Engineering)

Ocugen

Articular cartilage lesion of the knee

PRIME Designation

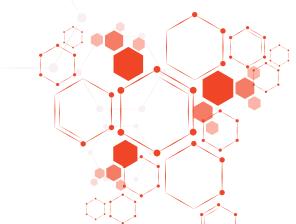
BNT-211 (CAR-T Cell Therapy)

BioNTech SE Advanced solid tumors

ADVM-022 (Gene Therapy)

Adverum Biotechnologies Inc

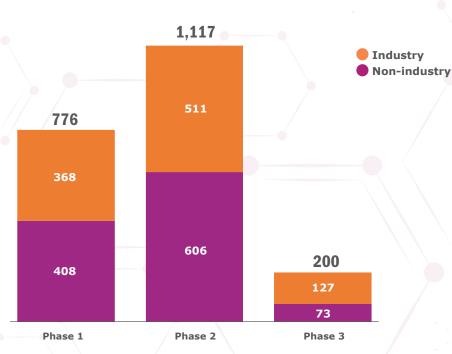
Neovascular or wet age-related macular degeneration



Clinical Trials by the Numbers

There were 2,093 trials ongoing globally at the end of June 2022, a 13% decrease from the end of 2021. Industry sponsored trials are back at the levels they were in 2019 and 2020. Non-industry trials (academic and government sponsors) have continued their decline since 2018.

Active Clinical Trials by Sponsor and Phase



Previously, academic- and government-sponsored trials outpaced industry trials. Now, industry and non-industry are at near-parity with 1,006 (48%) and 1,087 (52%) ongoing trials, respectively.

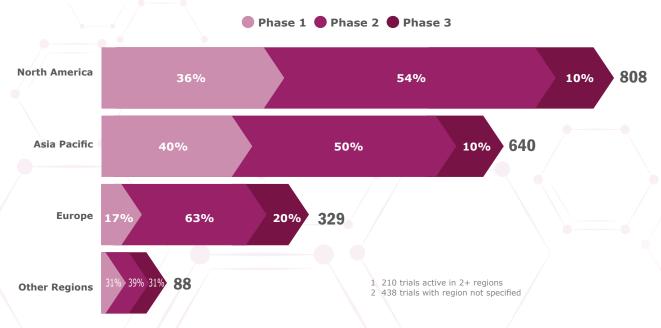
There are 776 (37%) trials in phase 1, the smallest decrease from 2021 at 8%. Phase 2 trials are the largest bucket at 1,117 trials (53%), down 17% from 2021. Phase 3 comprises the remaining 200 trials (10%), a 10% decrease from 2021.



Clinical Trials by Region

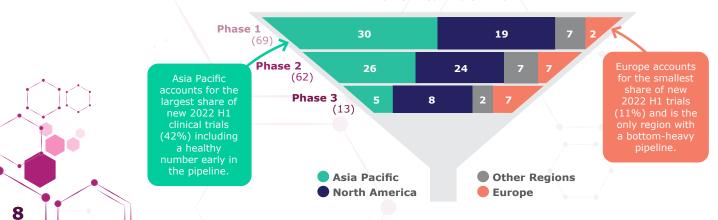
By region, North America leads with 808 active clinical trials (down 15% from 2021), followed by Asia Pacific with 640 trials (down 15%), Europe with 329 (down 14%), and 88 active trials in all other regions (down 7%).





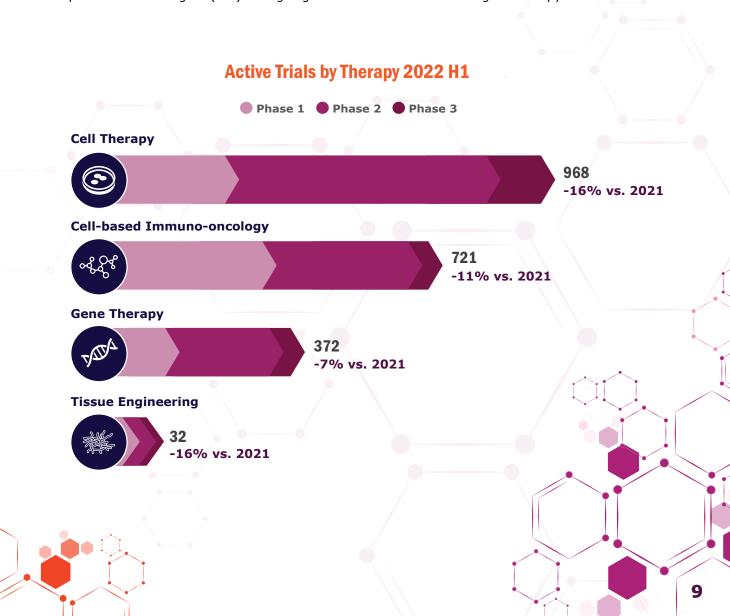
Asia Pacific takes the lead; Europe pipeline slows to a trickle

