Creating. drugsat the speed of Al.



from absci import de_novo_model
model = de_novo_model.load_latest()
antigen = model.load_pdb("7olz.pdb",
chain="A")
antibodies = model.predict(antigen, N=300000)

from absci_library import codon_optimizer
library
= codon_optimizer.reverse_translate(library)
library.to_csv("covid-antibody-designs.csv")
library.to_wet_lab(assay="ACE")

from absci import lead_opt_model
lead_optimizer = lead_opt_model.load_latest()
library.naturalness =
lead_optimizer.naturalness(library)
lead_optimizer.optimize(library).to_wet_lab(as
say="SPR")



41ST ANNUAL J.P. MORGAN HEALTHCARE CONFERENCE 2005: 20 approved, 11.2% of drugs entering clinical trials approved 2006: 22 approved, 11.2% 2007: 18 approved, 10.7% 2008: 24 approved, 9.2% 2009: 26 approved, 7.8% 2010: 21 approved, 6.8% 2011: 35 approved, 6.1% 2012: 39 approved, 5.3% 2013: 27 approved, 5.2% 2014: 41 approved, 6.7% 2015: 45 approved, 13.8%

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," "predicts," advancing," "aim," and "intends," or similar expressions. We intend these forward-looking statements, including statements regarding our strategy, financial performance and results of operations, including our expectations and guidance regarding cash, cash equivalents and restricted cash, our projected cash usage, needs and runway, future operations, future financial position, future revenue, internal research and technological development activities, advancements toward in silico drug design, research and technology development collaboration efforts, 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, 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, our ability to secure milestone payments and royalties, and our ability to effectively collaborate on research, drug discovery and development activities with our partners or potential partners; along with those risks set forth in our most recent periodic report filed with the U.S. Securities and Exchange Commission. Exce

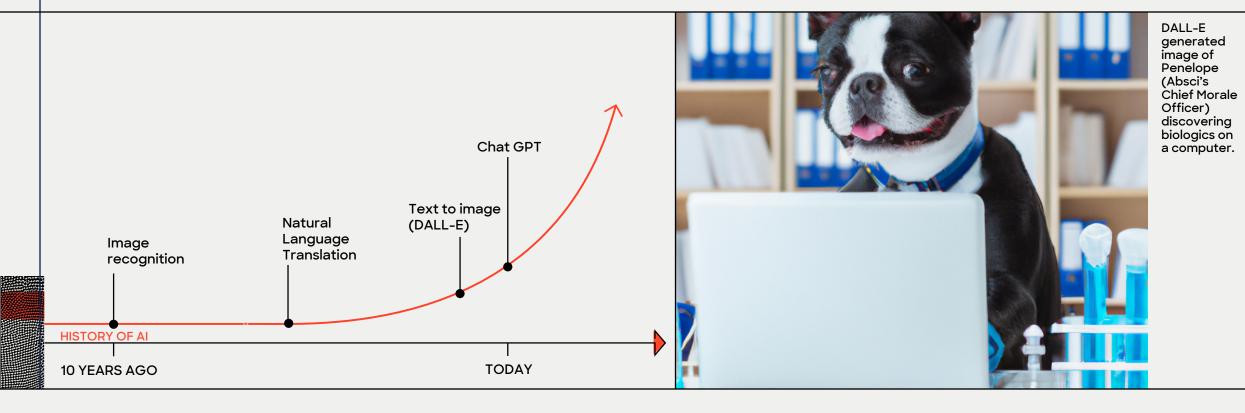
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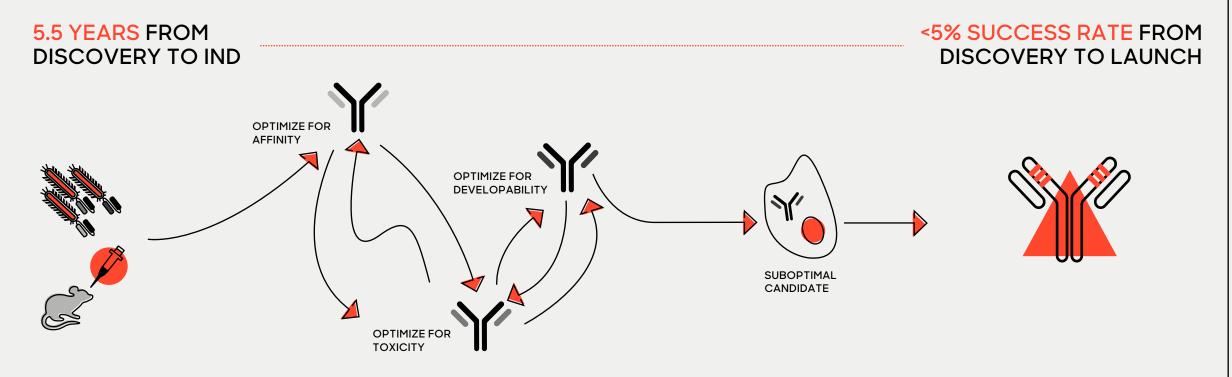
What if the next transformative drug was not discovered but created with a click of a button?





