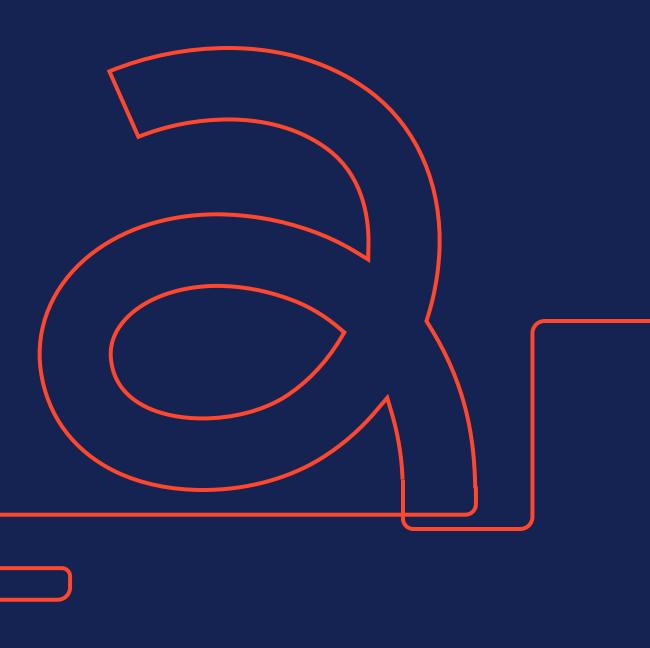


We translate ideas into drugs.

Corporate Presentation

September 2021



Disclaimers

Forward-Looking Statements

Certain statements in this presentation that are not historical facts are considered forward-looking within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including statements containing the words "will," "may," "anticipates," "plans," "believes," "forecast," "estimates," "expects," "aim," and "intends," or similar expressions. We intend these forward-looking statements, including statements regarding our strategy, future operations, future financial position, future revenue, research and development activities, growth plans, projected costs, prospects, plans and objectives of management, to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Securities Exchange Act, and we make this statement for purposes of complying with those safe harbor provisions. These forward-looking statements reflect our current views about our plans, intentions, expectations, strategies, and prospects, which are based on the information currently available to us and on assumptions we have made. We can give no assurance that the plans, intentions, expectations, or strategies will be attained or achieved, and, furthermore, actual results may differ materially from those described in the forward-looking statements and will be affected by a variety of risks and factors that are beyond our control, including, without limitation, risks and uncertainties relating to the development of our technology and our ability to secure milestone payments and royalties; along with those risks set forth in our most recent periodic report filed with the U.S. Securities and Exchange Commission, as well as discussions of potential risks, uncertainties, and other important factors in our subsequent filings with the U.S. Securities and Exchange Commission. Except as required by law, we assume no obligation to update publicly any forward-looking statements, whether as a result of n

Market and Statistical Information

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other industry data. These data involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. We have not independently verified the data generated by independent parties and cannot guarantee their accuracy or completeness.

Absci innovates to create the impossible



- Integrated Drug Creation™ Platform built on Foundational Technologies
- Al-assisted *de novo* discovery & cell line development...in weeks or months
- Enabling new biologies and modalities, including nsAAs, and potential COGs savings

- \$254B 2020 sales in proteinbased therapeutics, expected growth to \$418B in 2026
- Next-gen biologics represent ~32% of protein-based biologics in Phase 1
- Differentiated business model: share in partners' successes with milestones & royalties
- 9 Active Programs* for preclinical or clinical molecules with potential for downstream economics

- ~200 people
- New 77,000 ft² campus
- July 2021 IPO; \$230M gross proceeds; Nasdaq: ABSI

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*As of June 30, 2021; Active Programs: programs in which we have negotiated, or expect to negotiate, license agreements for downstream milestones and royalties

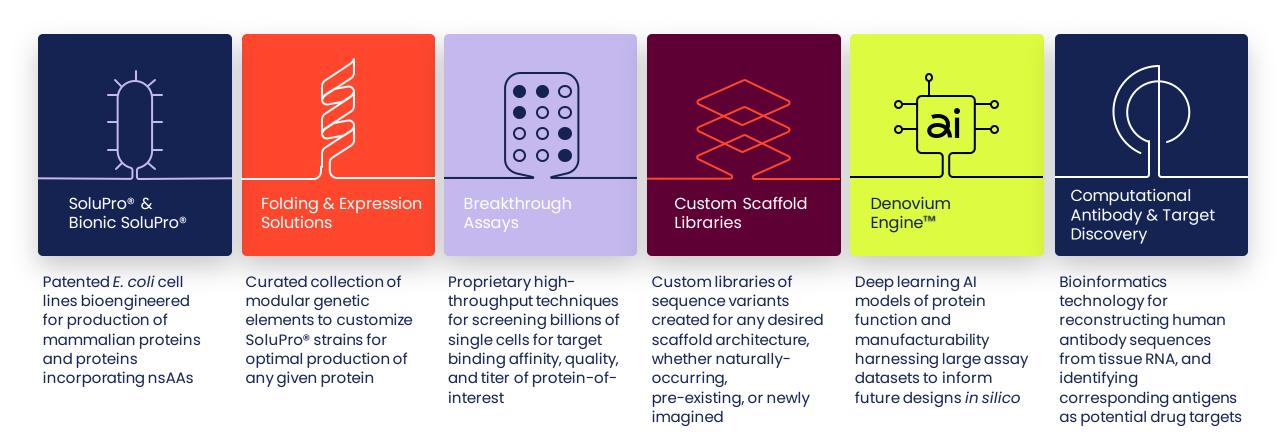
Corporate Presentation 3



Revolution...

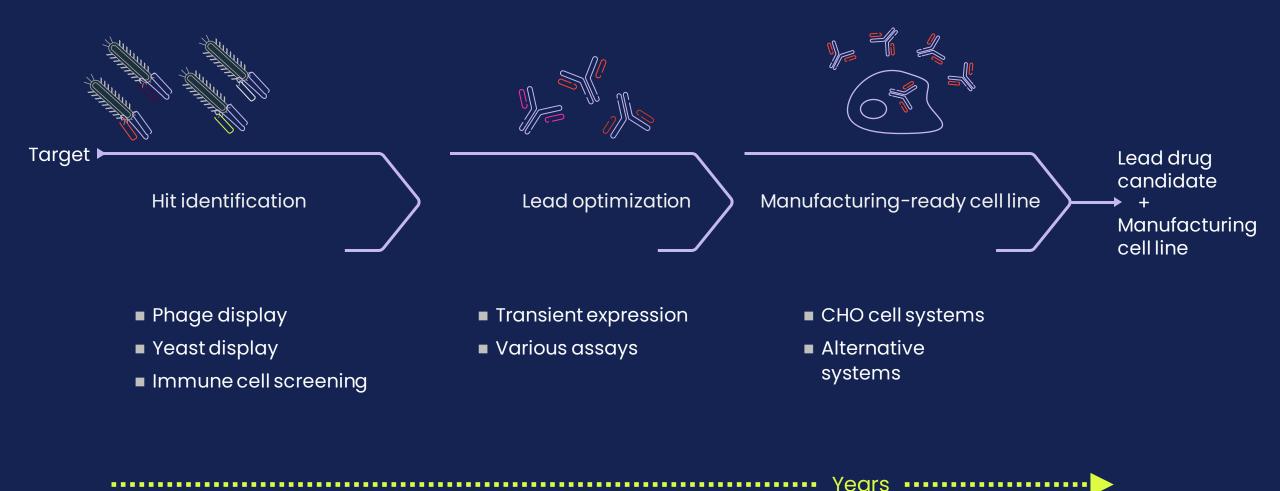
reimagining how biologic drugs are made Foundational Technologies

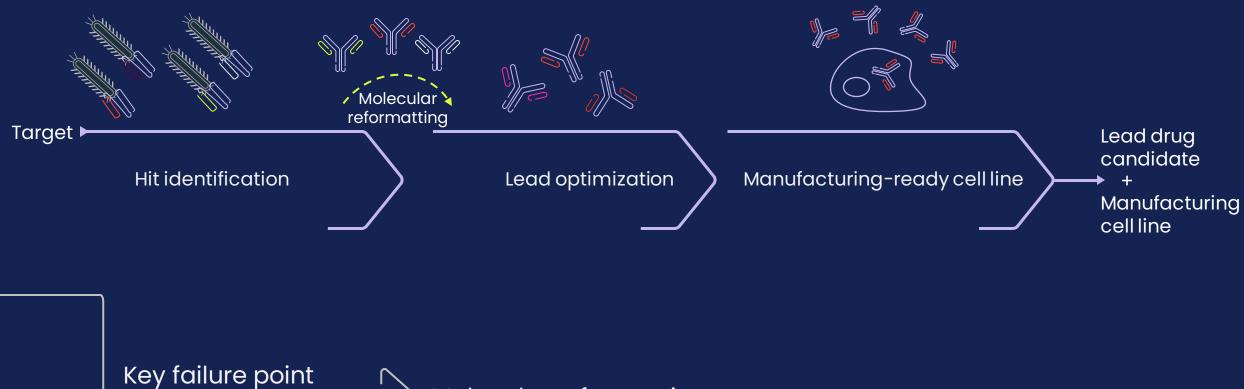
A better, faster path to new biologic drugs