144 New Clinical Trials in 2022 H1



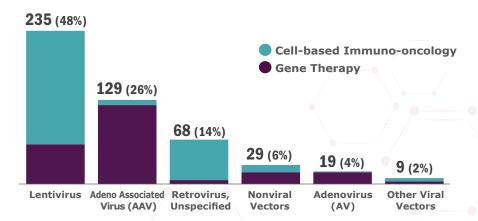
Trials by Therapeutic Approach and Area

Cell therapies make up the largest category of ongoing trials (968, 46%), followed by cell-based immuno-oncology (CBIO) (721, 34%) and gene therapies (372, 18%). Tissue-engineered therapies comprise the remaining 32 (2%) of ongoing clinical trials in the cell and gene therapy sector.



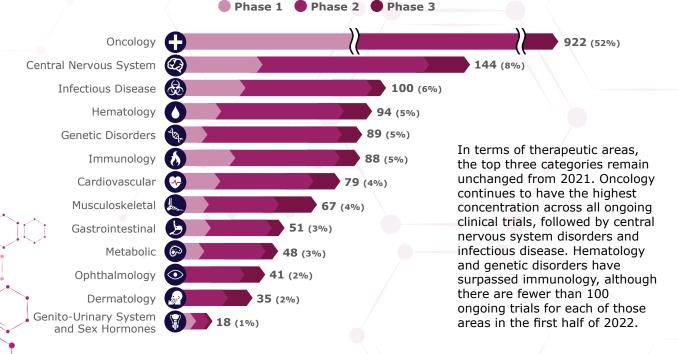
Therapeutic Vectors

The gene modification vector is known for 489 (45%) of the 1,093 ongoing gene therapy and CBIO trials. Lentivirus is the most common vector across both gene therapy and CBIO, driven by its dominant position in CBIO trials. Adeno associated virus (AAV) ranks second among vectors used, and is the primary vector for gene therapy trials. Retrovirus follows in third place, again dominated by CBIO.



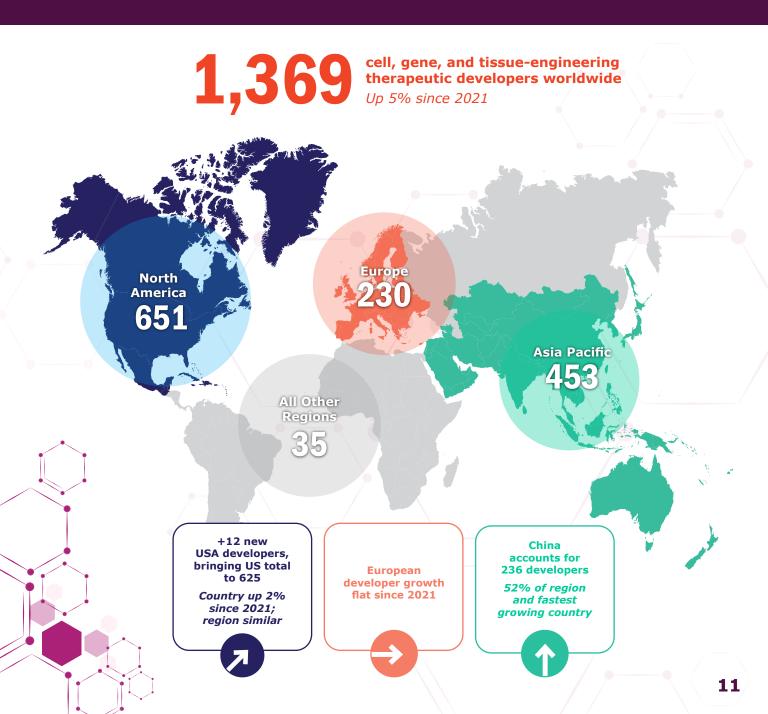
- 1 Percentages (%) based on trials with known vectors; 604 trials with vector unknown
- 2 Nonviral vectors include plasmid, transposon, and nanoparticles
- 3 Other viral vectors include herpes simplex virus (HSV)

