Q4 Topics (1/2)



Launched	Phesgo	"HER2+ BC" and "advanced or recurrent HER2+ CC that has progressed following cancer chemotherapy and is not amenable to curative resection"	November 2023
Approved	Rituxan	Suppression and treatment of antibody-mediated rejection in organ transplantation	December 2023
Filed	Alecensa	Postoperative adjuvant therapy for <i>ALK</i> fusion genepositive non-small cell lung cancer	November 2023 (US/EU/China) December 2023 (Japan)
Initiation of	avutometinib/VS-6766	Recurrent LGSOC (combination with defactinib) *	P3 study (December 2023)
study	REVN24	Acute diseases	P1 study (October 2023)
Phase Transition	AMY109	Endometriosis	P1 study→P2 study (January 2024)
Readout	RG6356/SRP-9001	EMBARK study (DMD) did not meet its primary endpoint (favorable secondary endpoints)	October 2023
Reduout	Tecentriq	IMvoke010 study (head and neck carcinoma) did not meet its primary endpoint	2023 Q4
Removed from	Tecentriq	IMvoke010 study (head and neck carcinoma): development discontinued	
pipeline	semorinemab	Domestic P1 (Alzheimer's disease): development discontinued	

Q4 Topics (2/2)



Medical	Hemlibra	HAVEN 7 study (babies with severe hemophilia A): American Society of Hematology (ASH)	December 2023
conference	Kadcyla	KATHERINE study (HER2+ early-stage breast cancer): San Antonio Breast Cancer Symposium (SABCS)	December 2023
	nemolizumab	OLYMPIA 2 study* (prurigo nodularis): New England Journal of Medicine (NEJM)	October 2023
Literature publication	NXT007	Non-clinical research results: Journal of Thrombosis and Haemostasis	November 2023
	DONQ52	Non-clinical research results: Nature Communications	December 2023
Orphan drug designation	Alecensa	Postoperative adjuvant the rapy for ALK fusion gene-positive non-small cell lung cancer	December 2023 (Japan)
Priority review designation	Alecensa	Postoperative adjuvant therapy for <i>ALK</i> fusion gene-positive non-small cell lung cancer	January 2024 (US)
Exercise of option rights by out-licensing partners	EOS789	Worldwide exclusive license to develop, manufacture, and commercialize: Alebund Pharmaceuticals Ltd.	October 2023
Business Transfer	Xeloda	Transfer of the business in Japan: CHEPLAPHARM K.K.	November 2023

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2023: Key R&D Milestones

Underlined and bolded are new progress since October 24, 2023

	Product	Indication/Study name	Progress
	Actemra	Systemic sclerosis with interstitial lung disease (SSc-ILD) (EU)	withdrawal
Projects to be	Hemlibra	Moderate hemophilia A (EU)	approved
approved	crovalimab	PNH (China)	2024
	<u>Phesgo</u>	HER2+ breast cancer/colorectal cancer	Approved/ <u>launched</u>
	<u>Alecensa</u>	ALINA study: NSCLC [adjuvant]	met PE/ <u>filed</u>
	crovalimab	COMMODORE 1/2 study: PNH	met PE/filed
	nemolizumab	ARCADIA 1/2 study¹: Atopic dermatitis	met PE
	Tecentriq + Avastin	IMbrave050 study: Hepatocellular carcinoma [adjuvant]	met PE
	Tecentriq	IMpassion030: early breast cancer [adjuvant]	Development discontinued
P3/Pivotal readouts	<u>Tecentriq</u>	IMvoke010 study: Head and neck carcinoma [adjuvant]	did not meet PE /development discontinued
	Tecentriq+ tiragolumab	SKYSCRAPER-01 study: NSCLC [1st line]	H2 2024 ²
	mosunetuzumab+Polivy	SUNMO study: r/r aggressive B-cell non-Hodgkin's lymphoma	2024
	delandistrogene moxeparvovec	EMBARK study: Duchenne muscular dystrophy (DMD)	did not meet PE (favorable secondary endpoints)



2024: Key R&D Milestones

	Product	Indication/Study name	Progress
	crovalimab	Paroxysmal nocturnal hemoglobinuria (Japan/US/EU)	
Projects to be approved	Alecensa	NSCLC (adjuvant) (Japan/US/EU)	
арргочес	Vabysmo	Retinal vein occlusion	
	Enspryng	Luminesce study: generalized myasthenia gravis	
Do /DI	Tecentriq + tiragolumab	SKYSCRAPER-01 study: NSCLC(1st Line)	
P3/Pivotal readouts	mosunetuzumab	Domestic P1 (Expansion cohort): Follicular lymphoma (3rd Line)	
	mosunetuzumab + Polivy	SUNMO study: r/r aggressive B-cell non-Hodgkin's lymphoma	
	Vabysmo	NIHONBASHI study: Angioid streaks	
P2 readouts	GYM329 + Evrysdi	MANATEE study: Spinal muscular atrophy (SMA)	