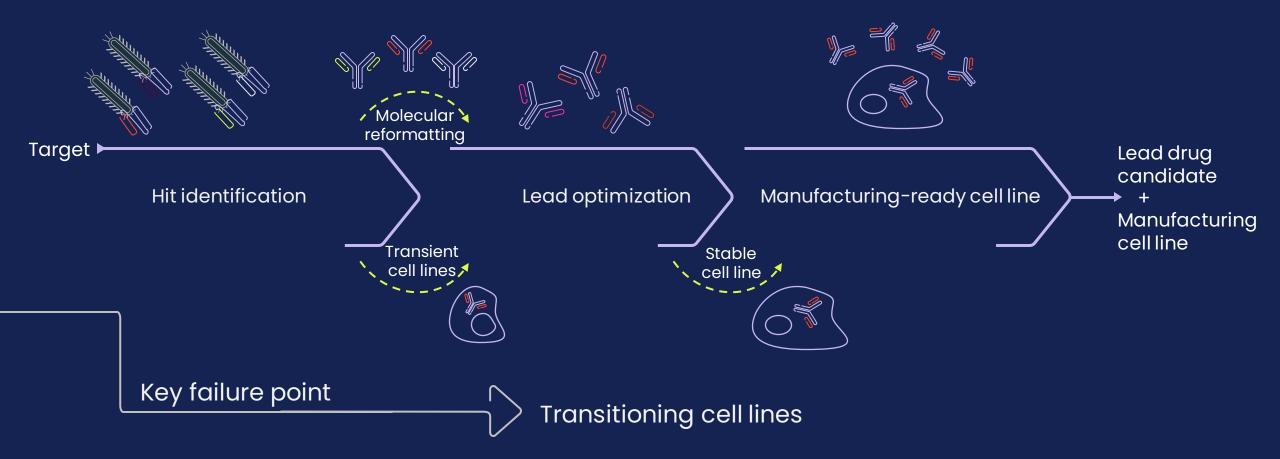
Better medicines

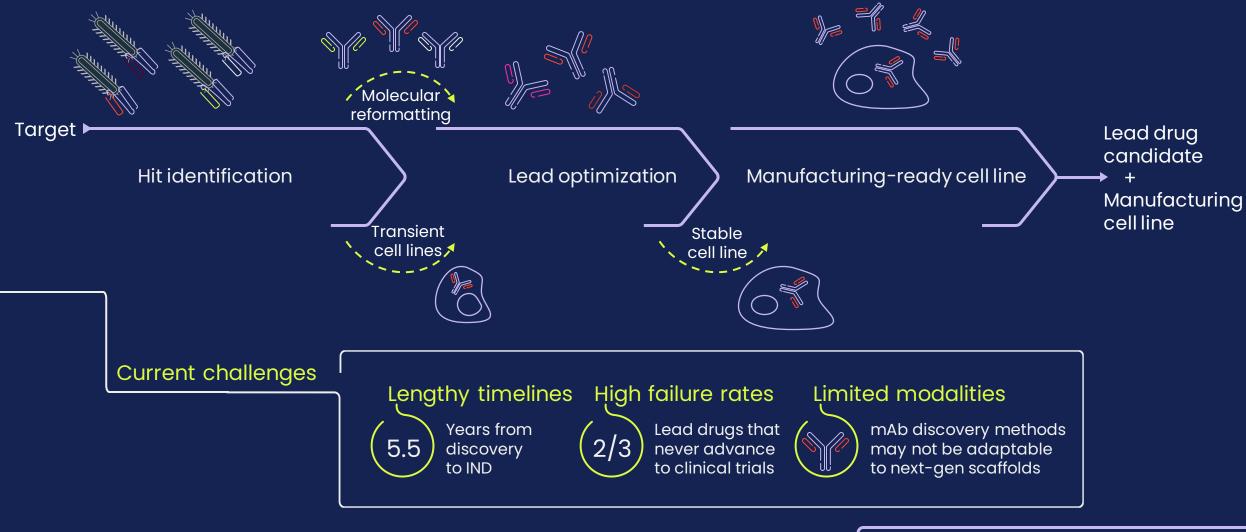
How?





