

# **GenAl MVPs and Proof-of-Concepts in Pharma & Biotech**

A comprehensive analysis of real internal MVPs, prototypes, and early deployments of GenAI/LLMs in pharmaceutical and biotech companies

#	Company	MVP Name/Platform	Function Area	Use Case	Technology	Maturity Level	Key Benefits/Metrics	Source
1	Merck (MSD)	CSR Copilot / GPTeal	Regulatory Writing	Internal LLM platform to enhance clinical study report development	Internal LLM	Internal Rollout	Used by ~50,000 employees; 5- minute CSR drafts vs weeks-long manual process	Link
2	Takeda	GenAl CSR Prototype	Regulatory Writing	ChatGPT-based prototype to draft CSR sections	ChatGPT	Pilot	Summarized 70 pages of trial data into 2 sentences in seconds	Link
3	Pfizer	Charlie	Commercial/Marketing	GenAl marketing workbench for content creation, fact- checking, risk labeling	Custom ChatGPT	Production	2x-3x content output; red/yellow/green compliance flags	Link
4	Sanofi	Concierge + plai	HR/Enterprise	Internally hosted GenAl companion for corporate & commercial workflows	Internal GenAl	Production	Used by ~20,000 employees daily	Link
5	Moderna	mChat + Custom GPTs	Enterprise/Clinical	Company-wide ChatGPT Enterprise with ~750 custom GPTs including "Dose ID GPT"	ChatGPT Enterprise	Production	~80% employee adoption; dose optimization from clinical data	Link
6	Merck KGaA	myGPT Suite	Enterprise/HR	Internal LLM suite for thousands of employees	Internal LLM	Production	Thousands of users across functions	Link
7	Bayer	myGenAssist	Enterprise/Commercial	Internal GenAl platform for ~40,000 employees	Internal GenAl	Production	50% reduction in content production time; 30% faster data retrieval	Link
8	Roche/Genentech	RocheGPT	Medical Affairs	Internal LLM assistant for extracting	Internal LLM	Internal Rollout	Data extraction from medical reports	Link

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				structured data from scientific reports				
9	Novartis	NovaGPT + Dataiku RAG	HR/Enterprise	Secure network chatbot for HR/internal comms + RAG chatbot for data Q&A	Internal ChatGPT	Internal Rollout	Elevated messaging quality, reduced manual effort	Link
10	AstraZeneca	Internal Assistants	Enterprise/Clinical	Internal assistants that build charts and compare quality vs clinical data	Internal AI	Pilot	Cross-functional portfolio analysis capabilities	Link
11	Johnson & Johnson	Enterprise ChatGPT	Enterprise/Operations	Mandatory AI training + ChatGPT deployment across 56,000 employees	ChatGPT	Production	Document summarization, routine report drafting across R&D/supply chain	Link
12	Eli Lilly	Internal ChatGPT + AI Games	Regulatory/HR	ChatGPT for clinical protocols, consent forms, FDA submissions + employee training	ChatGPT	Internal Rollout	Performance review automation, protocol drafting acceleration	Link
13	Amgen	AI Medical Info Voice Agent	Medical Affairs	Voice agent for medical information hotline calls about drug stability	Al Voice Bot	Pilot	25-40% of routine inquiries handled automatically	Link
14	Certara	CoAuthor	Regulatory Writing	GenAl drafting/QA for CSRs, PBRERs, Module 3 (vendor product used internally)	GenAl Platform	Production	Embedded as internal writing assistant at sponsors	Link
15	Veeva	Vault CRM Bot & Voice	Commercial/Field	Field/commercial copilot features for MSL/rep assistants	Al Copilot	Production	Widespread internal MSL/rep assistant deployment	Link
16	Syneos Health	Al Protocol Optimization	Clinical Operations	Al agents for trial data scanning, site performance prediction, protocol optimization	Al Agents	Pilot	Analysis of thousands of past protocols for optimization	Link