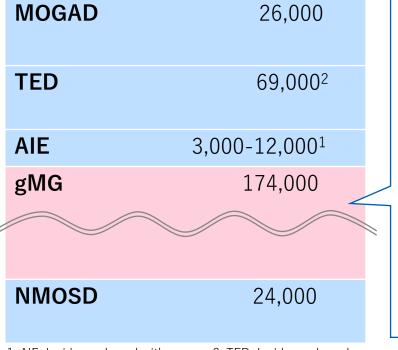
Letters in orange: in-house projects (development in global) Letters in blue: in-licensed from Roche (development and distribution in Japan)

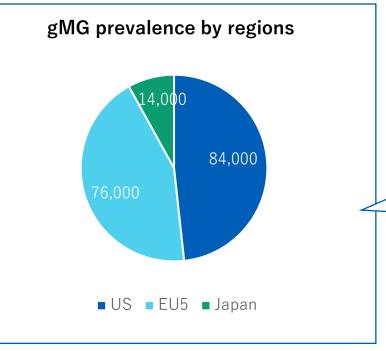
CHUGAI Roche Roche Group

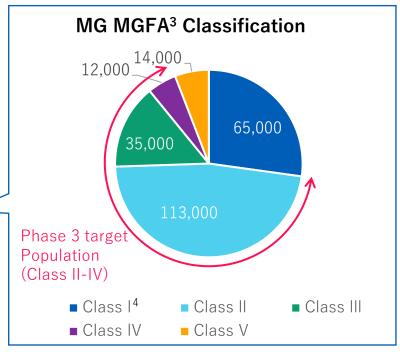
Market Opportunity of Enspryng

- Launched in 2020 for the indication of NMOSD. Global sales in 2023 total 256mCHF
- Readout of Global P3 study for gMG and regulatory filing are expected in 2024. Four indications are simultaneously under development
- First antibody utilizing Chugai's proprietary Recycling Antibody® technology which enables convenient every four-week subcutaneous injection. Confirmed favorable safety profile in the data from clinical studies for NMOSD

Diagnosed prevalence in 2025 (# of patients in US/EU5/Japan)







3. MGFA: Myasthenia Gravis Foundation of America

^{4.} Class I is not included in gMG

 $^{1. \ \}mathsf{AIE}; \ \mathsf{Incidence\text{-}based} \ \ \mathsf{with} \ \mathsf{ranges} \ \ 2. \ \mathsf{TED}; \ \mathsf{Incidence\text{-}based}$

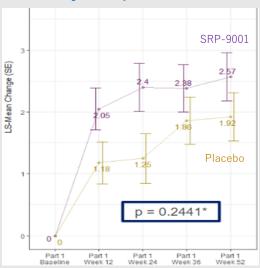
Source: Citeline data as of Dec. 2023, numbers are rounded



delandistrogene moxeparvovec (RG6356/SRP-9001)

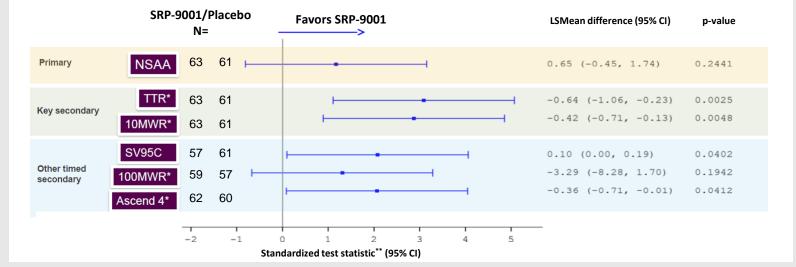
Global Phase 3 EMBARK study did not reach the primary endpoint, but shows positive efficacy outcomes on all timed functional key endpoints.

Primary Endpoint (NSAA)



- SRP-9001-treated patients improved 2.6 points on their NSAA total score at 52 weeks compared to 1.9 points in placebo-treated patients (0.65; n=125; p=0.24).
- The NSAA is a 17-item rating scale used to measure functional motor abilities in ambulant children with DMD. It is used to monitor the progression of the disease and treatment effects in clinical studies for DMD.

Key secondary functional EPs (TTR, 10MWR) with clinically significant treatment benefit



- Both key pre-specified functional secondary endpoints demonstrated robust evidence for a clinically meaningful treatment benefit across age groups in SRP-9001-treated patients (age of 4-7) compared to placebo at 52 weeks.
- TTR (Time To Rise) predicts altered trajectories for the time to loss of ambulation in natural history. At 52w, 3% of SRP-9001-treated patients showed a TTR >5sec compared to 16% in the placebo group (n=124, p=0.0135)^a.
- Safety: Pattern and severity of AE/SAE were consistent with prior studies, no deaths and no discontinations occurred.
- Based on the results, Chugai will work together with Sarepta and Roche to consult with regulatory authority in Japan.

 a-post hoc analysis

SAIL66: Anti-CLDN6/CD3/CD137 trispecific (Dual-Ig®)

Killing



Next Generation T-cell Redirecting Antibody Targeting Claudin 6 using our Dual-Ig® Technology

cell

Silent Fc

CD3

CD137

Phase 1 study in patients with CLDN6-positive solid tumors is currently ongoing.