Therapeutic Areas



- 1 Percentages (%) based on trials with known therapeutic areas; 317 trials with area unknown or unclassified
- 2 Unlisted areas include known areas with small numbers (<10) of CGT trials including mouth/dental, ear-nose-throat, and unspecified male/female disorders

Cell and Gene Therapy Developers Worldwide



Global 2022 H1 Quick Facts









Europe



651 +2% vs. 2021

453 +10% vs. 2021

230 0% vs. 2021



808
INDUSTRY 472
ACADEMIC / GOV'T 336
-15% vs. 2021

640
INDUSTRY 294
ACADEMIC / GOV'T 346
-15% vs. 2021

329
INDUSTRY 178
ACADEMIC / GOV'T 151

-14% vs. 2021



\$5.6B 53 DEALS -68% YOY \$675MM 23 DEALS -69% YOY \$398MM 13 DEALS -88% YOY

- 1 188 industry trials, 22 non-industry trials active in multiple regions
- 2 214 industry trials, 224 non-industry trials with region unknown/unspecified

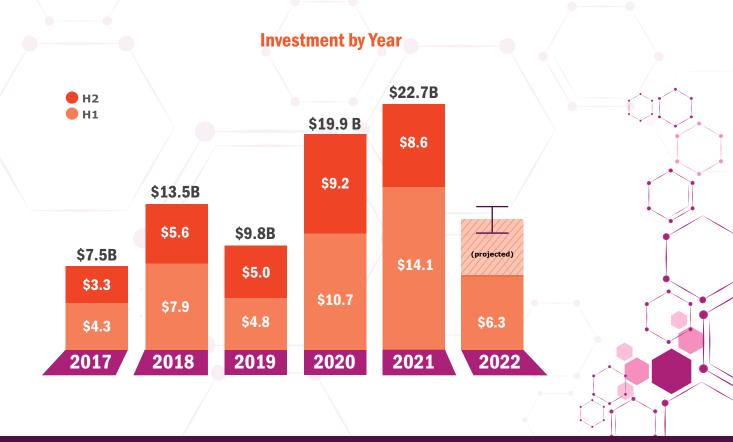


Sector Investment



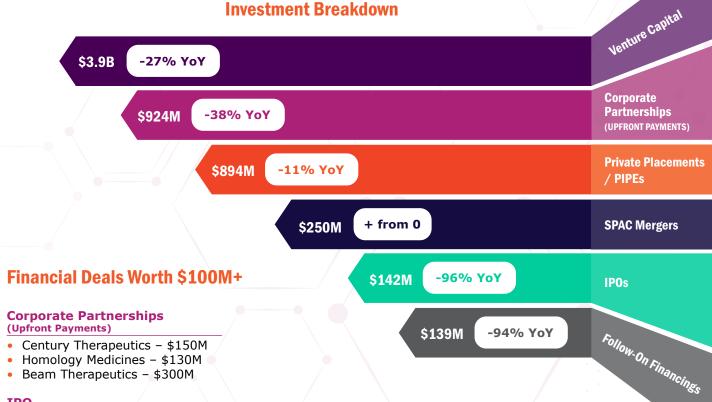
After two record-breaking years in investment for regenerative medicine and advanced therapies, the sector's 2022 performance is trending back to the levels of 2018 and 2019. During the pandemic in 2020 and 2021, the biotech sector saw an unprecedented uptick in investment due to strong public attention on healthcare innovation and the low cost of capital. Based on current patterns, 2022 is likely to land between \$9.8B and \$13.5B in total annual investment, the sector performance from 2019 and 2018, respectively.

What is the culprit of this downturn? External factors including inflation and a retrenchment in biotech financing, including cell and gene therapy, after record levels of investment have combined to produce an extremely challenging investment environment during 2022. The slowdown affects nearly all parts of the interconnected financing system, from early-stage venture capital to initial public offerings (IPOs) and the performance of publicly traded companies. Small, early-stage companies — and there are many such cell and gene therapy companies — are particularly affected by inflation expectations because they are furthest from generating profits.



Despite a 27% decrease in venture capital from H1 2021, it remains a bedrock of funding for the sector and is pacing at 40% of 2021 FY — the smallest decline of the financing categories along with private placements (which increased in number from 3 to 11 YoY). This indicates continued investor excitement about scientific breakthroughs and new treatment possibilities.