The Problem–The Need For Generative AI

The old drug discovery paradigm is ripe for disruption

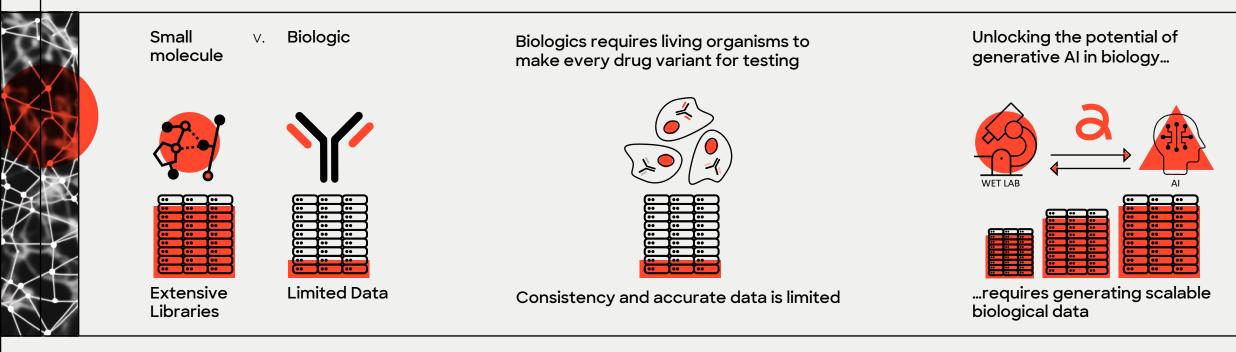


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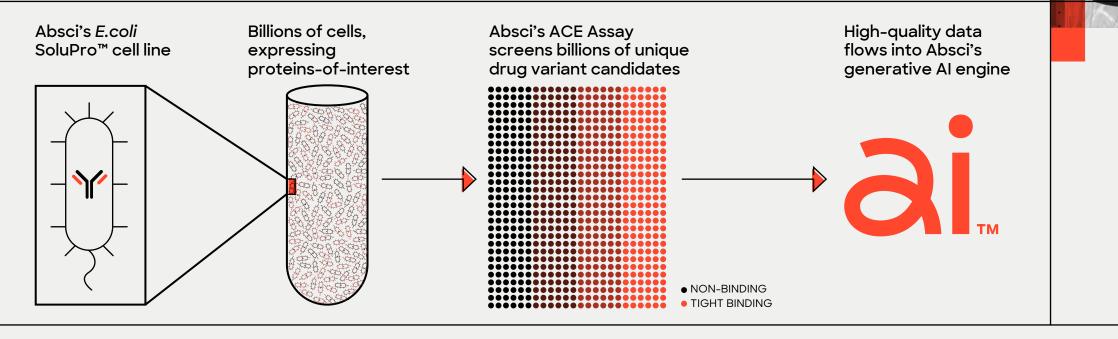
Long iterative process creating drug candidates with suboptimal attributes

Why Hasn't Generative AI Transformed Biologic Drug Discovery?

Unlocking the potential of generative AI in biology require scalable biological data



Absci is solving the problem of scalable biological data enabling true generative AI for biologics drug discovery



The Solution

At Absci, the future is now with our Integrated Drug Creation™ platform

DATA TO TRAIN

Proprietary wet-lab assays capable of generating billions of protein-protein interactions a week for ML training

WET LAB TO VALIDATE

Scalable wet-lab infrastructure capable of validating 2.8 million unique Al-generated designs a week



