

Global CDMO Services for Biologics and Cell & Gene Therapies

AGC Biologics Company Introduction



Our Purpose

Cardiovascular Diseases

Pediatric Metachromatic Leukodystrophy

Arthritis, Spondylitis

Febrile Neutropenia

COVID-19

Refractory Acute Myeloid Leukemia

Systemic Lupus Erythematosus

Homocystinuria

Our purpose is to **bring hope to life** by enabling life-changing therapies for patients around the globe, creating a healthier and happier tomorrow.

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Treat	atment of Solid Tumors	Soft-Tissue Sarcoma	Anemia	Diabetes
			Rheumatoid Arthritis	
	Fibrosis and Inflammatory Diseas	se la		
		Crohn's Disease		Malignant lymphoma
		I Hypertension (PAH)		



Our Core Values



KNOWLEDGE – We possess strong scientific and technical expertise



TRUST – We create positive experiences that our customers can rely on



QUALITY – We strive for excellence in our people, products and services



INGENUITY – We find creative solutions to difficult challenges



ACCOUNTABILITY – We follow through on our commitments



TEAMWORK – We put the success of the team above our own personal goals





Our Mission

To work side by side with our customers in order to **improve patients' lives** by bringing new biopharmaceuticals to market.



Mammalian

Microbial

pDNA

Viral Vector

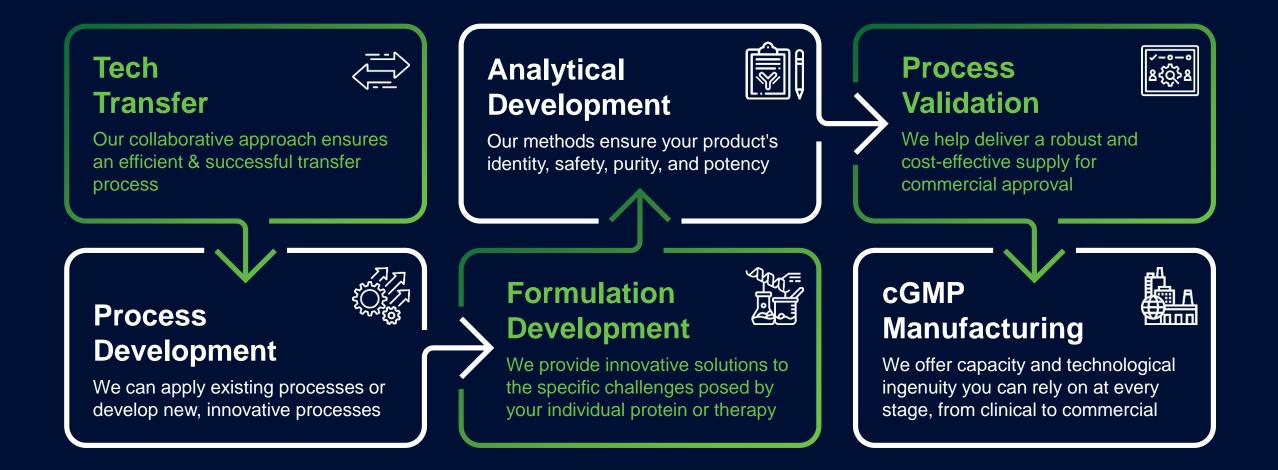
Cell Therapy

mRNA





Our Services — from Pre-Clinical to Commercial

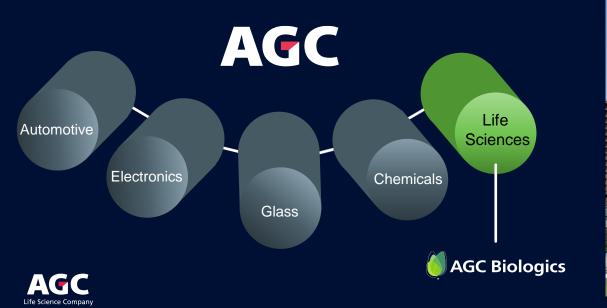






AGC Biologics is Part of AGC, Inc.

- Founded in 1907
- Headquarters in Tokyo, Japan
- Net FY sales: 2,036 B Yen (~14.1 B USD)
- 57,000+ employees globally
- Strategic businesses driving revenue and future growth:





