Roche Group development pipeline

Marketed products development programmes

Roche Pharma global development programmes

Roche Pharma research and early development (pRED)

Genentech research and early development (gRED)

Spark



Changes to the development pipeline Q1 2024 update

New to phase I	New to phase II	New to phase III	New to registration
		2 Als: RG6058 tiragolumab + Tecentriq - NSCLC adj. RG7716 Vabysmo - myopic choriodial neovascularization (CNV)	<mark>1 AI (US):</mark> RG3625 TNKase - stroke
Removed from phase I	Removed from phase II	Removed from phase III	Approvals
4 NMEs: RG6526 camonsertib - solid tumors RG6185 belvarafenib + Cotellic ± T - solid tumors RG6286 NME - CRC RG6163 NME - psychiatric disorders		1 AI: RG6168 Enspryng - myasthenia gravis	2 AI (US): RG3648 Xolair - food allergy RG7853 Alecensa - ALK+ NSCLC adj.
Status as of April 17, 2024			



Roche Group development pipeline

Phase I (48 NMEs + 8 Als)

RG6026	Columvi monotherapy + combos	heme tumors	CHU	glypica
RG6058	tiragolumab combos	solid tumors	CHU	codritu
RG6076	englumafusp alfa combos	heme tumors	CHU	CD137
RG6114	inavolisib	solid tumors	CHU	RAS inh
RG6160	cevostamab	r/r multiple myeloma	CHU	SPYK04
RG6171	giredestrant monotherapy + combos	solid tumors	CHU	anti-CL
RG6194	runimotamab	breast cancer	CHU	ROSE12
RG6234	forimtamig monotherapy + combos	multiple myeloma	RG6107	PiaSky
RG6279	eciskafusp alfa ± T	solid tumors	RG6287	-
RG6292	vopikitug combos	solid tumors	RG6315	-
RG6323	efbalropoendekin alfa	heme & solid tumors	RG6382	-
	$(IL15/IL15Ra-Fc) \pm T$		RG6418*	selnofla
RG6330	divarasib monotherapy + combos	solid tumors	RG6421	TMEM1
RG6333	CD19 x CD28 + Columvi	r/r NHL	RG7828	Lunsum
RG6344	BRAF inhibitor (3)	solid tumors	CHU	anti-HL
RG6411	-	solid tumors	CHU	RAY121
RG6433	migoprotafib (SHP2i) combos	solid tumors	RG6006	zosurat
RG6440	anti-latent TGF-β1 (SOF10)	solid tumors	RG6436***	LepB in
RG6457	WRN covalent inhibitor	solid tumors	RG6449	HBsAg
RG6468	-	solid tumors	RG6640 ³	GLP-1/0
RG6512	FIXa x FX	Hemophilia	RG6652 ³	GLP-1 F
RG6524	DLL3 trispecific	solid tumors	RG6035	Brainsh
RG6537	AR degrader	mCRPC	RG6182	MAGL i
RG6538 ¹	P-BCMA-ALLO1	heme tumors	RG6289	gamma
RG6596 ²	HER2 TKI	HER2+ BC	RG6120	zifibano
RG6614	USP1 inhibitor	solid tumors	RG6209	-
RG7827	FAP-4-1BBL combos	solid tumors	RG6351	-
RG7828	Lunsumio monotherapy + combos	heme tumors	RG7921	-
			CHU	REVN24

Status as of April 17, 2024

U AI	3)	
HU	glypican-3 x CD3	solid tumors
HU	codrituzumab	HCC
HU	CD137 switch antibody	solid tumors
HU	RAS inhibitor	solid tumors
HU	SPYK04	solid tumors
HU	anti-CLDN6 trispecific	CLDN6+ solid tumors
HU	ROSE12	solid tumors
107	PiaSky (crovalimab)	lupus nephritis
287	-	immunology
315	-	fibrosis
382	-	SLE
418*	selnoflast	inflammation
421	TMEM16A potentiator	cystic fibrosis
/828	Lunsumio	SLE
HU	anti-HLA-DQ2.5 x gluten peptides	celiac disease
HU	RAY121	Immunology
6006	zosurabalpin	bacterial infections
136***	LepB inhibitor complicated u	rinary tract infection
6449	HBsAg MAb	chronic hepatitis B
640 ³	GLP-1/GIP RA (CT-388)	obesity +/- T2D
652 ³	GLP-1 RA (CT-996)	obesity +/- T2D
035	Brainshuttle™CD20	multiple sclerosis
182	MAGL inhibitor	multiple sclerosis
289	gamma-secretase modulator	Alzheimer's
5120	zifibancimig	nAMD
209	-	retinal disease
351	-	retinal disease
'921	-	RVO
HU	REVN24	acute diseases