Dual-Ig®

- Non-simultaneous binding to CD3 and CD137 and induction of potent T cell activation stimuli in the presence of tumor antigen
- The potential for long-term efficacy through T cell proliferation and the inhibition of exhausted T cell by CD137 costimulatory signals
- Non-simultaneous binding to CD3 and CD137 avoids activation of T cell in a tumor antigen independent manner and killing of immune cells

Anti-CLDN6

Reduce safety risk by having high selectivity for Claudin 6 (CLDN6) and not binding to CLDN3/4/9



Tumor

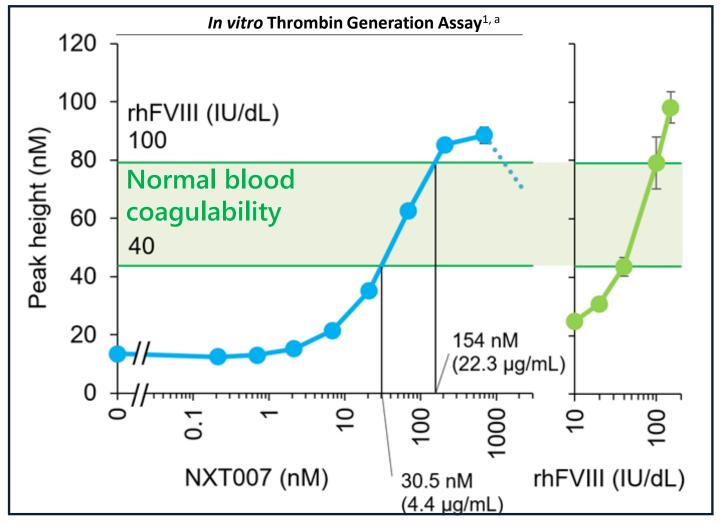
What is Claudin 6?

- One of the tight junction proteins
- Overexpressed in some malignancies including ovarian cancer and NSCLC, while showing almost silent expression in normal tissues
- · High tumor specificity expected

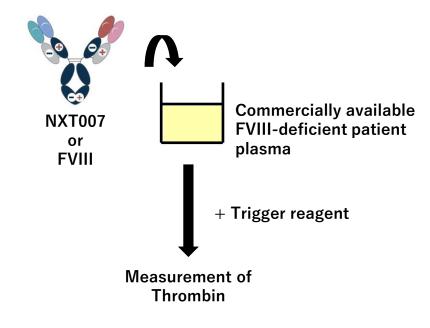


NXT007 Demonstrated Possibility of Maintaining Blood Coagulability Representation Equivalent to Healthy Individuals in People with Hemophilia A





Non-clinical research data (in vitro)

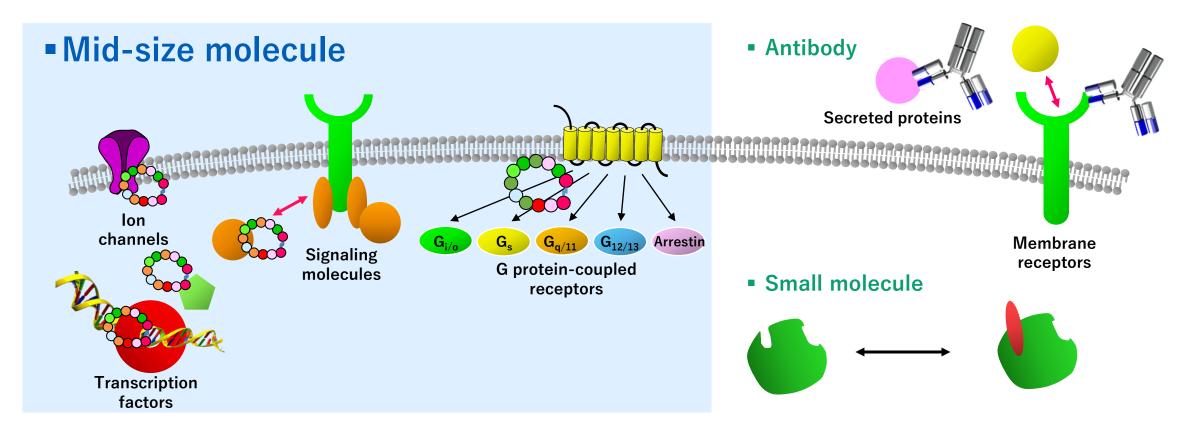


¹ Yuri Teranishi-Ikawa et. al Journal of Thrombosis and Haemostasis 2023 (partially modified)

a tissue factor triggered



Chugai's Mid-Size Molecule Can Address Intracellular Tough Targets Undruggable by Small Molecules and Antibodies



- ✓ Antibodies can be applied targets only extracellular molecules (approx. 20% of the total proteins)
- ✓ Small molecules can only be applied to targets with clear pockets (approx. 20% of proteins).