IPOs for the first half of 2022 saw a significant decline from prior years with only 2 completed. However, 2 additional IPOs have been filed and are pending.



IPO

Arcellx – \$124M

Private Placement / PIPE

- ProKidney Corp \$575M
- 2seventy bio \$170M
- Castle Creek Biosciences \$112.8M

SPAC

ProKidney Corp - \$250M

Venture Capital

- ImmPACT Bio \$111M
- Amplify Bio LLC \$100M
- Aspen Neuroscience \$147.5M
- Aurion Biotech \$120M
- Be Biopharma \$130M
- Frontera Therapeutics \$160M
- SalioGen Therapeutics \$115M
- Metagenomi \$175M

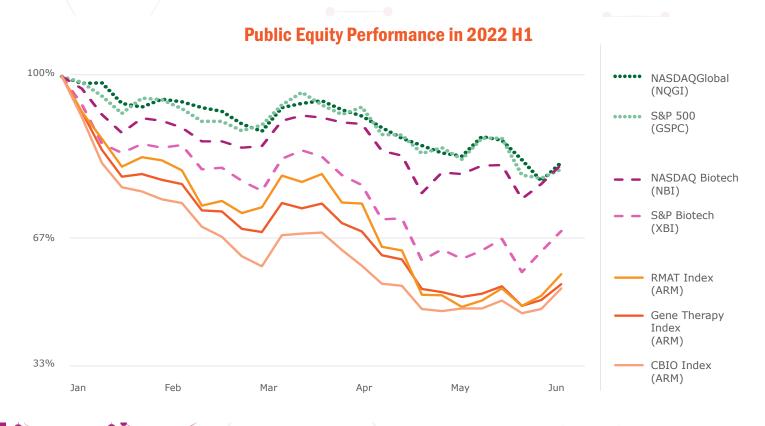
- Kriya Therapeutics \$270M
- Maze Therapeutics \$190M
- ReCode Therapeutics \$200M
- National Resilience \$625M
- Satellite Bio \$110M
- Affini-T Therapeutics \$175M
- Tessa Therapeutics \$126M

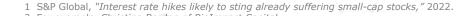
Public Equity Performance in 2022 H1

Public equity and capital markets overall have trended down in the first half of 2022; the biotechnology sector initially performed worse than general indices but more recently has outpaced the general recovery. Indices that give higher weight to companies with larger market capitalization, such as NASDAQ's NBI, have followed the broad indices more closely while indices that provide proportionally more weight to smaller companies, such as the S&P Biotech ETF, experienced larger decreases.

S&P Global's¹ research shows that inflationary fears and potential interest rate hikes have adversely impacted the valuation of publicly traded companies that are smaller and in earlier stages of development. This includes cell and gene therapy developers, which have closely followed the trend lines of broader biotech indices but at lower valuations.

Despite this downward trend, some analysts² suggest this decline is not related to biotech's poor performance but an overcorrection by investors because of external factors like inflation and supply chain constraints.





² For example, Christina Bardon of BioImpact Capital



ARM Advances the Sector



Shaping the Policy and Regulatory Landscape in the US and Europe

UNITED STATES

ARM continues to focus on the removal of barriers to the use of innovative payment models, improving regulatory clarity on CMC issues, and ensuring the timely passage and implementation of the Prescription Drug User Fee Act (PDUFA) VII.

During our Congressional Fly-In held June 7–8, 2022, ARM and our members asked Representatives and Senators to support and co-sponsor the Medicaid VBPs for Patients (MVP) Act and for the timely reauthorization of PDUFA. ARM will continue to advocate for the MVP Act as currently drafted and other efforts to facilitate the use of innovative payment models during this, and the next, Congress. The implementation of PDUFA VII will be a focus of ARM's upcoming FDA liaison meeting on October 28, along with leveraging platform approaches to help speed the development of gene therapies.

Also on the regulatory front, ARM has responded to a variety of FDA proposed guidances, ranging from utilization of real-world data, genome editing, clinical trial diversity plans, and CAR-T therapy development. On the state level, ARM hosted a panel and reception in Columbus in May to showcase Ohio's success in building a cell and gene therapy hub that was attended by 20 policymakers. ARM is planning an event in Austin, Texas this fall focusing on access and reimbursement challenges for cell and gene therapies.