Benefits for AGC Biologics Customers

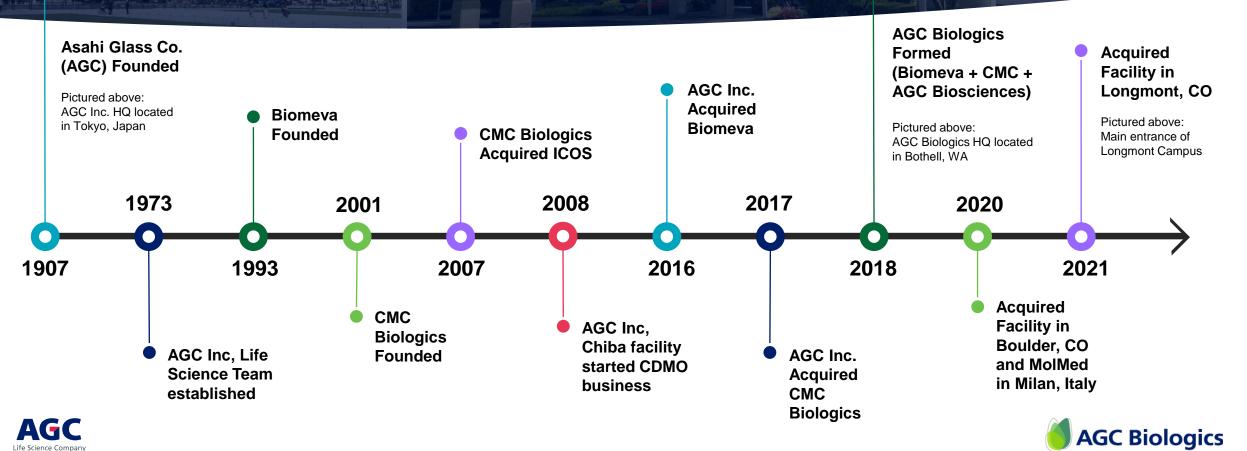
Financial stability and backing of a global organization

Long-term vision and strategic plan for AGC Biologics

Access to capital to expand global capabilities and capacity

Our History

• AGC



What Makes Us Unique



Customer-Centric Culture

- Partnering on a mission to impact and save lives
- Unparalleled culture of communication
- Ability to scale with our customers' evolving needs

Technical Innovation

- Backed by 25 years of industry-leading experience
- Forefront of development
- Significant investments in innovation for our customers' current and future needs



Global Facilities Network

- Seven world-class cGMP facilities across three continents
- Over 2,500 talented employees
- Continuous expansion









Seattle Washington, USA Regulatory Approvals: FDA, PMDA FMA Acquired

- Mammalian manufacturing scale from 100 L to 12,000 L, including Bioreactor 6Pack™ technology
- Upstream, downstream and analytical development
- Center of Excellence for formulation
- Fed-batch and perfusion manufacturing processes
- Expansion completed on the installation of 24,000 L added mammalian capacity and a 1,500 L microbial production facility



Seattle



Cell Therapy

Viral Vector



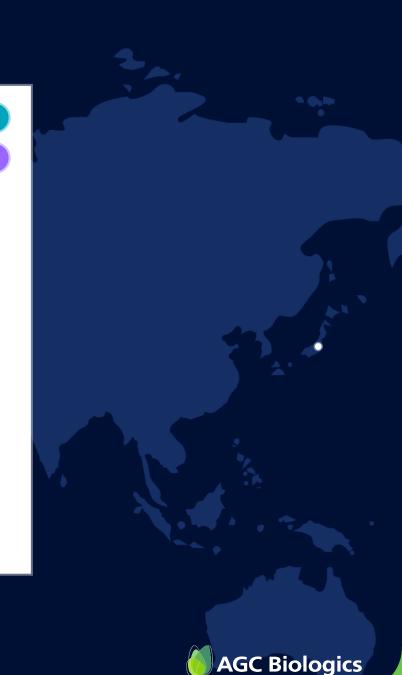
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Longmont Colorado, USA

Regulatory Approvals: FDA Registered

- 100+ GMP commercialization batches produced without failure
- Analytical and process development for viral vector and cell therapy
- Multi-product viral vector manufacturing and fill / finish (AAV, LVV, RVV)
- Adherent: 24 L / 48 L cell factories, 200 L fixed-bed bioreactor (iCELLis500)
- Suspension: bioreactors ranging 50 L, 200 L, 500 L, 2,000 L
- iCELLis500 bioreactors ranging 200 L, 500 L, 2,000 L
- Multiple new cell therapy processing suites
- Automated fill and finish for viral vectors in early 2024





Mammalian



Boulder Colorado, USA

Regulatory Approvals: FDA Registered

- State-of-the-art large-scale commercial mammalian manufacturing, featuring 2 x 20,000 L vessels (17,000 working volume)
- Designed for high titer DSP processes (up to 10 g/l)
- Large scale volume + high titers = tremendous cost savings
- Ability to expand by two to four 20,000 L vessels



AGC Biologics



Boulder





Copenhagen Denmark

Mammalian Microbial

Regulatory Approvals: FDA, EMA, HC, PMDA, ANVISA

- Mammalian manufacturing scale from 100 L to 12,000 L, including the Bioreactor 6Pack[™] technology
- Three independent mammalian lines with fed-batch and perfusion capabilities
- Microbial manufacturing at 2 x 1,500 L
- Upstream, downstream and analytical development
- New facility adding 8 x 2,000 L single-use bioreactors coming online early 2024