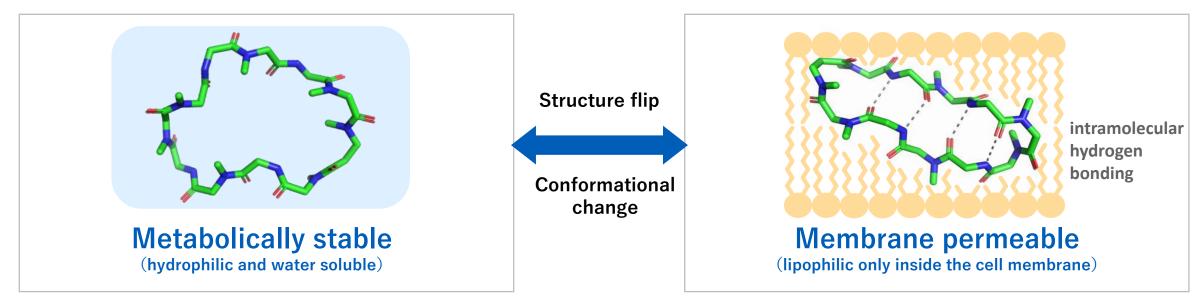


Chugai has Established Unique Mid-Size Molecules Technology

"Chugai Criteria" to create drug-like mid-size molecule beyond "Rule of 5"

Oral bioavailability Intracellular targeting High affinity binding

Cyclic peptides with 9-11 amino acids, more than half should be N-alkylated



Screening

17



Portfolio of Each Modality

Selection of candidates

11

As of February 1, 2024

			713 01 1 Cbruary 1, 2021
Drug Discovery	Pre-clinical development	Clinical	Launched
Antibody drugs, cellular and gene the	nerapy products	GC33 ERY974 AMY109 GYM329 NXT007 STA551 SOF10 DONQ52	Enspryng (gMG, MOGAD, AIE, TED) crovalimab (PNH*, aHUS, SCD, LN) Enspryng Hemlibra Actemra
>20		• RAY121 • ALPS12 • SAIL66 ROSE12	Developments licensed out to 3rd parties excl. Roche nemolizumab (AD(overseas), PN) Mitchga (JPN)
Small molecule drugs		SPYK04	Alecensa (NSCLC adjuvant*) Alecensa Edirol Oxarol
Screening Selection of candidate 3	es	REVN24	Developments licensed out to 3rd parties excl. Roche orforglipron (T2D, obesity) avutometinib (LGSOC, NSCLC)
Mid-size molecule drugs			

LUNA18



12

Projected Submissions (Post PoC NMEs and Products)

Fil	ed			NME Line ex	tension	as of February 1, 2024
crovalimab (SKY59/RG6107) PNH (China)	ALECENSA (AF802/RG7853) NSCLC (adjuvant)(US)	VABYSMO (RG7716) RVO	in-house in-licensed (Roc	he)	★: new entry *Before obtaining	★: changes in submission year g PoC
crovalimab (SKY59/RG6107) PNH (Japan)	ALECENSA (AF802/RG7853) NSCLC (adjuvant)(EU)	giredestrant	Vabysmo	tiragolumab + TECENTRIQ	giredestrant	GAZYVA (RG7159)
crovalimab (SKY59/RG6107)	ALECENSA (AF802/RG7853) ★	(RG6171)) 1L - 3L breast cancer	(RG7716) Angioid streaks	(RĞ6058 + RG7446) 1L NSQ NSCLC	(RG6171) 1L breast cancer	Extra renal lupus
crovalimab (SKY59/RG6107)	NSCLC (adjuvant) (China) ALECENSA (AF802/RG7853) ★	tiragolumab + TECENTRIC (RG6058 + RG7446) NSCLC (Stage III)	TECENTRIQ+AVASTIN (RG7446 + RG435) HCC (intermediate stage)	ENSPRYNG (SA237/RG6168) MOGAD	giredestrant (RG6171) breast cancer (adj)	GAZYVA (RG7159) Pediatric nephrotic syndrome
PNH (EU)	NSCLC (adjuvant)(Japan)	tiragolumab (RG6058) 1L NSCLC + TECENTRIQ	TECENTRIQ (RG7446) MIBC (adjuvant)	ALECENSA (AF802/RG7853) NSCLC (Stage III)	RG6179 UME	GAZYVA (RG7159) Lupus nephritis
SRP-9001 (RG6356) DMD		ENSPRYNG (SA237/RG6168) TED	ranibizumab(PDS) (RG6321) DME	crovalimab (SKY59/RG6107) SCD* (US/EU)	mosunetuzumab (RG7828) 2L Follicular lymphoma	TECENTRIQ (RG7446) 2L HCC
mosunetuzumab (RG7828) 3L Follicular lymphor	AVASTIN (RG435) 1L SCLC + TECENTRIQ	ENSPRYNG (SA237/RG6168) Autoimmune encephalitis	ranibizumab(PDS) (RG6321) nAMD	GYM329/RG6237 FSHD*	tiragolumab(RG6058) 1L HCC TECENTRIQ + AVASTIN	TECENTRIQ (RG7446) early breast cancer (neoadjuvant)
ENSPRYNG (SA237/RG6168) gMG	TECENTRIQ+AVASTIN (RG7446 + RG435) HCC(adjuvant)	crovalimab (SKY59/RG6107) aHUS	mosunetuzumab+ POLIVY (RG7828+RG7596)	GYM329/RG6237 SMA* + EVRYSDI	tiragolumab + TECENTRIQ (RG6058 + RG7446) Esophageal cancer	TECENTRIQ (RG7446) NSCLC (neoadiuvant)

2024 2025 2026 and beyond

Projects under Development (1/2)