PDUFA VII

Contains several priorities for the cell and gene therapy sector, including an increase in resources to help the Center for Biologics Evaluation & Research (CBER) review the coming wave of transformative therapies and a pilot program to develop alternative, more efficient ways to review CMC data.

Where it's heading: The House and Senate HELP Committee cleared their reauthorization proposals, and parties in both chambers are negotiating to find consensus before the current authorization expires at the end of September. We expect a compromise resulting in the timely reauthorization of PDUFA.

MVP Act

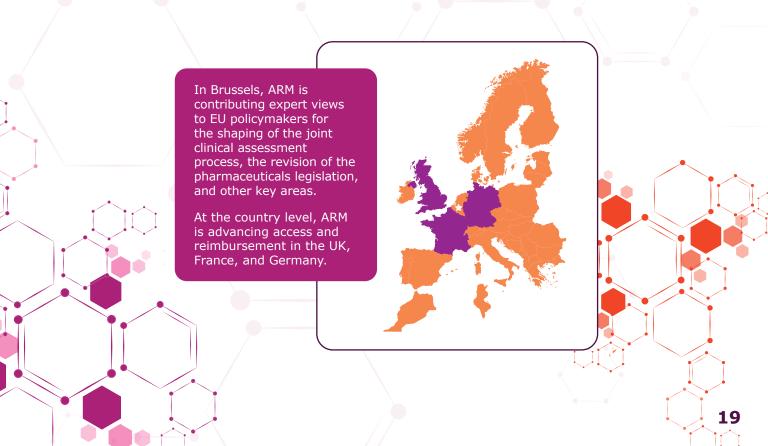
Addresses barriers to the implementation of innovative payment models in the Medicaid program. The legislation codifies a CMS rule that took effect on July 1, 2022, that addresses *Best Price* regulations, while also addressing antikickback regulations and modifying the definition of *Average Manufacturer Price* to accommodate value-based payment agreements.

EUROPE

ARM continues to inform EU policymakers about the region's declining competitiveness in advanced therapy medicinal product (ATMP) developers, clinical trials, and investment. We are emphasizing the opportunity for policy changes in the upcoming pharmaceuticals legislation revision, the joint clinical assessments framework, and other initiatives to re-establish Europe as a leading destination for the sector.

ARM recently responded to the EC's proposed regulation regarding 'substances of human origin' (SoHO), advocating for the EMA to play a central role in resolving 'borderline' cases between SoHOs and ATMPs. ARM is also active in providing recommendations on how the EU's joint clinical assessment process — which will take effect in 2025 — can be fit-for-purpose for the evaluation of ATMPs. We expect the EC to release proposals for the revision of the pharmaceuticals legislation in early 2023, kicking off negotiations with the European Parliament and Council that will be central to the ATMP sector in Europe.

ARM will organize an event in the European Parliament in November focusing on the sector's core policy issues in Europe. On the country level, ARM has increased its engagement in the United Kingdom (UK), France, and Germany on access and reimbursement issues.

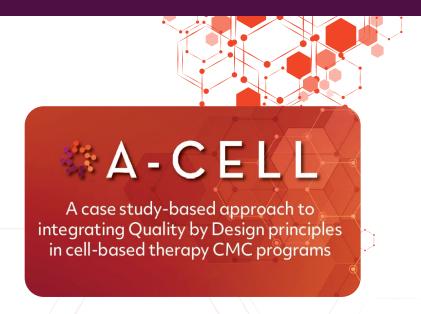


Advancing A-Cell and A-Gene

A-Cell

ARM and the National Institute for Innovation in Manufacturing BioPharmaceuticals (NIIMBL) released *Project A-Cell* on July 26 of this year. A-Cell is a multistakeholder collaboration to incorporate Quality by Design (QbD) principles into a manufacturing case study of a CAR-T therapy.

It brings best practices and a standard methodology for CMC to the cell-based therapy field, which faces challenges to manufacturing scale-up. A-Cell emulates previous QbD efforts that were applied to the manufacturing of monoclonal antibodies (A-Mab), vaccines (A-Vax), and more recently, gene therapies (A-Gene). More than 50 industry experts from over 30 leading therapeutic developers, as well as regulatory experts and the Standards Coordinating Body, contributed to A-Cell.



"A-Gene is already making a significant impact as an educational and workforce development tool for the gene therapy sector. We think A-Cell will similarly advance the cell therapy field and help to deliver durable and potentially curative treatments for a range of serious cancers and other diseases."