Molecular reformatting

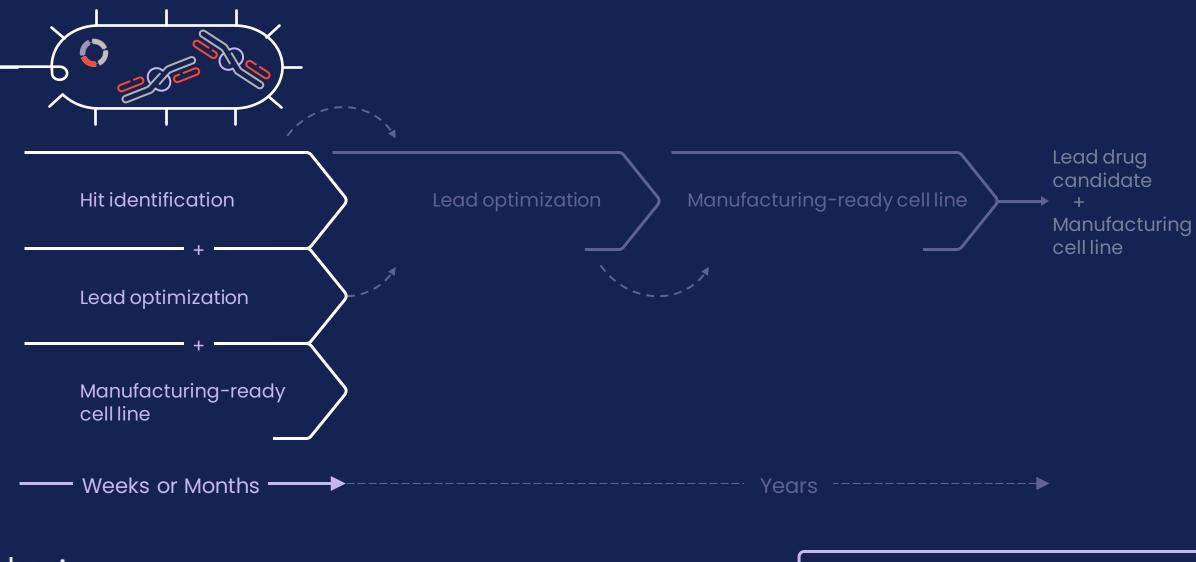




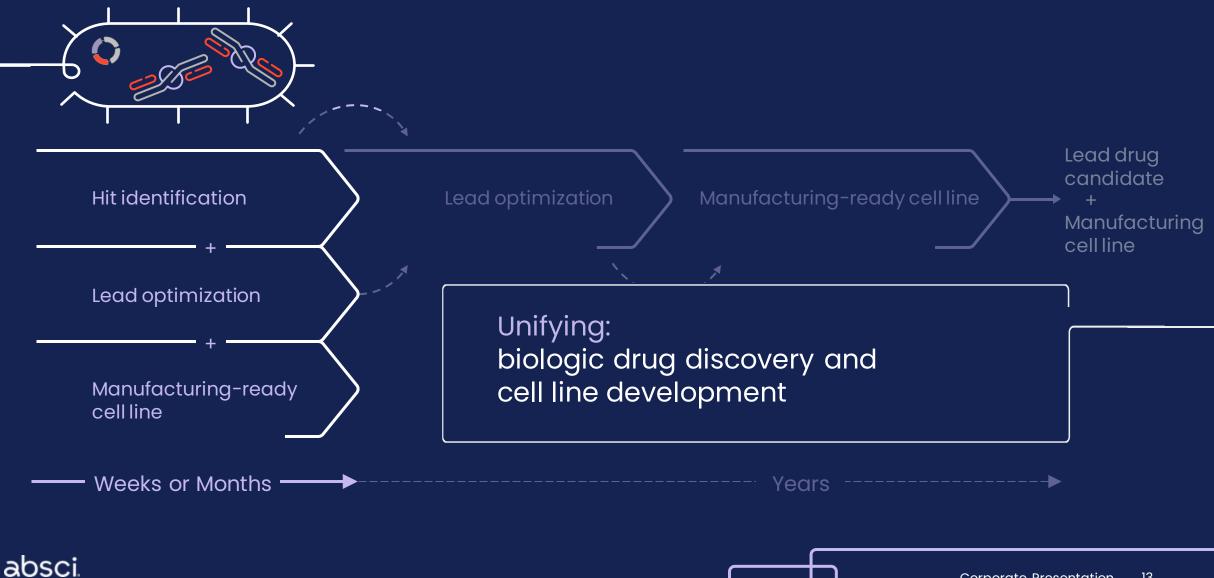
What if

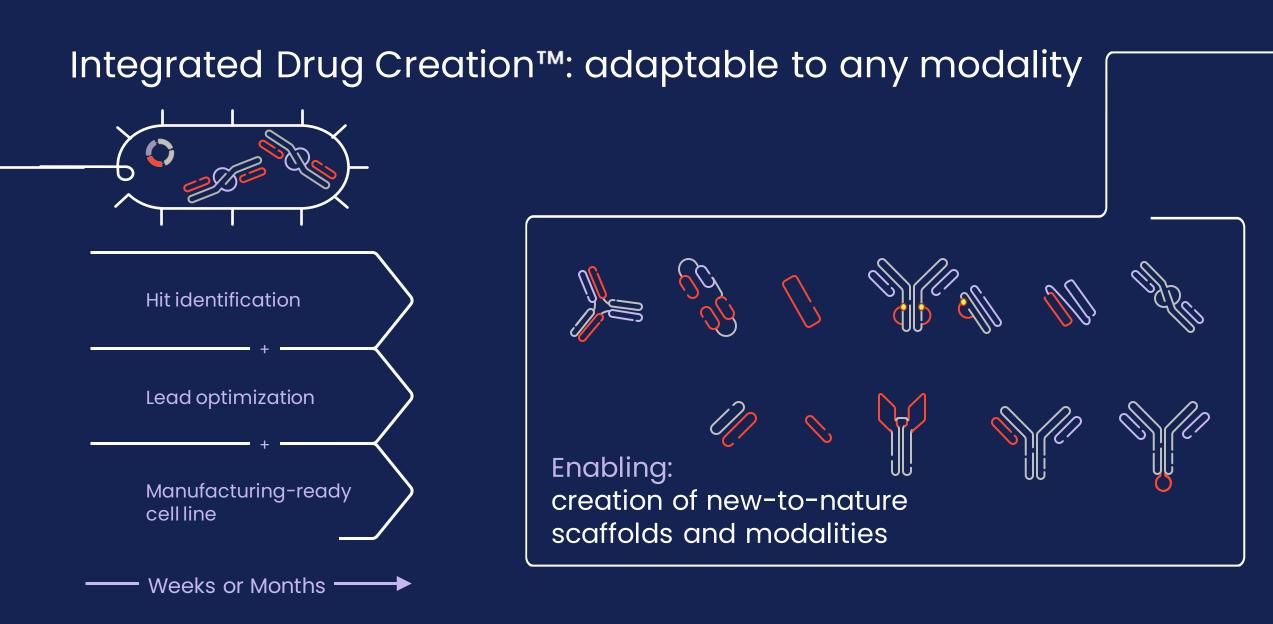
You could create any drug you can imagine?

Revolutionary new approach: Integrated Drug Creation™



Revolutionary new approach: Integrated Drug Creation™



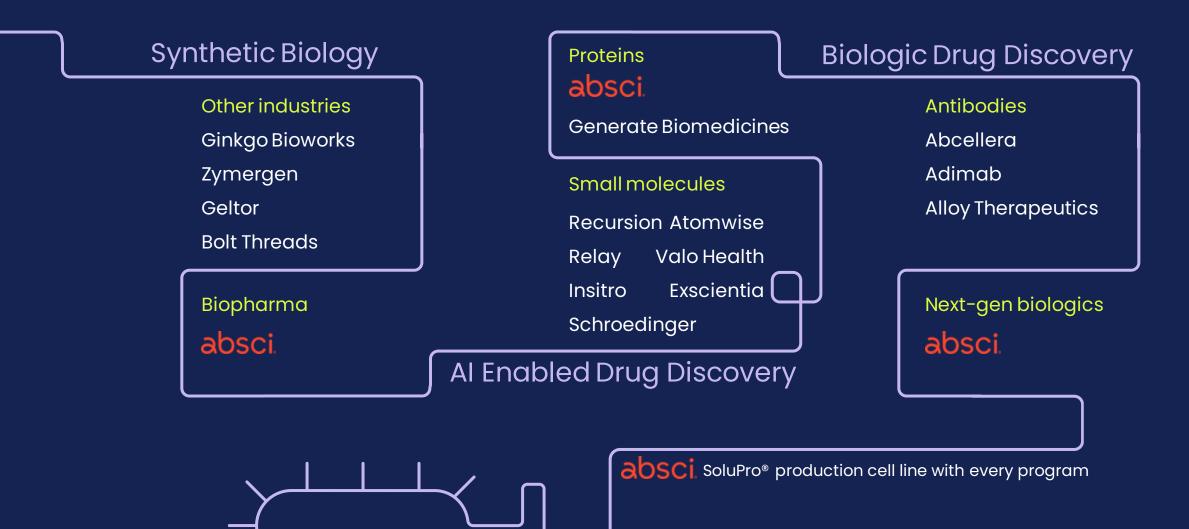


Merging technologies

AI + synthetic biology + biopharma

4°C Incuba

Differentiated platform across technology categories



The end-game

Protein-based drug discovery the way it should be

principal

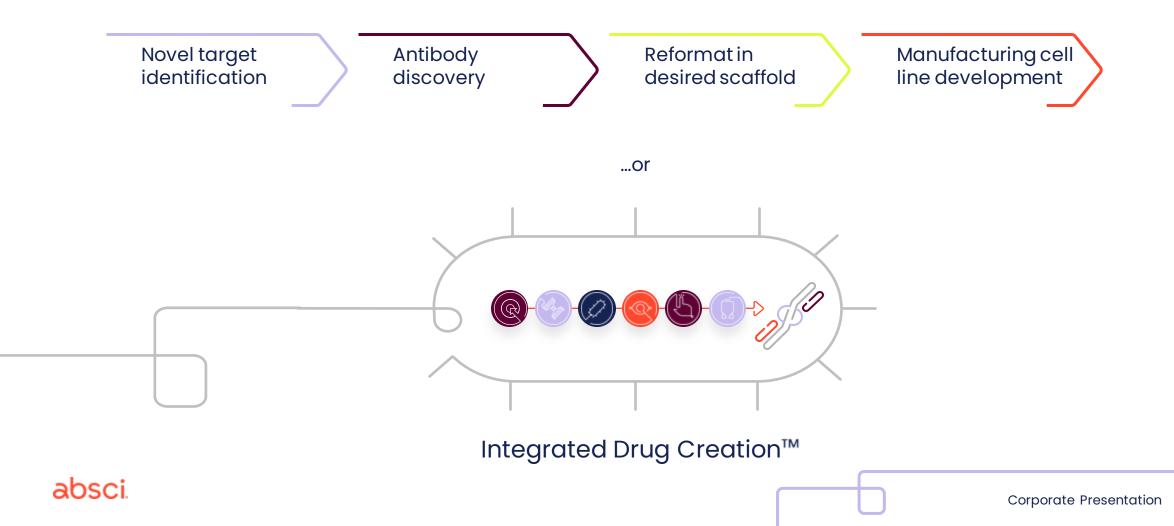
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Assembling technologies for next-gen drug discovery