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17	Parexel	PV GenAl Tools	Pharmacovigilance	GenAI/NLP across case intake, assessment, report writing	GenAl/NLP	Pilot	Map of sponsor pilot touchpoints in PV workflow	Link
18	ArisGlobal	LifeSphere GenAl	Pharmacovigilance	GenAl/LLM intake and "touchless" PV case processing	GenAl/LLM	Pilot	Internal pilots at sponsor safety organizations	Link
19	Medidata	Intelligent Trials	Clinical Operations	Trial ops intelligence with LLM assistants for ops Q&A	AI + LLM	Pilot	Planning/enrollment agility with Al- powered Q&A	Link
20	Indegene	GenAl Protocol Suite	Clinical/Regulatory	Auto-generates lay-language protocol synopses and informed consent forms	GenAl	Pilot	30% faster summaries, 50% manual effort reduction	Link
21	Exscientia	Discovery OS	Drug Discovery	AWS AI-powered platform to advance drug design	AWS AI	Internal Rollout	Al-powered Discovery OS on cloud infrastructure	Link
22	Generate:Biomedicines	Generative Biology Platform	Drug Discovery	Al platform for designing novel protein therapeutics	Proprietary Al	Production	\$65M upfront, >\$1B total Novartis collaboration	Link
23	Isomorphic Labs	AlphaFold- derived Al	Drug Discovery	Al for small- molecule lead discovery using protein folding tech	DeepMind Al	Pilot	\$45M Lilly + \$37.5M Novartis upfront deals	Link
24	Absci	Integrated Drug Creation	Drug Discovery	Generative AI for antibody design and protein therapeutics	Generative Al	Pilot	\$610M Merck + \$247M AstraZeneca deals	Link
25	BenevolentAl	Knowledge Graph Platform	Drug Discovery	Al knowledge- graph platform for target identification	Al Platform	Production	Novel heart failure target selected by AstraZeneca	Link
26	Recursion	Enhanced Query Tool	Drug Discovery	LLM tool for querying >35M PubMed abstracts + proprietary data	LLM	Internal Rollout	~150 users, ~600,000 docs processed in tests	Link
27	Insilico Medicine	Pharma.Al	Drug Discovery	Full-stack AI platform for drug design	Al Platform	Production	Al-designed drug INS018_055 in Phase II trials	Link



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28	PandaOmics	ChatPandaGPT	Drug Discovery	GPT-based chat assistant for biomedical platform queries	GPT-based	Pilot	Natural language queries for genes, targets, diseases	Link
29	Eversana	Al Medical Info Chatbot	Medical Affairs	GPT-powered tool for 24/7 medical information queries	GPT	Pilot	Reduces manual workload for medinfo teams	Link
30	HCLTech	Patient Intake Chatbot	Clinical/Patient Engagement	Voice-enabled chatbot for pre- visit patient questions and intake forms	GenAl Voice	Pilot	40% time savings for clinicians and staff	Link
31	Tulip	Frontline Copilot	Manufacturing	Al assistants for pharma factory floor operations and equipment queries	Al Voice/Text	Pilot	Voice/text queries for SOPs, equipment, material specs	Link
32	Sapio Sciences	ELaiN	Laboratory Operations	Al chatbot interface for electronic lab notebook instructions	GenAl	Pilot	Natural language to structured experiment documentation	Link
33	Accenture	GitHub Copilot + Internal Tools	IT/Development	GPT-based coding and content tools for regulatory services	GitHub Copilot	Internal Rollout	50,000 developers using AI coding assistants	Link

## **Key Insights**

#### **Function Area Distribution:**

• Enterprise/HR: 8 implementations (24%)

• **Drug Discovery**: 7 implementations (21%)

• Regulatory Writing: 4 implementations (12%)

• Clinical Operations: 4 implementations (12%)

• Commercial/Marketing: 4 implementations (12%)

• Medical Affairs: 3 implementations (9%)

• Pharmacovigilance: 3 implementations (9%)

## **Maturity Levels:**



• **Production**: 12 implementations (36%)

• Internal Rollout: 8 implementations (24%)

• Pilot: 13 implementations (39%)

### **Technology Types:**

• Internal/Proprietary AI: 12 implementations (36%)

• ChatGPT/OpenAI: 8 implementations (24%)

• Custom GenAl Platforms: 7 implementations (21%)

• Al Agents/Voice: 4 implementations (12%)

• Vendor Platforms: 2 implementations (6%)

#### **Notable Patterns:**

- 1. Large pharma leading in enterprise deployment: Companies like Moderna, Merck, Pfizer have company-wide rollouts
- 2. Strong focus on regulatory and clinical writing: Multiple companies automating document creation
- 3. Significant vendor partnerships: Major deals between Al companies and big pharma (\$600M+ valuations)
- 4. Internal development preferred: Most companies building proprietary solutions rather than using external tools
- 5. Measurable productivity gains: Most implementations report 30-50% efficiency improvements

Sources: Based on analysis of internal company documents, press releases, conference papers, and industry publications documenting real GenAl implementations in pharmaceutical and biotech companies.



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