As of February 1, 2024

	Pha	ise I	Phase II	Phase	e III	Filed
Cancer	LUNA18 - solid tumors GC33 / codrituzumab - HCC ERY974 - solid tumors STA551 - solid tumors SOF10 (RG6440) - solid tumors SPYK04 - solid tumors ALPS12 (RG6524) - solid tumors SAIL66 - CLDN6 positive solid tumors ROSE12 - solid tumors RG7828 / mosunetuzumab - Follicular lymphoma (3L)	RG7421 / cobimetinib - solid tumors RG6026 / glofitamab - hematologic tumors RG6194 / runimotamab - solid tumors RG6330 / KRAS G12C inhibitor - solid tumors RG6433 / SHP2 inhibitor - solid tumors RG6160 / cevostamab - r/r multiple myeloma RG6139 / tobemstomig - solid tumors	RG6396 / pralsetinib - NSCLC (2L) - solid tumors	AF802 (RG7853) / Alecensa - NSCLC (stage III)* RG7446 / Tecentriq - NSCLC (neoadjuvant) - MIBC (adjuvant) - Ealy BC (neoadjuvant) - HCC (2L) - Prostate cancer (2L) RG7446 / Tecentriq + RG435 / Avastin - SCLC (1L) - HCC (adjuvant) - HCC (intermediate stage)	RG6058 / tiragolumab + RG7446 / Tecentriq - NSCLC (1L) - NSCLC (stage III) - NSQ NSCLC (1L) - Esophageal cancer RG6058 / tiragolumab+RG7446 / Tecentriq+RG435 / Avastin - HCC (1L) RG6171 / giredestrant - BC (adjuvant) - BC (1L) - BC (1L-3L) RG7828 / mosunetuzumab - Follicular lymphoma (2L) RG7828 / mosunetuzumab + RG7596 / Polivy - r/r aNHL RG6396 / pralsetinib - NSCLC (1L)	AF802 (RG7853) / Alecensa - NSCLC (adjuvant) (US/EU/China/Japan)★

Letters in orange: in-house projects (development in global) Letters in blue: in-licensed from Roche (development and distribution in Japan)

Projects under Development (2/2)



As of February 1, 2024

	Phase I	Phase II	Phase III		Filed
Immunology	DONQ52 SKY59(RG6107)/ - Celiac disease crovalimab - Lupus nephritis - Autoimmune disease		RG7159 / Gazyva - Lupus nephritis - Pediatric nephrotic syndrome - Extra renal lupus		
Neurology	RG7935 / prasinezumab - Parkinson's disease RG6102 / trontinemab - Alzheimer's disease (PI/II)	GYM329 (RG6237) + Evrysdi - SMA (PII/III) - FSHD RG6042 / tominersen - Huntington's disease	- gMG del - MOGAD mo	RP-9001(RG6356) / landistrogene oxeparvovec MD*	
Hematology	NXT007 (RG6512) - hemophilia A (PI/II)	SKY59 (RG6107) / crovalimab (US/EU) - SCD	SKY59 (RG6107) / crovalimab - aHUS		SKY59 (RG6107) / crovalimab (Japan, US, EU) - PNH SKY59 (RG6107) / crovalimab (China) - PNH
Ophthalmology	RG6321 / PDS - nAMD (PI/II) - DME (PI/II)		· · · · · · · · · · · · · · · · · · ·	36179 JME	RG7716 / Vabysmo - RVO
Other	REVN24 - acute diseases ★	AMY109 - Endometriosis ★			

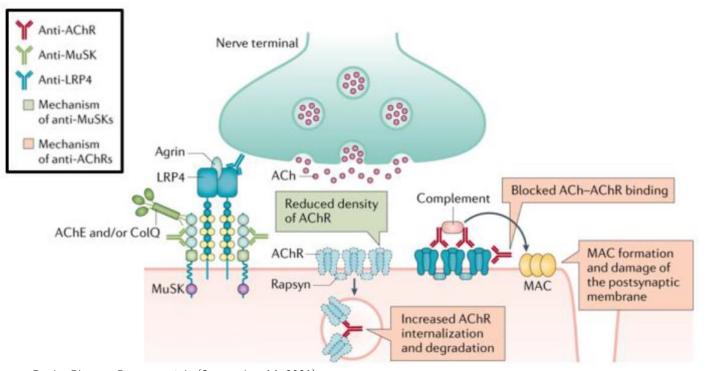
Letters in orange: in-house projects (development in global) Letters in blue: in-licensed from Roche (development and distribution in Japan)

^{*} Sarepta manages the global study, including Japan

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Generalized Myasthenia Gravis (gMG)

Enspryng: IL-6 blockade may reduce pathogenic autoantibody production



Source: Roche Pharma Day materials (September 14, 2021)

- 1) Myasthenia gravis clinical practice guideline 2014 (supervisor: Japanese Society of Neurology), Nankodo
- 2) Kerty E, Elsais A, Argov Z, et al. EFNS/ENS Guidelines for the treatment of ocular myasthenia. European Journal of Neurology 2014;21:687-93.
- 3) Gilhus N, Tzartos S, Evoli A, et al. Myasthenia gravis. Nat Rev Dis Primers 2019;5(30). Available from the Internet: https://www.nature.com/articles/s41572-019-0079-y
- 4) Health and Labor Sciences Research Grants Policy Research Project for Intractable Diseases (Policy Research Project for Intractable Diseases) Verification of Diagnostic Criteria, Severity Classification, Guidelines and Patient QOL Based on Evidence of Neuroimmune Diseases Summary / Sharing Research report (2018)