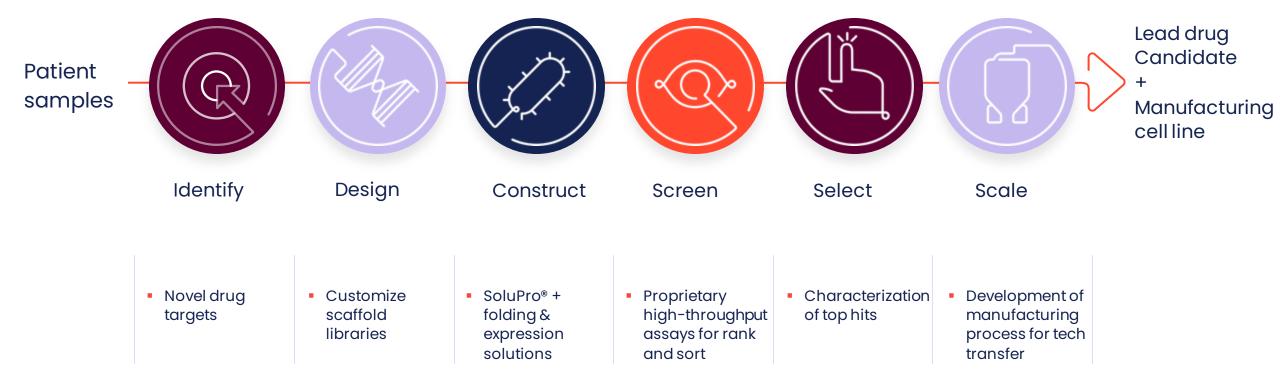


Integrated Drug Creation™ Platform – *designed* for next-gen drug discovery

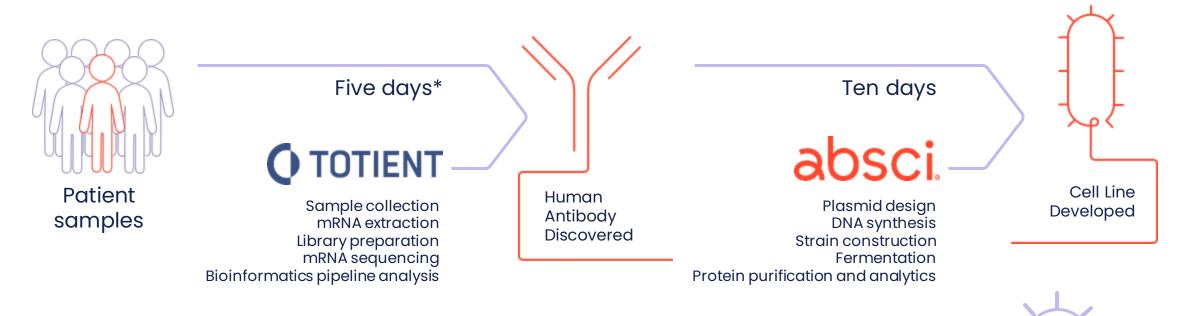


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Integrated Drug Creation[™] Platform



COVID-19 response: a case study in two parts



Pandemic response potential: Disease -> Drug + Cell Line in 15 days*

*Assumes industry standard sample handling and mRNA sequencing timelines Sources: Industry methods references and company data

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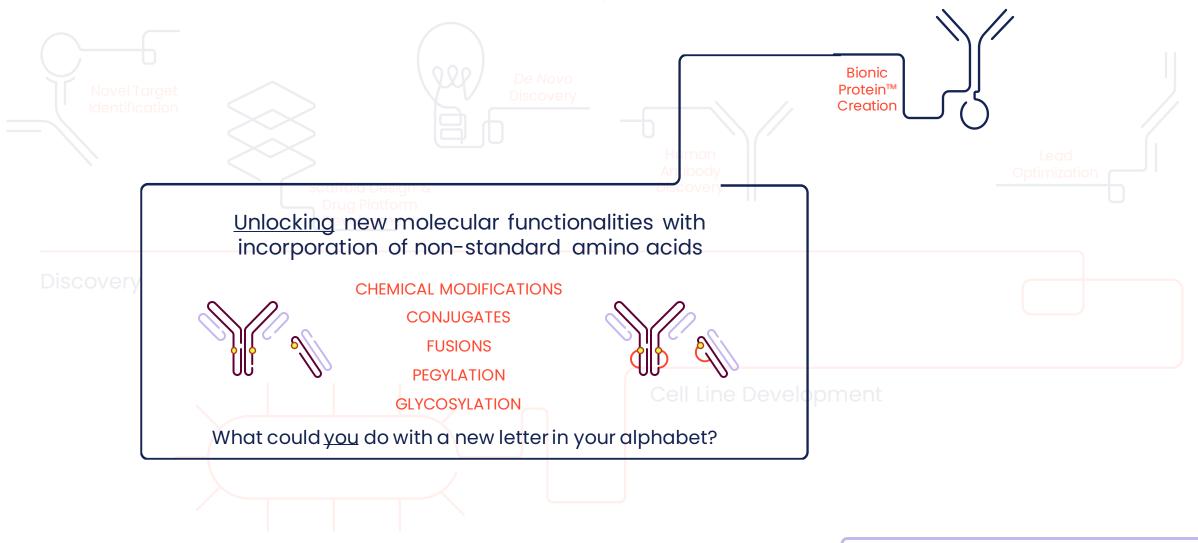
Drug +

Cell Line

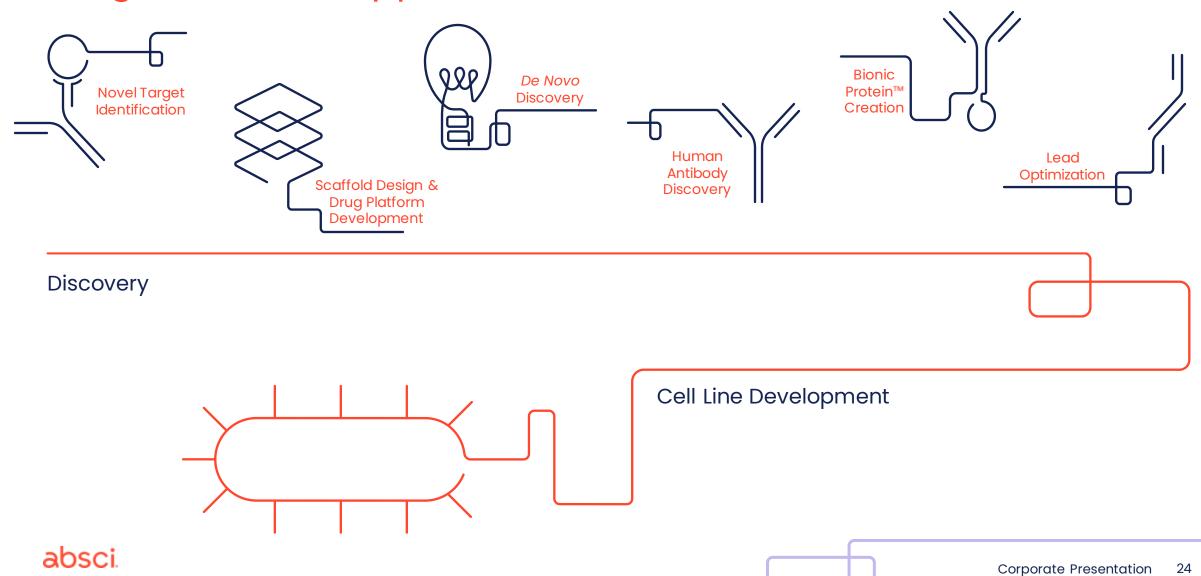
Drug Creation[™] Applications



Bionic Proteins[™] - out-evolving nature



Drug Creation[™] Applications

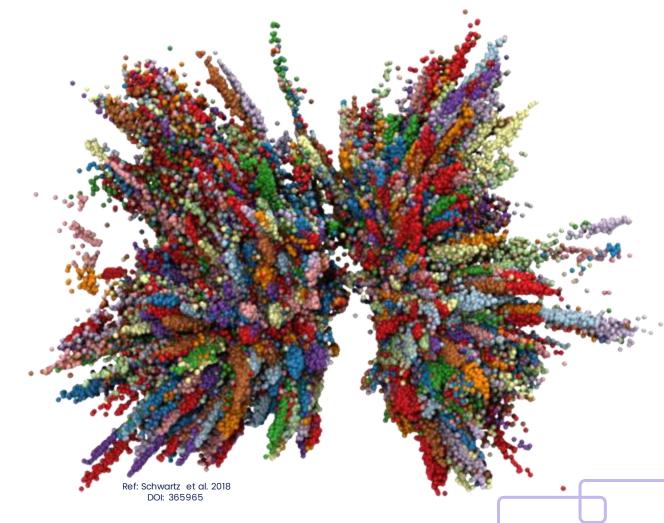


Out-evolving nature

In Silico Drug Creation™

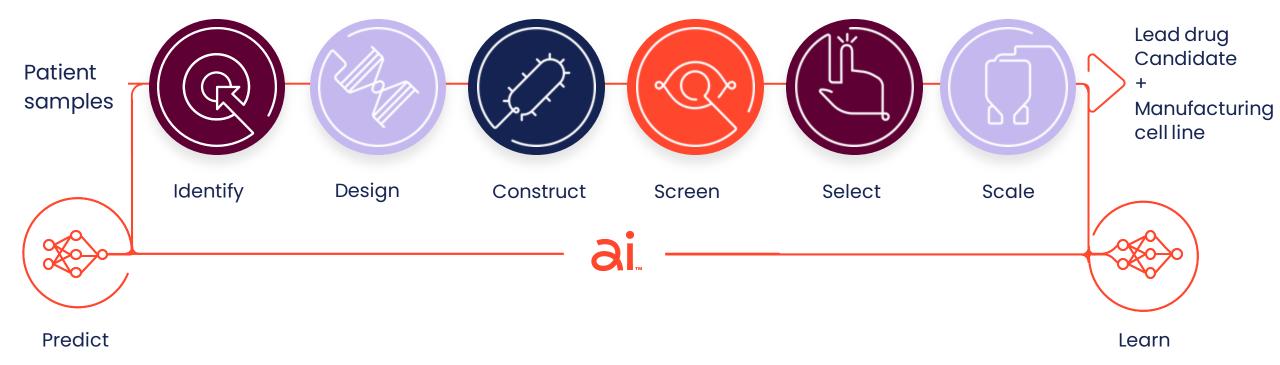
We aim to optimize complex solution space in silico - no screening required