AI TO CREATE

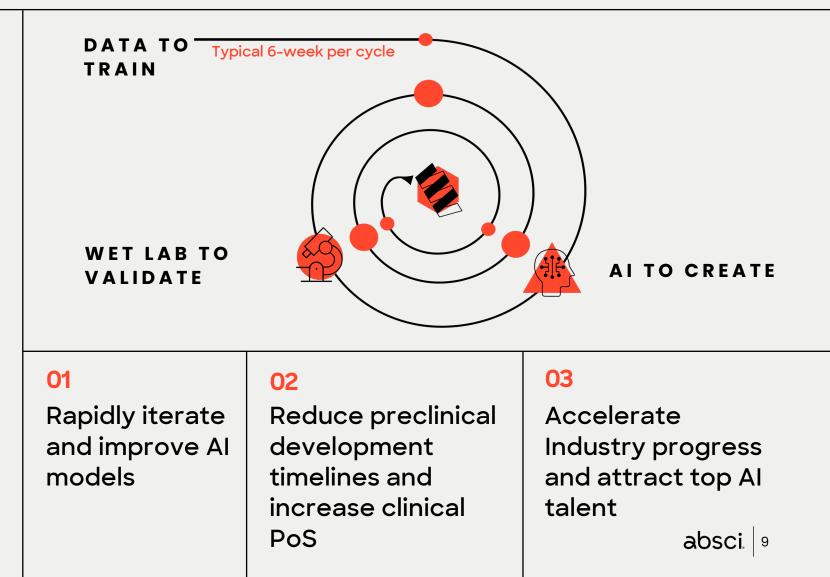
Generative AI engine to create new antibodies and next-gen biologics Absci is the Leader in Generative AI Drug Creation for Biologics

Cycles completed within weeks



Absci's rapid cycle times aims to:

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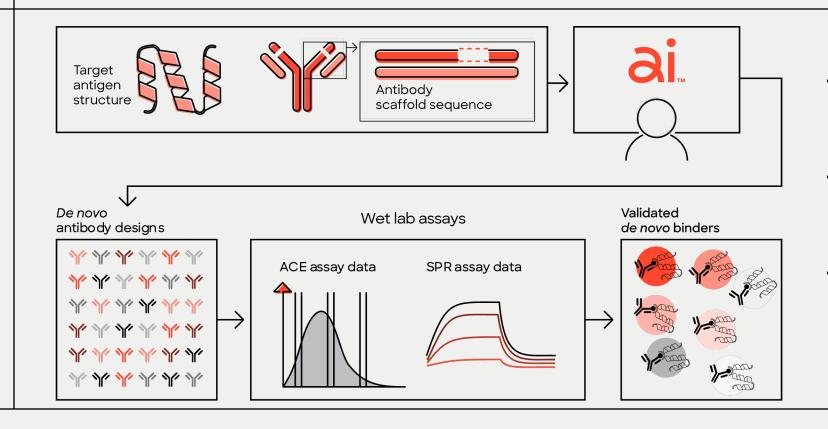




Absci is the first to design and validate new antibodies with zero-sht generative Al

Breakthrough in de novo Drug Creation

De novo drug creation with 'zeroshot' generative Al



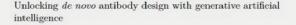
- Zero-Shot: Model has never seen an antibody that binds to the target or homologs
- Binders were identified straight
 out of the model no lead
 optimization was performed

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 Demonstrated across four therapeutic targets: HER2, VEGF-A, COVID omicron, undisclosed target

Case Study: de novo Discovery in silico

Unlocking *de novo* antibody design with generative AI

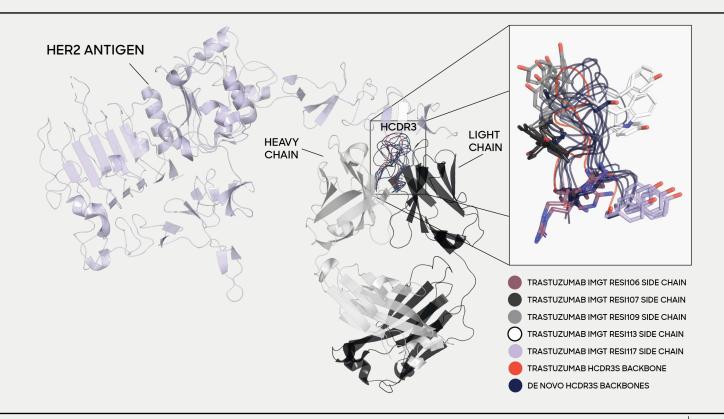


Amir Shanehsazzadeh^{*}, Sharrol Bachas^{*}, George Kasun, John M. Sutton, Andrea K. Steiger, Richard Shuai, Christa Kohnert, Alex Morehead, Amber Brown, Chelsea Chung, Breanna Luton, Nicolas Diaz, Matt McParthon, Balley Knight, Macey Radach, Katherine Bateman, David A. Spencer, Jovan Cejovic, Gaelin Kopec-Belliveau, Robel Haile, Edriss Yassine, Cailen McCloskey, Monica Natividad, Dalton Chapman, Luka Stojanovic, Rodante Caguiat, Shaheed Abdulhaoq, Zheyuan Guo, Katherine Moran, Lillian R. Klug, Miles Gander, Joshua Meier²⁰