- gMG is an chronic autoimmune disease against molecules on the postsynaptic membrane of the neuromuscular junction and is characterized by painless muscle loss with easy fatiguability of skeletal muscle.¹⁾
- Transition from initial symptoms such as ptosis and diplopia to systemic type is observed. gMG with cervical limb weakness, dysarthria, dysphagia, breathing disability, etc. accounts for 85% of the total. 1) 2)
- Although the autoantibody positive rate varies slightly depending on the report, it is reported that 80-85% of the total are acetylcholine receptor (AChR) antibody positive and about 5% are muscle specific kinase (MuSK) antibody positive. 3)
- In Japan, the 2018 National Epidemiological Survey estimates that there are 29,210 MG patients, or 23.1 per 100,000.⁴⁾

Delandistrogene moxeparvovec (RG6356/SRP-9001)

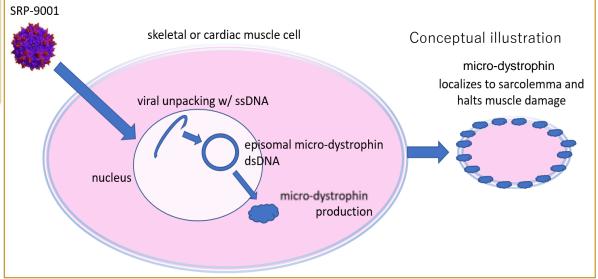


Gene transfer therapy developed for targeted muscle expression of micro-dystrophin, a shortened, functional dystrophin protein

Delandistrogene moxeparvovec (SRP-9001/RG6356) is an investigational gene transfer therapy developed for targeted muscle expression of micro-dystrophin, a shortened, functional dystrophin protein, that addresses the genetic cause of DMD.



- Aims to express micro-dystrophin a smaller but still functional version of dystrophin, used because naturally-occurring dystrophin is too large to fit in an AAV vector¹.
- Employs the AAVrh74 vector, which has a robust affinity for muscle cells, making it an ideal choice for delivering the microdystrophin transgene. AAVrh74 also has a relatively low level of pre-existing immunity¹.
- The MHCK7 promoter drives the expression of the microdystrophin transgene selectively in skeletal and cardiac muscle, and contains an α -MHC enhancer that has been shown to drive high protein expression, particularly in cardiac muscle.^{1,2}



Source: Roche internal materials

^{1.} Asher D, et al. Clinical development on the frontier: gene therapy for duchenne muscular dystrophy. Expert Opinion on Biological Therapy. 2020; 20:263-274;

^{2.} Salva MZ, et al. Design of Tissue-specific Regulatory Cassettes for High-level rAAV-mediated Expression in Skeletal and Cardiac Muscle. Mol Ther. 2007; 15:320-9;

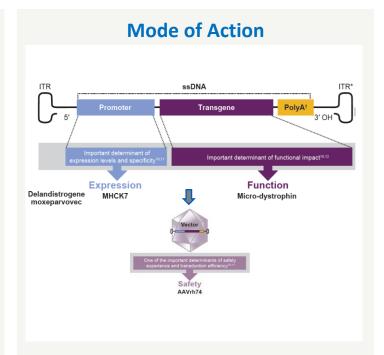


Delandistrogene moxeparvovec (RG6356/SRP-9001)

Phase 3 EMBARK study in ambulatory boys (≥4 to <8 yrs)with DMD, design and mode of action

Ph III EMBARK study design¹ Part 1:52 weeks Part 2:52 weeks^t Week 12 Week 52 Week 64 Week 104 Muscle Randomisation (N=125) NSAA placebo biopsy biopsy · Definitive diagnosis of DMD OLE Confirmed DMD Study mutation within exons 18-44 or delandistrogene placebo NSAA 46-79 biopsy biopsy moxeparvovec Part 1 patients will be randomized to treated or placebo (1:1) and stratified according to age and NSAA Change in NSAA total score from baseline to Week 52 in Part 1

- The EMBARK study is a double-blind, placebo-controlled trial in ambulatory 4-7 year-old boys with DMD (n=125, 1:1; Part1, 52 week observation period)
- † Patients, caregivers, investigators, and site staff remain blinded. Only a subset of patients will receive a muscle biopsy for expression assessments.