With more theoretical protein sequence variants than predicted atoms in the observable universe, it is IMPOSSIBLE to screen all amino acid combinations

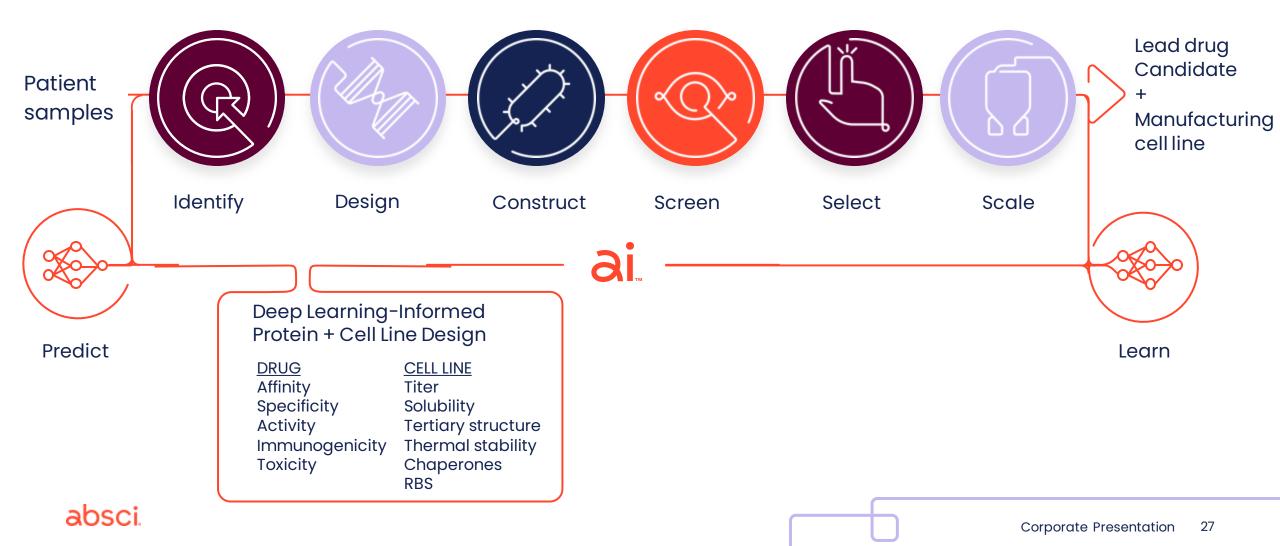


Absci-generated data feed Denovium Engine[™] models to allow us to predict relevant variation, enhance our Integrated Drug Creation[™] Platform, and may eventually enable *in silico* design

Integrated Drug Creation[™] Platform



Integrated Drug Creation[™] Platform



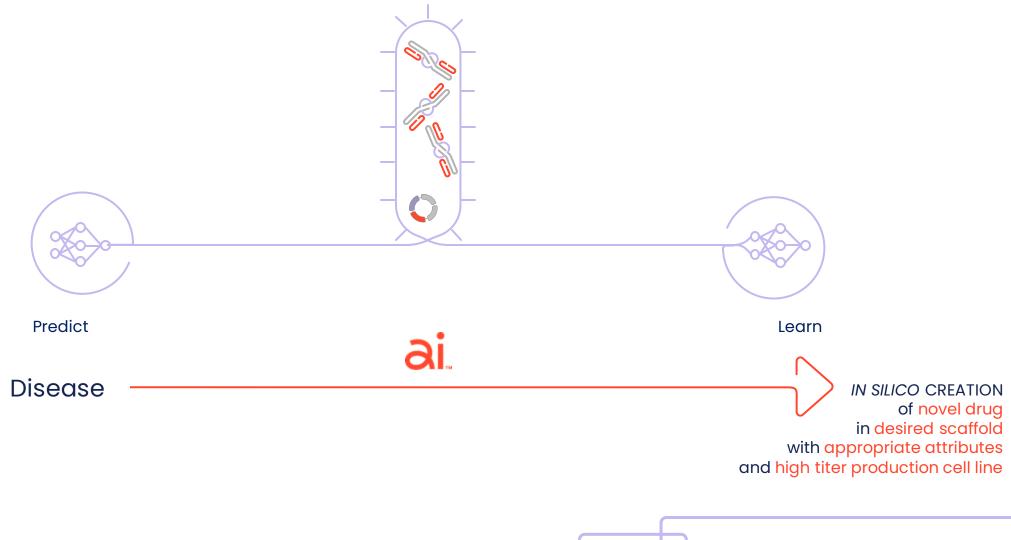
What if

we could design new drugs and cell lines with the click of a button?

Out-evolving nature

absci.

Fully in silico design



Unlimiting possibilities, broadening pipelines, driving efficiencies, out-evolving nature



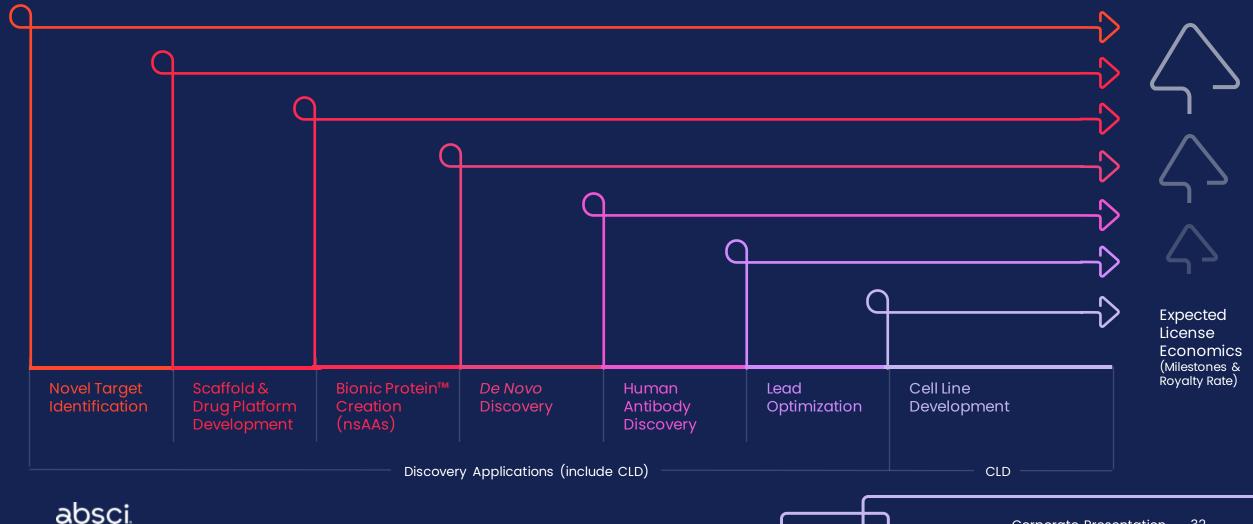
Economic opportunities from discovery through commercialization



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* Illustrative of Absci's general beliefs regarding the potential value of downstream clinical and commercial success of partnered programs; does not depict any underlying data

A flexible platform unlocking the promise of biologic opportunity for partners



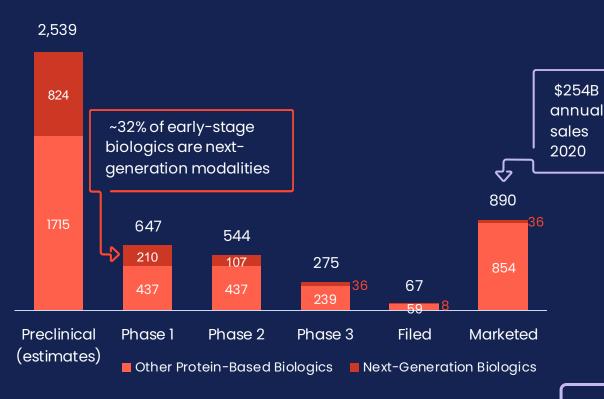
Corporate Presentation 32

The future of pharma is next-generation biologics

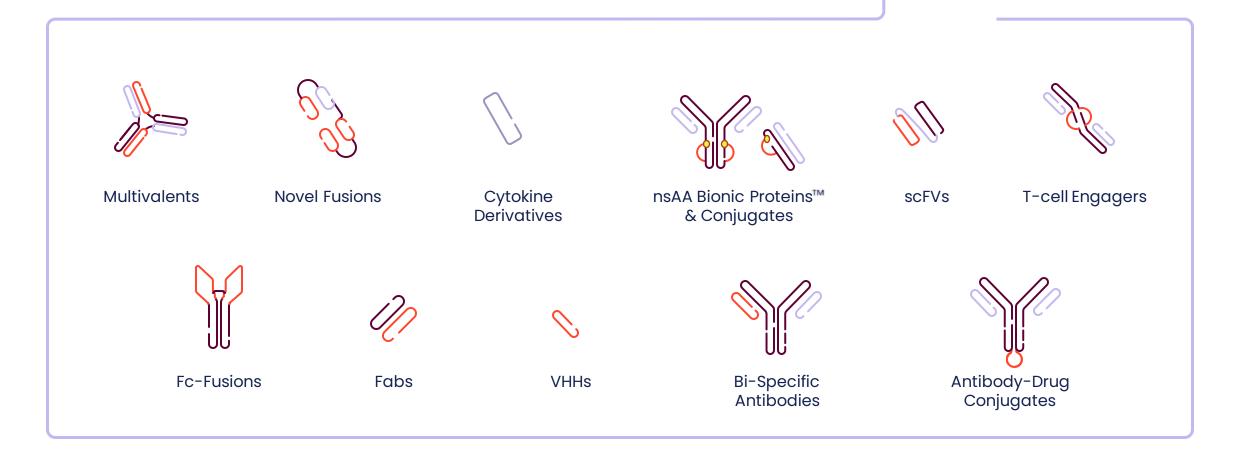
Significant challenges to discover and manufacture new modalities with conventional processes