Absci Corporation, New York (NY) and Vancouver (WA), USA

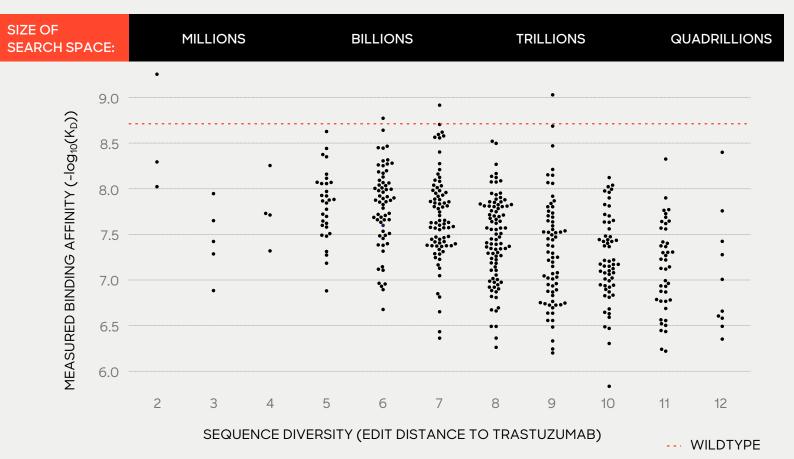
Abstract

Generative artificial intelligence (AI) has the potential to greatly increase the speed, quality and controllability of antibody design. Traditional de novo antibody discovery requires time and resource intensive screening of large immune or synthetic libraries. These methods also offer little control over the output sequences, which can result in lead candidates with sub-optimal binding and poor developability attributes. Several groups have introduced models for generative antibody design with promising in silico evidence [1-10], however, no such method has demonstrated de novo antibody design with experimental validation. Here we use generative deep learning models to de novo design antibodies against three distinct targets in a zero-shot fashion where all designs are the result of a single round of model generations with no follow-up optimization. In particular, we screen over 400,000 antibody variants designed for binding to human epidermal growth factor receptor 2 (HER2) [11] using our high-throughput wet lab capabilities. From these screens, we further characterize 421 binders biophysically using surface plasmon resonance (SPR), finding three that bind tighter than the therapeutic antibody trastuzumab [12]. The binders are highly diverse and have low sequence identity to known antibodies. Additionally, these binders score highly on our previously introduced Naturalness metric [13], indicating that they are likely to possess desirable developability profiles and low immunogenecity. We open source the binders to HER2 and report the measured binding affinities. These results unlock a path to accelerated drug creation for novel therapeutic targets using generative AI combined with high throughput experimentation.



Case Study: de novo Discovery in silico

AI Model generated highly diverse and effective binders from massive search space



AI-Designed & Wet Lab Validated HER2 Binders

- Hundreds of binders created
- Ability to generate binders near to and far from trastuzumab
- Binding affinity maintained even when mutating >90% of the CDR3 region
- All binders to HER2 and HER2 homologs removed from the training dataset

Case Study: de novo Discovery in silico

Al model is broadly applicable enabling higher potential therapeutics

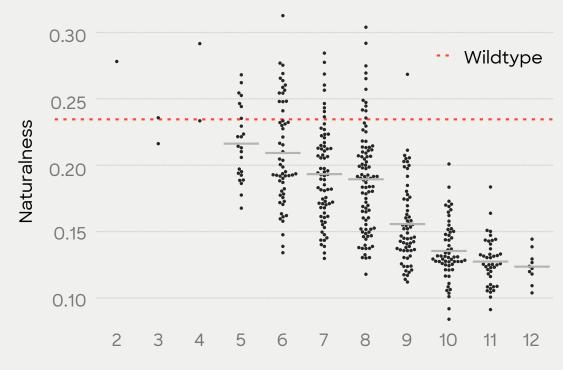
Better therapeutics, faster

- Successfully designed antibody variants with higher Naturalness score
- The Naturalness score is associated with developability metrics such as immunogenicity