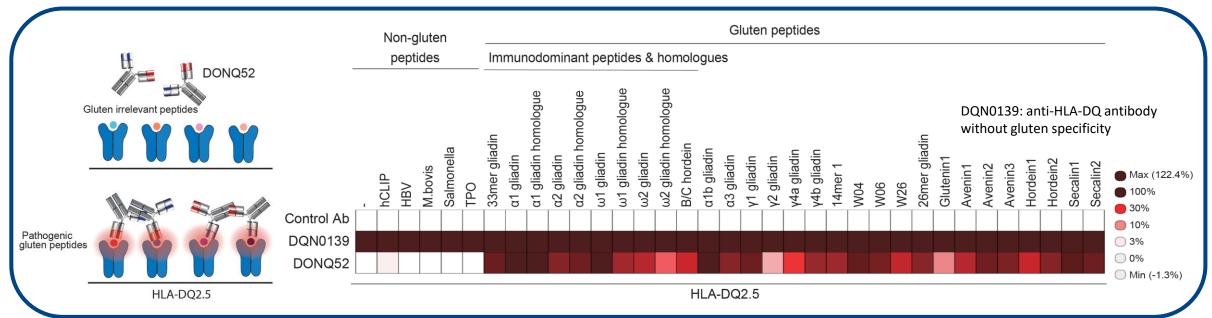
- Targeted delivery of micro-dystrophin transgene to key muscle tissue can enable meaningful and durable functional response
- AAVrh74 vector: low likelihood of pre-existing immunity and high tropism for skeletal & cardiac muscles
- Expression potentiated by the MHCK7 promoter in cardiac & skeletal muscle



DONQ52: Non-Clinical Research Results Published in Nature Communications 🔤 Rocke Group

DONQ52 binds to more than 25 types of gluten peptides that cause celiac disease

- Specific binding to complex of HLA-DQ2.5/gluten peptides. No binding to HLA molecule itself or complex of HLA-DQ2.5/irrelevant peptides.
- Binding to more than 25 peptides responsible for celiac disease by flexibly recognizing the unique motif of gluten epitopes





Small Molecule Drug Discovery: Portfolio

As of February 1, 2024

In-house molecule







Chronic disease



Cancer















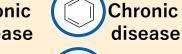
REVN24 (acute disease)







Chronic disease







Outsourced to a third party other than Roche



EOS789 (hyperphosp hatemia)



orforglipron (T2D /obesity)



Deberza (T2D)



avutometinib (LGSOC)

Screening Selection of candidates **Pre-clinical development**

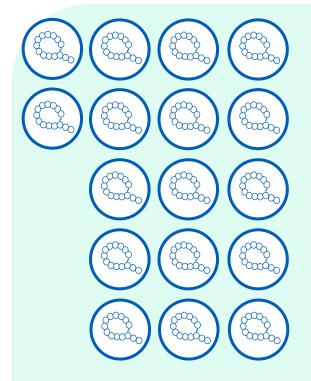
Clinical

Launched



Mid-Size Molecule Drug Discovery: Portfolio

As of February 1, 2024

















Chronic disease

Chronic disease

Chronic disease

Cancer

Acute disease

Cancer

Cancer

LUNA18 (Pan-RAS)



Chronic

disease





disease









Cancer



Cancer



Cancer



Antibody Drug, Cellular and Gene Therapy Product: Portfolio

* Projects that utilize multiple technologies are displayed in each technology.

As of February 1, 2024

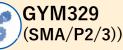
Recycling Antibody® Sweeping Antibody® etc.













crovalimab (PNH/Filed)

(Autoimmune disease/P1)

Multispecific antibody









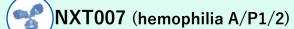








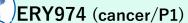








Hemlibra



ALPS12 (cancer/P1)

SAIL66 (cancer/P1)









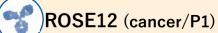




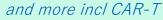




STA551 (cancer/P1)

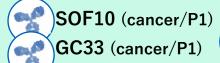


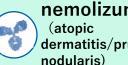






infectious disease





nemolizumab (dermatitis/prurigo nodularis)





Advances in Major Chugai Originated Projects Out Licensed to 3rd Parties

Generic name/develo pment code	Mode of Action	Licensee	Granted rights to licensee	Indication	Stage	Progress					
				Recurrent LGSOC	global: P3	 US FDA BTD (recurrent LGSOC in combination with defactinib) RAMP301 trial initiated★ 					
avutometinib/	RAF/MEK	Verastem	exclusive global license for		global: P2	—					
VS-6766	inhibitor	Oncology	the manufacturing, development and marketing	NSCLC	global:	 RAMP 203 trial (in combination with KRAS G12C inhibitor sotorasib) initiated 					
				D4 /0	 RAMP 204 trial (in combination with KRAS G12C inhibitor, adagrasib) initiated 						
			Galderma		global: P3	 Two P3 studies met primary endpoints 					
	Anti-IL-31 exclusive global license for receptor A Global the development and	·	Atopic dermatitis	Japan: filed	 Filed for additional indication for pruritus associated with atopic dermatitis (pediatric) 						
nemolizumab	humanize d	(Galderma) Japan (Maruho)	ize (Galderma)	nanize (Galderma	(Galderma)	(Galderma)	marketing excluding Japan and Taiwan	Galderma marketing excluding Japan and Taiwan	Prurigo nodularis	global: P3	US FDA BTDTwo P3 studies met primary endpoints
	monoclon al		Maruho rights for development and	C	Japan: filed	Filed for additional indication for prurigo nodularis					
	antibody		marketing in the skin disease area for the Japanese market	CKDaP	global: P2/3	_					
orforglipron/	Oral non- peptidic GLP-1	Eli Lilly and	worldwide development and	T2D	global: P3	 In a phase 2 study, orforglipron achieved HbA1c reduction up to 2.1% and 10.1 kg of weight reduction at 26 weeks. The results were published in The Lancet* 					
LY3502970	receptor agonist	Company	commercialization rights	Obesity	global: P3	 In the other phase 2 study, orforglipron demonstrated up to 14.7% weight reduction at 36 weeks. The results were published in the New England Journal of Medicine** 					

^{*} Juan PF, et al. Efficacy and safety of oral orforglipron in patients with type 2 diabetes: a multicentre, randomised, dose-response, phase 2 study. Lancet 2023.