of Protein-Based Biologics* by Development Stage in 2020

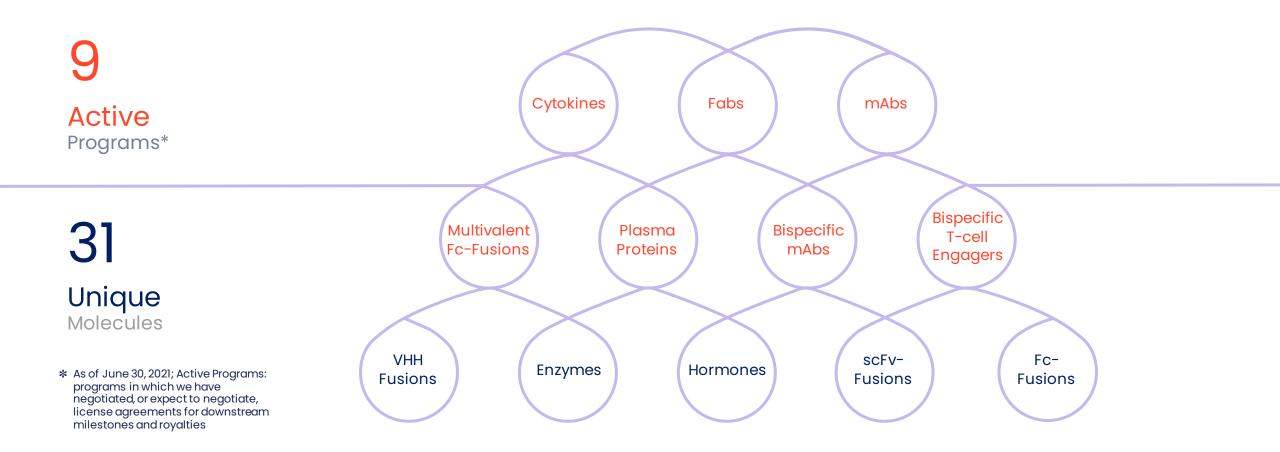
* Includes mAbs, mAb conjugates, recombinant products; excludes cell therapies, DNA & RNA therapies, gene therapies, plasmaderived therapies, and vaccines



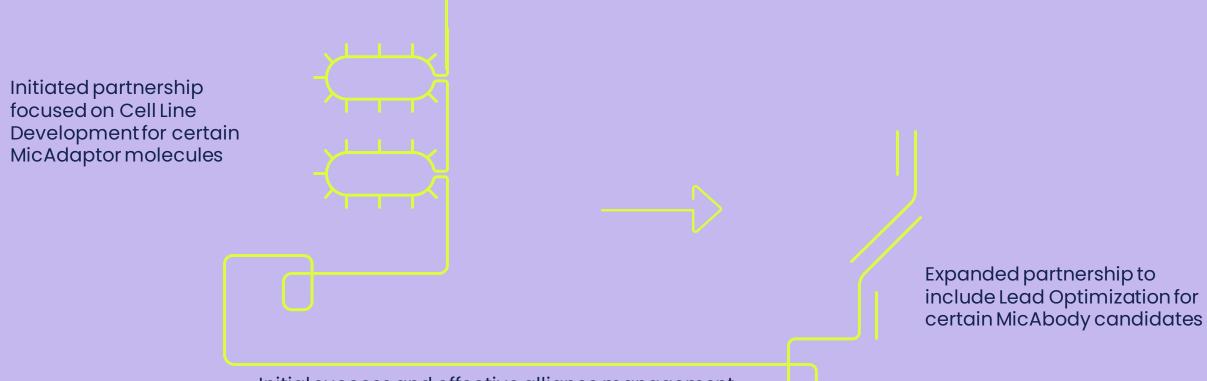
We take our partners' molecular concepts from *what if* to *what is*



Success with a diverse range of molecules



Evolution of a Partnership: Astellas Collaboration

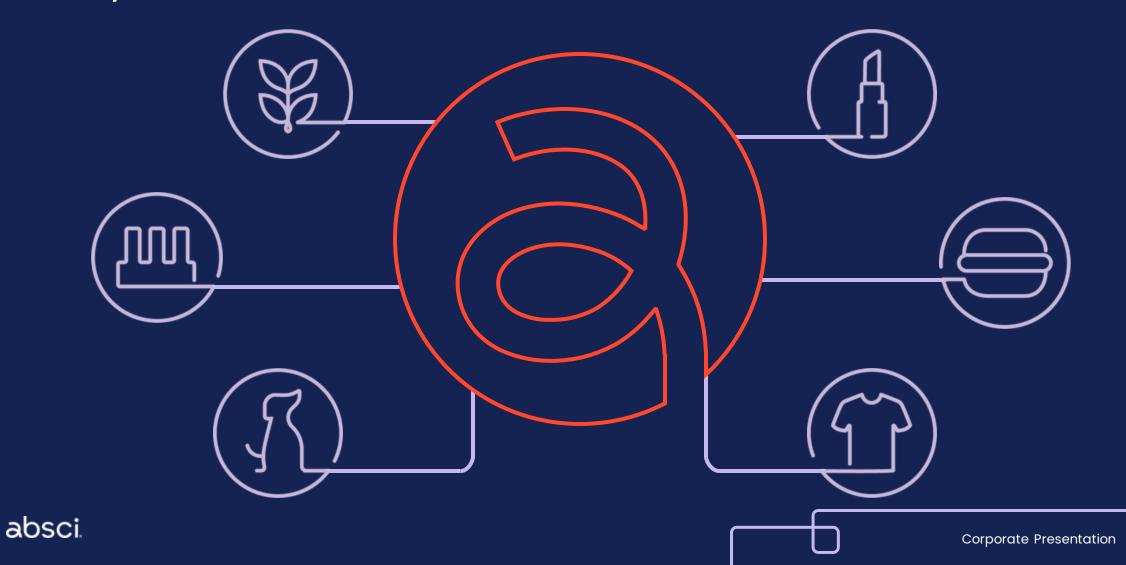


Initial success and effective alliance management

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Corporate Presentation 36

This is only the beginning-proteins are everywhere



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Anyone can talk about changing the world. We're actually doing it—breaking through nature's constraints to unlimit new opportunities for the biopharmaceutical industry.

What does that look like?

A team of unlimiters focused on creating the impossible



Sean McClain Founder and Chief Executive Officer Director



Matthew Weinstock, PhD Chief Technology Officer



Greg Schiffman, CPA Chief Financial Officer



Nikhil Goel, MS, MBA Chief Business Officer



Sarah Korman, PhD, JD General Counsel



Penelope Chief Morale Officer



Ivana Magovcevic-Liebisch, PhD, JD CEO & President, Vigil Neuroscience Board Chair



Eli Casdin CIO, Casdin Capital

Board of Directors



Zach Jonasson, PhD Managing Partner, PVP



Karen McGinnis, CPA CAO, Illumina



Amrit Nagpal Managing Director, Redmile Group

Just because something hasn't been done, doesn't mean it can't be done.

When we hear something is "impossible," we set out to find a way to make it real.