 Michael Lehmicke, Vice President, Science & Industry Affairs, Alliance for Regenerative Medicine

View the Report

Advancing A-Cell and A-Gene

A-Gene

Released in June of 2021, Project A-Gene is a case study-based approach to integrating QbD principles into gene therapy CMC programs. Throughout late 2021 and 2022, ARM hosted six A-Gene webinars to cover the study in detail.

ARM and the sector will now focus on how to implement the best practices for gene therapy put forth in the case study. In addition to its use as a tool by therapeutic developers, A-Gene has received traction in university programs focusing on the sector, including the University College of London.



A-Gene Webinar Series



Six webinars attended by more than 500 ARM members



Webinar recordings were viewed over **2,000** times



The case study document has been viewed over **5,000** times on ARM's website.



Meeting on the Med



Revisit your favorite
Med moments by
exploring the recorded
sessions on our
YouTube channel.



Shaping cell and gene therapy in Europe

ARM's 2022 *Cell & Gene Meeting on the Med* was delivered in a hybrid format on April 20–21 at the Hotel Arts Barcelona. The event featured panel sessions and fireside chats, in-person and virtual company presentations, and exclusive, one-on-one partnering meetings. More than 650 professionals from 319 organizations attended the meeting in person, making it the largest *Meeting on the Med* to date. The 2022 *Meeting on the Med* was sponsored by 55 organizations and convened more than 1,000 partnering meetings. European Commissioner for Health and Food Safety Stella Kyriakides provided a virtual welcome address for attendees.

Thank you to all those who attended, and we look forward to seeing you at the next meeting!

Join us for our next major event!



October 11–13, 2022 Carlsbad, CA

Register today!





The 2022 Congressional Fly-In

Championing the sector on Capitol Hill

On June 7-8, ARM held its first in-person Congressional Fly-In since 2019. More than 85 representatives from ARM member organizations met with House and Senate offices from 15 states. Members engaged with leading US policymakers to advocate for important pieces of legislation, specifically the reauthorization of PDUFA and the MVP Act. At a membership dinner the night before the Fly-In, attendees heard from patient advocate Jimi Olaghere, who participated in a groundbreaking clinical trial for a gene-editing therapy to treat his sickle cell disease.





Jimi Olaghere addressing attendees at the first night of ARM's Congressional Fly-In.



Representative Tom Emmer of Minnesota's 6th Congressional District speaking at the second day of ARM's Fly-In.



GROW RegenMed Internship Program

Inclusively developing the sector's next generation of leaders

In the biotech field, minority populations continue to be underrepresented among employees and leadership. In 2020, ARM formed the Action for Equality Task Force to determine concrete steps ARM and its members can take to improve equality and inclusion. As a result, the Task Force formed the GROW RegenMed Internship Program to connect Black undergraduate and graduate students with the field of regenerative medicine. This summer marks the second year of the GROW program, with 18 interns hosted by 14 ARM member organizations. Each intern gets practical experience through working in the sector in roles ranging from marketing to the bench.

Learn more about the internship program and how to host a GROW intern in 2023 and beyond.

Summer 2022 GROW RegenMed Interns



Benga Adegbite
Amicus Therapeutics



Stefan BaileyDark Horse Consulting Group, Inc.



Nathanael Brignol



Adrianna Brown
Enzyvant Therapeutics



Tolandra Coleman Alliance for Regenerative Medicine



Rahawa Ghebreful
Arbor Biotechnologies



Devyn Hill



Kiarra Lavache BlueRock Therapeutics



Divine OgievaCRISPR Therapeutics



Zainab Olushoga Tenaya Therapeutics



Salisha Peeler Passage Bio



Madison Pope
Dark Horse Consulting Group, Inc.



Henry Renelus
BlueRock Therapeutics



Jazmine Richardson National Hemophilia Foundation



Willie Richardson
Castle Creek Biosciences



Kimiyonn Sadler
Project Farma



Taliyah Townsend REGENXBIO Inc.



Alissa Wells REGENXBIO Inc.

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University of Pennsylvania

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BridgeBio

Susan NicholsPresident & CEO,
Propel BioSciences

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Louise Rodino-Klapac, Ph.D. EVP, Chief Scientific Officer, Sarepta

Jeff Ross, Ph.D. *CEO*, Miromatrix Medical

Laura Sepp-Lorenzino, Ph.D.

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