• Copenhagen





• Heidelberg



Heidelberg Germany



Regulatory Approvals: FDA, EMA, PMDA FMA Acquired

- Center of Excellence for plasmid DNA, with commercial manufacturing experience
- Offering pDNA supply in all grades and quantities
- mRNA supply in various quantities (R&D / GMP grade)
- Microbial manufacturing scale from 100 L to 1,000 L
- Upstream, downstream and analytical development
- Freedom-to-Operate and RNAse free processes





Milan



Milan Italy

Cell Therapy

Viral Vector

Regulatory Approvals: EMA, TFDA

- 25+ years of industry-leading expertise and 3 commercially approved products
- Cell therapy and viral vector clinical and commercial capabilities with large GMP capacity
- AAV / LVV / RVV manufacturing and Fill / Finish
- Adherent: 24 L / 48 L cell factories, 200 500 L fixedbed bioreactor (iCELLis500)
- Suspension: 50 L, 200 L and 1,000 L bioreactors
- Cell therapy: 10+ suites performing open and closed processes for both autologous and allogeneic products
- Processes and capabilities for virtually any cell type, CD34⁺HSC, T-Cells, NK Cells, hMSCs and more.
- 160+ in-house analytical tests ensures fast turnaround







Mammalian Microbial pDNA

Regulatory Approvals: PMDA, MFDS

Microbial manufacturing scale up to 3,000 L

Chiba

Japan

- Mammalian manufacturing scale from 500 L to 2,000 L
- Upstream, downstream and analytical development
- Only CDMO in Japan with microbial and mammalian capabilities backed by a global resources network
- pDNA development up to 20 L, stainless steel fermenter
- High-Quality and GMP plasmid manufacturing scale from 100 L to 150 L, stainless steel fermenters





Chiba

Seven Sites, One Quality System



Environment, Health & Safety (EHS) is a Top Priority

Compliance

Risk Assessment

Continuous Improvement

Operation

Changes

Sustainability

Regulatory requirements are consistently monitored to ensure compliance.

Established processes help identify potential EHS hazards related to our operations.

EHS Management System ensures a strong focus on ongoing improvement projects.

Process controls in place reduce potential of negative EHS impact by day-today operations.

Formal evaluations assess potential EHS impact by new projects and other changes.

Continuous efforts in sustainability development help ensure a bright future for our planet.

AGC Biologics





Energy

(CPH)

45001:2018 Health & Safety (CPH, SEA)



WA State, U.S. Safety & Health (SEA)



Current Programs & Track Record







Experienced Leadership

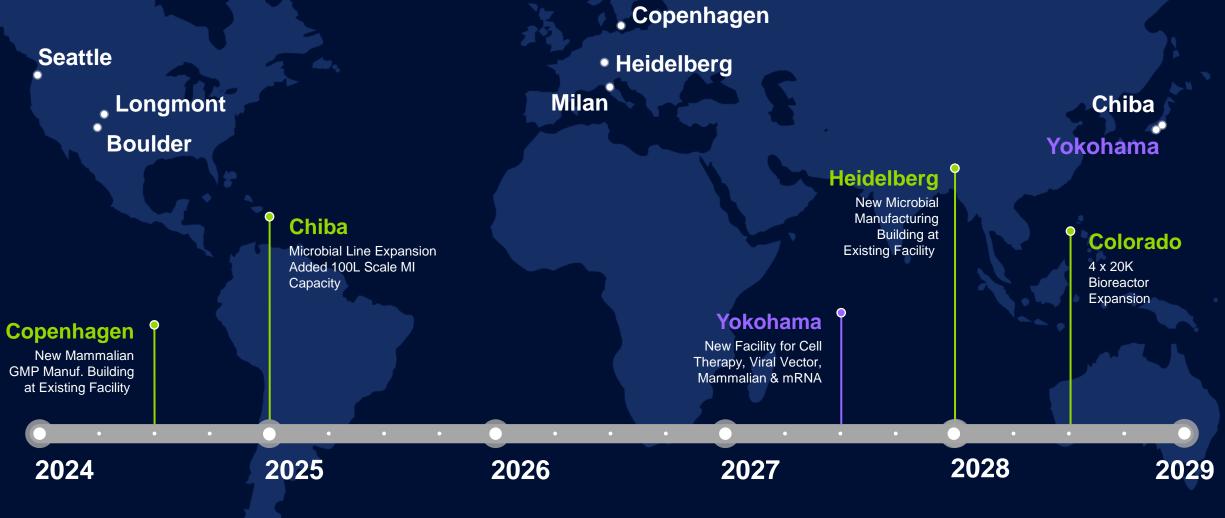






Global Expansions 2024-2028

Expansions at Existing Sites New Facility Construction



This timeline reflects current plans for expansion from 2024 through 2028 and is subject to change.





A Partnership You Can Rely On



Customer-Centric Culture

We work side-by-side with you — collaborating, problem solving and being great partners to each other.



Technical Innovation

We are driven by flexible thinking, continuous innovation and technical creativity.



Global Facilities Network

Our globally aligned network of sites in the U.S., Europe and Asia provides a consistent and seamless experience.







Thank You

Learn more at agcbio.com