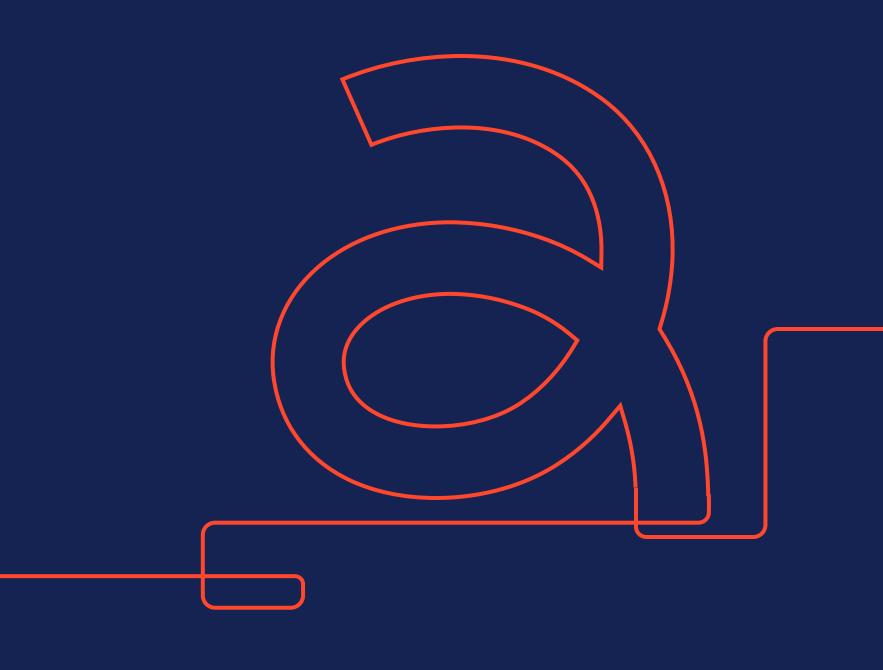
Translate ideo

to impact

Join us-

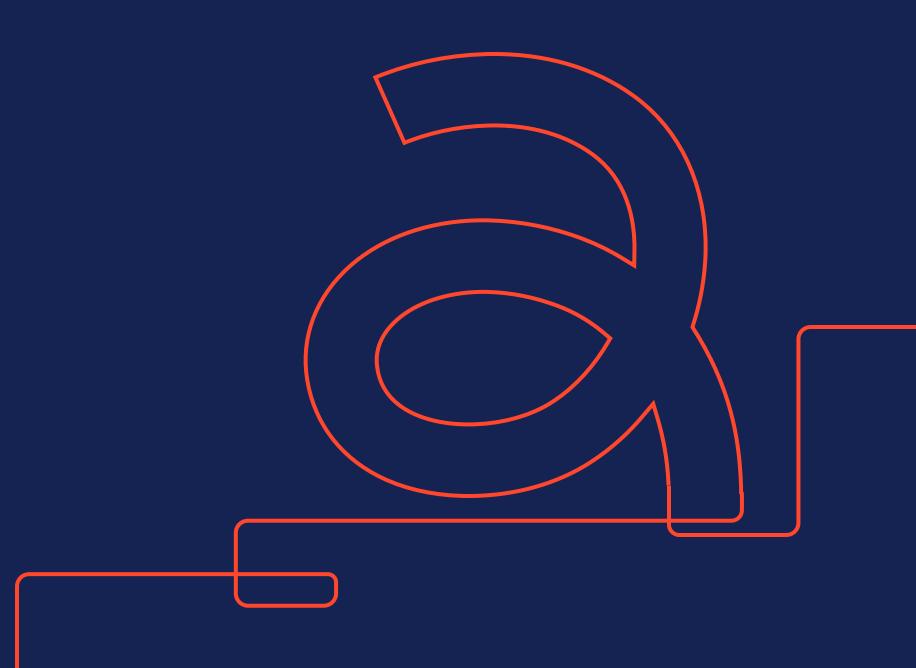


Thank you

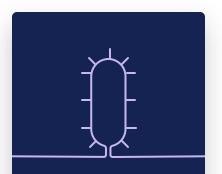




Appendix



SoluPro[®] & Bionic SoluPro[®] – *E. coli* strain designs



SoluPro[®] & Bionic SoluPro[®]

Patented *E. coli* cell lines bioengineered for production of mammalian proteins and proteins incorporating nsAAs

Semi-oxidized cytoplasm

Engineered redox environment to achieve scalable, soluble protein production

Precise expression control

SoluPro® achieves precise control over induction through genetic engineering of metabolic pathways and proprietary plasmid design

Bionic SoluPro® for nsAA incorporation

SoluPro[®] strain optimized for high-efficiency incorporation of non-natural amino acids

Custom Scaffold Libraries – design and construction



Custom libraries of sequence variants created for any desired scaffold architecture, whether naturallyoccurring, pre-existing, or newly imagined **Rationally defined diversity** Exquisite control over defined amino acid diversity at any region or position in the protein enables rational library design

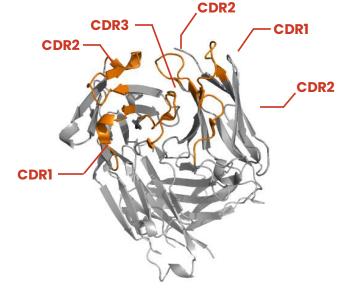
Random mutagenesis

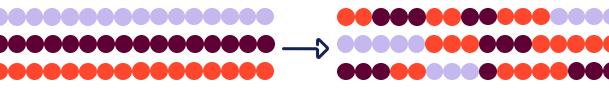
Multiple approaches enable random mutagenesis across the whole protein or isolated to defined regions/positions

Gene shuffling

Multiple related promising "hits" can be recombined to generate novel sequences with higher probability of improved traits



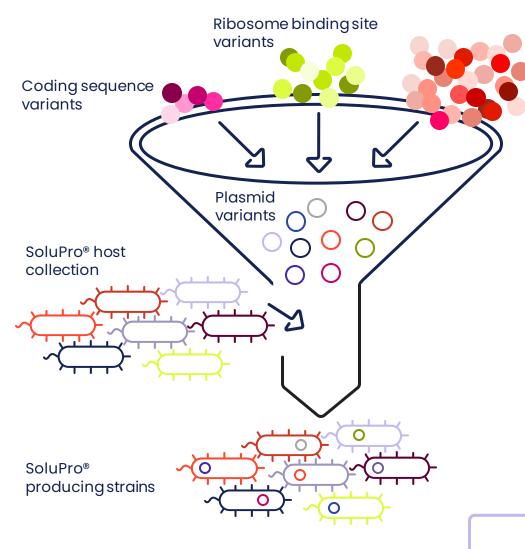




Folding & Expression Solutions – pooled library construction



Curated collection of modular genetic elements to customize SoluPro® strains for optimal production of any given protein



Proprietary chaperone collection

Expression plasmid libraries

Constructed from proprietary libraries of genetic elements including codonoptimized target-coding sequences (CDS), ribosome binding site sequences, and chaperones

Plasmids transformed into SoluPro® host

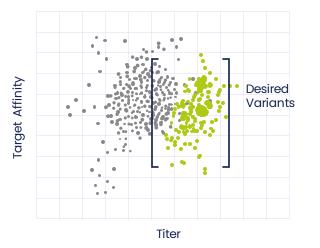
Additional diversity can be introduced by leveraging other host variants to screen for proteolysis and protein overexpression

Library diversities can exceed multiple millions of unique variants

Breakthrough Assays – high throughput singlecell screening techniques



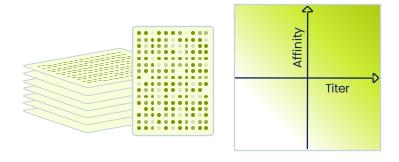
Proprietary highthroughput techniques for screening billions of single cells for target binding affinity, quality, and titer of protein-ofinterest **Antigen-specific Cell Enrichment Assay** (ACE Assay[™]): high-throughput single cell evaluation and sorting of diverse cell populations representing millions to billions of discrete genotypes



Upon sorting, high-titer strains expressing highaffinity proteins become a larger percentage of the strain population, and can be isolated as individual clones for further screening

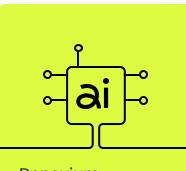
High-throughput Proximity Binding Assay

(HiPrBind Assay[™]): multiplexed plate screening of clonal strains for quantitative evaluation of expressed protein titer and target affinity



HiPrBind Assay[™] discriminates titer and affinity based on signal concentration and amplitude

Denovium Engine™: deep learning protein model designed for functional output



Denovium Engine™

Deep learning Al models of protein function and manufacturability harnessing large assay datasets to inform future designs *in silico*

Trained on >100M proteins and >700,000 functional labels

Protein sequence

>Cytochrome p450 CYP199A2

MTTAPSLVPVTTPSQHGAGVP HLG IDPFALD YFAD PY PEQETLREA GPV VYL DKWN VYG VARY AEVY AVLNDPLTFC SS RG VGLS DFK KE KP WRPPSLILEADPPAHTRT RA VLS KVL SPATM KRLR DGFA AAA DA KI DELLA RGG NI DA IA DLAEA YPLS VFPD AMGL KQEG RENLL PYA GLVFNA FGPPNELRQSAIERSAPH QAY VAEQC QRPNL APG GFGACI HAFS DTGE ITPEEAPLL VRSLLS AGL DTTVN GIA AAV YCLA RFP DEFARL RA DP SLARNAFEEAVRFESPVQTFFRTTTRD VELAGAT IGEGE KVLMFLG SANR DP RR WD DP DRY DIT RKT SG HVGFG SG VHMC VGQL VA RLEGE VVLAALARKVAAIEIAGPL KRRF NNTL RGLESL PIQLT PA