Model is validated and broadly applicable

 Successfully demonstrated across four therapeutic targets: HER2, VEGF-A, COVID omicron, undisclosed target

Rapid progress towards fully *in sili*co drug creation



Sequence Diversity (edit distance)

Value Creation for Patients and Partners- TODAY

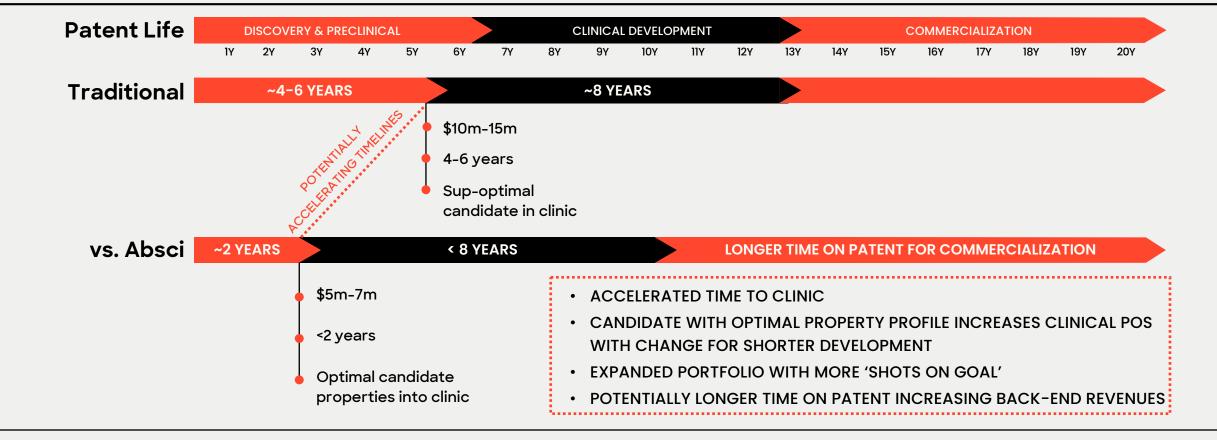
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Unlocking new and differentiated value drivers

Higher <mark>Potential</mark> Biologics with Increased PoS	Reducing Time & Increasing Competitiveness	Increasing Options for Personalized Medicine	Broadening Intellectual Property Space
Multidimensional optimization in parallel creates higher quality biologics with an increased Probability of Success	Drug creation process is significantly shortened, reducing research costs and increasing competitiveness	Specific Epitope targeting increases options for personalized medicine	Al-driven drug creation generates valuable Intellectual Property
Affinity Naturalness Selectivity Immunogenicity			
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Better Biologics Faster

Accelerating time to clinic while increasing PoS



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Partnerships

Technology validated through industry-leading partnerships



BioSpace **"Merck leans into AI with \$610M in biobucks for Absci drug discovery pact"**

"At Merck we are continually evaluating new ways to build, expand, and refine our biologics capabilities. Absci's platform offers a compelling opportunity to design new biologic candidates and explore the expression of complex proteins."*