^{**} Sean W, et al. Daily Oral GLP-1 Receptor Agonist Orforglipron for Adults with Obesity. NEJM 2023.

[★] Changes from the last announcement on October 24, 2023



FoundationOne CDx Cancer Genomic Profile -Companion diagnostic indications-

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* Underlined are the companion diagnostic features and relevant drugs currently under application for regulatory approval

Alterations	Cancer type	Relevant drugs
Activated <i>EGFR</i> gene alterations		afatinib dimaleate, erlotinib hydrochloride, gefitinib, osimertinib mesilate, dacomitinib hydrate
EGFR exon 20 T790M alterations		osimertinib mesilate
ALK fusion genes	NSCLC	alectinib hydrochloride, crizotinib, ceritinib, brigatinib
ROS1 fusion genes		Entrectinib
MET exon 14 skipping alterations		capmatinib hydrochloride hydrate
BRAF V600E and V600K alterations	Malignant melanoma	dabrafenib mesylate, trametinib dimethyl sulfoxide, vemurafenib, encorafenib, binimetinib
ERBB2 copy number alterations (HER2 gene amplification positive)	BC	trastuzumab (genetical recombination)
KRAS/NRAS wild-type	CRC	cetuximab (genetical recombination), panitumumab (genetical recombination)
Microsatellite Instability-High	CKC	nivolumab (genetical recombination)
Microsatellite Instability-High		pembrolizumab (genetical recombination)
Tumor Mutational Burden-High	Callal tomas	pembrolizumab (genetical recombination)
NTRK1/2/3 fusion gene	Solid tumors	entrectinib, larotrectinib sulfate
<u>RET fusion genes</u>		<u>selpercatinib</u>
BRCA1/2 alterations	Ovarian cancer	olaparib
BRCA1/2 alterations	Prostate cancer	olaparib, <u>talazoparib tosilate</u>
FGFR2 fusion genes	Biliary tract cancer	pemigatinib

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FoundationOne Liquid CDx Cancer Genomic Profile

Companion diagnostic indications

Alterations	Cancer type	Relevant drugs		
Activated <i>EGFR</i> gene alterations		afatinib dimaleate, erlotinib hydrochloride, gefitinib, osimertinib mesilate		
EGFR exon 20 T790M alterations	Non-small cell lung	osimertinib mesilate		
ALK fusion genes	cancer (NSCLC)	alectinib hydrochloride, crizotinib, ceritinib		
ROS1 fusion genes		entrectinib		
MET exon14 skipping alterations		capmatinib hydrochloride hydrate		
NTRK1/2/3 fusion gene	Solid tumors	entrectinib		
BRCA1/2 alterations	Prostate cancer	olaparib		

Conference on FY2023.12 Financial Results

Abbreviations



AD	atopic dermatitis	LN	lupus nephritis
adj	adjuvant	LSP	Life Science Park
AE	adverse events	MIBC	muscle-invasive bladder cancer
API	active pharmaceutical ingredient	MM	multiple myeloma
aHUS	atypical hemolytic uremic syndrome	MOGAD	myelin oligodendrocyte glycoprotein antibody–associated disease
AIE	autoimmune encephalitis	nAMD	neovascular age-related macular degeneration
aNHL	aggressive B-cell non-Hodgkin lymphoma	NHI	national health insurance
ВС	breast cancer	NME	new molecular entity
bPoC	biology proof of concept	NMOSD	neuromyelitis optica spectrum disorder
BS	biosimilars	NSCLC	non-small cell lung cancer
СС	colorectal cancer	NSQ	non-squamous
CKDaP	Chronic kidney disease associated pruritus	PDS	port delivery system with ranibizumab
CLDN	Claudin	PE	primary endpoint
CPR	Chugai Pharmabody Research	PN	prurigo nodularis
CRC	colorectal cancer	PNH	paroxysmal nocturnal hemoglobinuria
CRS	cytokine release syndrome	PS	profit share
DMD	duchenne muscular dystrophy	QOL	quality of life
DME	diabetic macular edema	r/r	relapsed or refractory
eBC	early breast cancer	RED	reserch & ealy development
EC	esophageal cancer	ROY	royalty
EHA	European Hematology Association	RVO	retinal vein occlusion
ePoC	early proof of concept	SAE	severe adverse events
FL	follicular lymphoma	sc	subctaneous
FSHD	facioscapulohumeral muscular dystrophy	SCD	sickle cell disease
GLP	Good Laboratory Practice	SCLC	small cell lung cancer
gMG	generalized myasthenia gravis	SMA	spinal muscular atrophy
HCC	hepatocellular carcinoma	SSc-ILD	systemic sclerosis with interstitial lung disease
HNC	head and neck carcinoma	TED	thyroid eye disease
HR	human resources	UME	uveitic macular edema
IV	intravenous	T2D	type 2 diabetes
LGSOC	low-grade serous ovarian cancer	_	