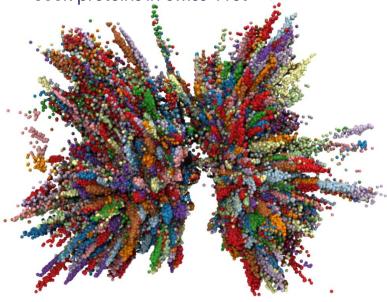
-1

High-dimensional embedding



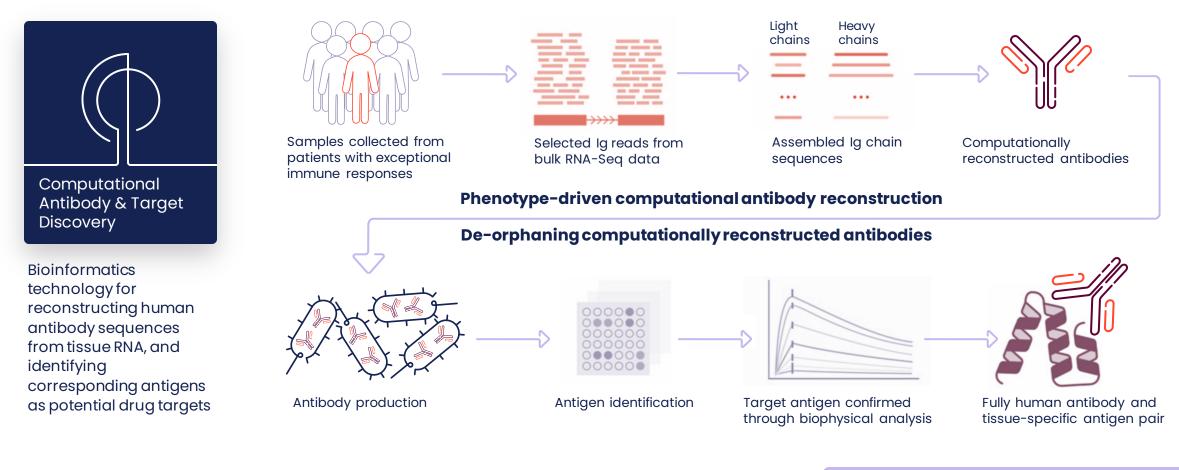
- - Structural information
 - Activity
 - Transmembrane regions
 - Binding affinity
 - Expressibility
 - Stability
 - Solubility
 - And much more....

Functional embedding clustering of >500K proteins in Swiss-Prot

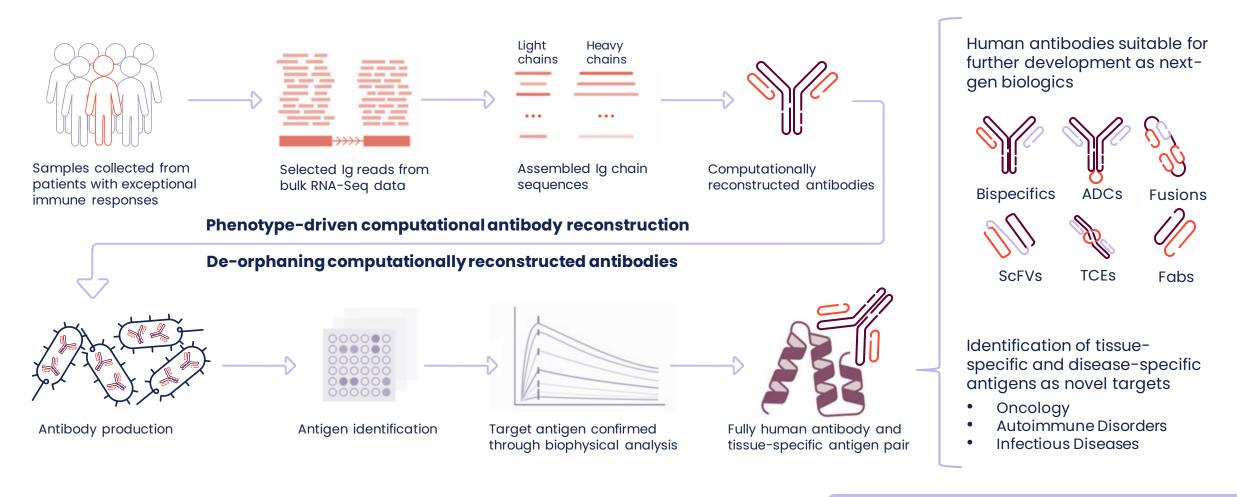


Ref: Schwartz *et al.* 2018 DOI: 365965

Computational Antibody & Target Discovery – from sample to target identification

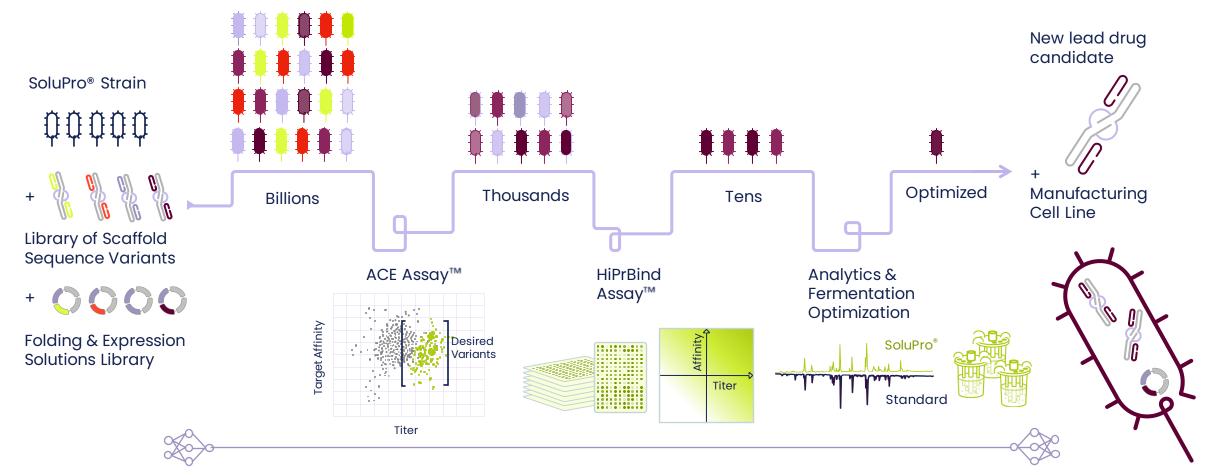


Computational Antibody & Target Discovery



From target to lead drug candidate in a desired scaffold

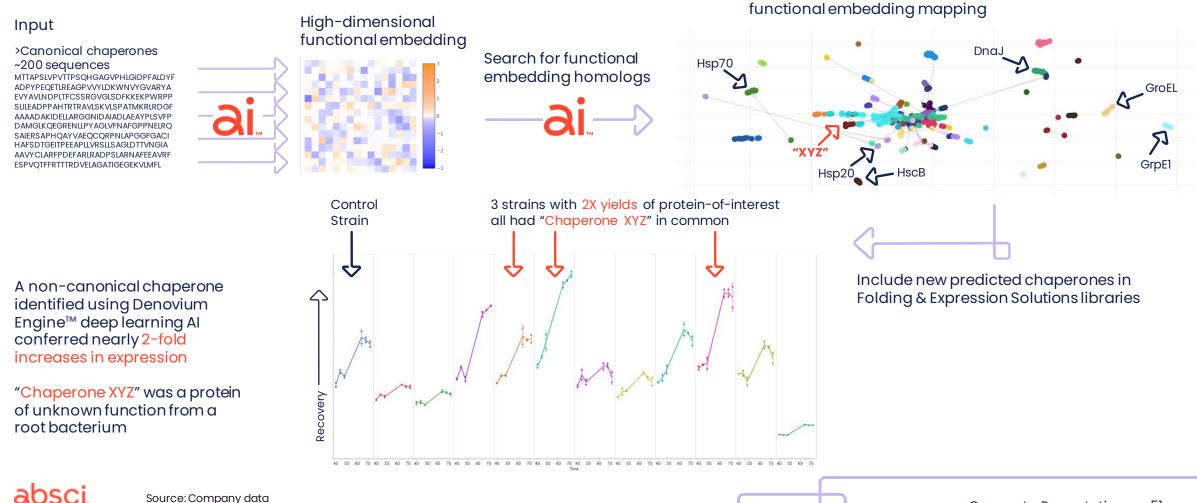
Simultaneous drug discovery & cell line development



Why wouldn't you include "manufacturability" in lead candidate selection?

Out-evolving nature

Identification of novel chaperones: Denovium Engine[™] case study



Identification of >1,000 predicted chaperones by