Dr. Fiona Marshall

Former SVP, Head of Discovery, Preclinical and Translational Medicine

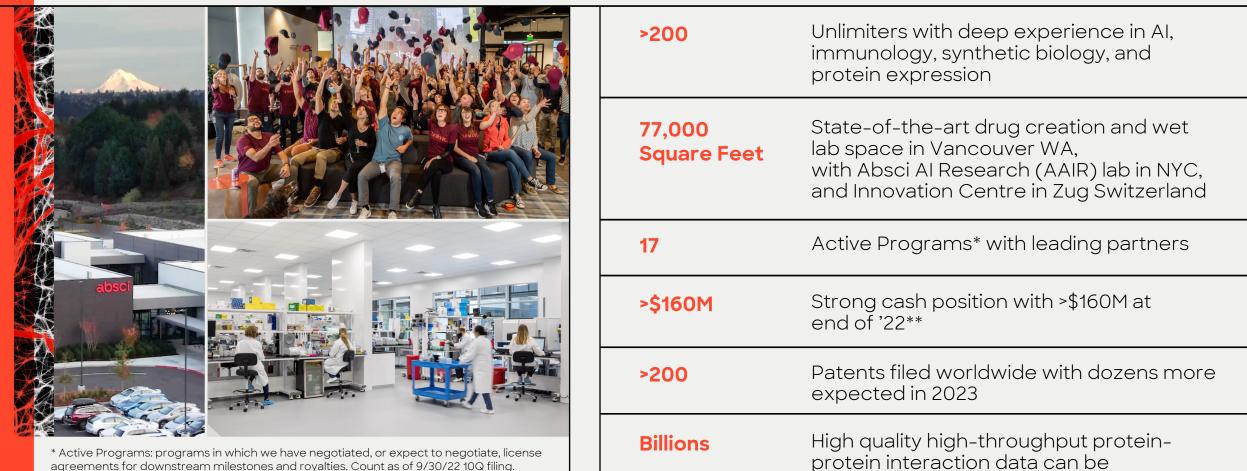
EQRx

"EQRx and Absci Announce Partnership to Discover and Develop Next-Generation Protein-Based Drugs"

"Absci's technology platform enables rapid discovery and production of well-differentiated protein-based drugs that are elusive to other discovery approaches. We are excited to work with Absci..."

Dr. Carlos Garcia-Echeverria Chief of Rx Creation

Well positioned to revolutionize Al drug creation



generated a week

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**Unaudited Cash and cash equivalents and short-term investments

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Trailblazing Management Team

The right leadership team to accomplish the Impossible

Executive Leadership



SEAN MCCLAIN AN Founder & CEO Director Chi

ANDREAS BUSCH, PHD Chief Innovation Officer

GREG SCHIFFMAN, CPA

AN, CPA SARAH KORMAN, PHD, JD DENISE DETTORE ficer Chief Legal Officer Chief People Officer

RE JACK GOLD cer Chief Marketing Officer



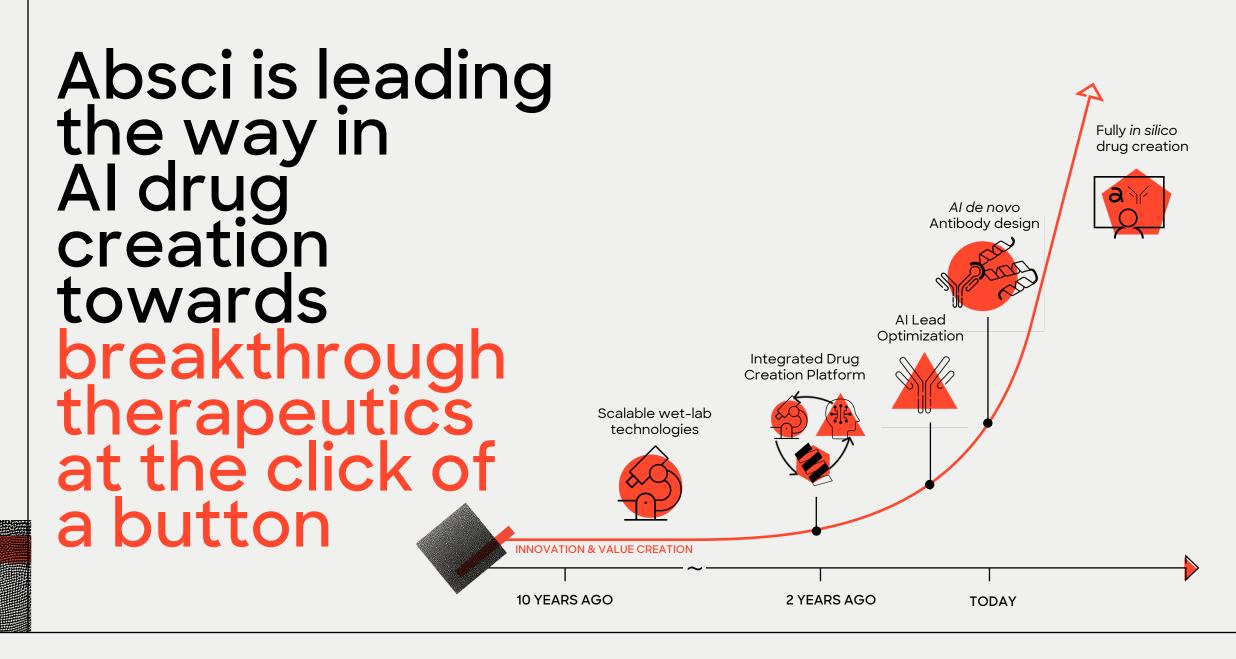
PENELOPE Chief Morale Officer

Board of Directors



Leadership experience from:





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This revolution is only just beginning.