Phase II (20 NMEs + 10 AIs)

	tiragolumab + T	NSCLC
RG6058	tiragolumab + T + chemo	NSCLC periadjuvant
	tiragolumab + T	1L PD-L1+ mSCCHN
RG6107	PiaSky (crovalimab)	sickle cell disease
RG6139	tobemstomig monotherapy + combos	solid tumors
RG6171	giredestrant	endometrial cancer
RG6180	autogene cevumeran	solid tumors
RG6357	dirloctogene samoparvovec	hemophilia A
RG6341	-	chronic cough
RG6536	vixarelimab	IPF/SSc-ILD
RG6631 ⁴	anti-TL1A	ulcerative colitis
RG6631 ⁴	anti-TL1A	Crohn's disease
RG7854/ RG6346/ RG6084**	ruzotolimod/xalnesiran/PDL1 LNA	HBV
RG6359	SPK-3006	Pompe disease
RG6615⁵	zilebesiran	hypertension
RG6641 ³	GLP-1/GIP RA (CT-868)	T1D with BMI ≥ 25
RG6042	tominersen	Huntington's
RG6102	trontinemab	Alzheimer's
RG6237	anti-latent myostatin + Evrysdi	SMA
1100207	anti-latent myostatin	FSHD
RG6356	Elevidys	0 to <4 year old DMD
RG6416	bepranemab	Alzheimer's
RG7816	alogabat	ASD
RG7935	prasinezumab	Parkinson's
RG6179	vamikibart	DME
RG6299 ⁶	ASO factor B	geographic atrophy
RG6501	OpRegen	geographic atrophy
CHU	anti-IL-8 recycling antibody	endometriosis

RG-No - Roche/Genentech; CHU - Chugai managed; ¹Poseida Therapeutics managed; ²co-development with Zion Pharma; ³Carmot Therapeutics managed; ⁴Telavant managed (TUSCANY-2 and TAHOE); ⁵Alnylam Pharmaceuticals managed; ⁶IONIS managed; T=Tecentriq; *also developed in neurology; **combination platform; *** moving forward with alternative LepB inhibitor (previously RG6319); RA=Receptor agonist

New Molecular Entity (NME) Additional Indication (AI) Oncology / Hematology Immunology Infectious Diseases Cardiovascular & Metabolism Neurology Ophthalmology Other 3



Roche Group development pipeline

Phase III (9 NMEs + 40 Als)

RG3502	Kadcyla + T	HER-2+ eBC high-risk	RG61
	Columvi + chemo	2L+ DLBCL	RG62
RG6026	Columvi + Polivy + R-CHP	1L DLBCL	
	Columvi	r/r MCL	
	tiragolumab + T	1L PD-L1 high NSCLC	RG71
	tiragolumab + T + chemo	1L esophageal cancer	
RG6058	tiragolumab + T locall	y advanced esophageal cancer	
	tiragolumab + T s	tage III unresectable 1L NSCLC	RG61
	tiragolumab + T + chemo	1L non-squamous NSCLC	
	tiragolumab + T	NSCLC adj	RG15
	tiragolumab + T + Avastin	1L HCC	RG61
RG6107	PiaSky (crovalimab)	aHUS	
RG6114	•	ılv. 1L HR+ PIK3CA-mut. mBC	RG63
	inavolisib + fulvestrant	post CDKi HR+ PIK3CA-mut. BC	RG78
	inavolisib + Phesgo	1L HER2+ PIK3CA-mut. mBC	
	giredestrant + palbociclib	1L ET sensitive ER+/HER2- mBC	RG61
RG6171	giredestrant	ER+ BC adj	RG61
100171	giredestrant + Phesgo	1L ER+/HER2+ BC	
	giredestrant + CDK4/6i	1L ET resistant ER+/HER2- BC	RG63
RG6330	divarasib	2L NSCLC	RG77
	Tecentriq + platinum chem		nu//
	Tecentriq + BCG	NMIBC, high-risk	
RG7446	Tecentriq + capecitabine c		
1107440	Tecentriq + Avastin	HCC adj	
	Tecentriq	ctDNA+ high-risk MIBC	
	Tecentriq + lurbinectedin	1L maintenance SCLC	
RG7601	Venclexta + azacitidine	1L MDS	
RG7828	Lunsumio + lenalidomide	2L+ FL	
1107020	Lunsumio + Polivy	2L+ DLBCL	

5149	astegolimab	COPD
5299	ASO factor B	IgA nephropathy
	Gazyva	lupus nephritis
	Gazyva	membranous nephropathy
7159	Gazyva	systemic lupus erythematosus
	Gazyva	childhood onset idiopathic nephrotic syndrome**
5152	Xofluza	influenza, pediatric (0-1 year)
5152	Xofluza	influenza direct transmission
1594	Ocrevus higher dose	RMS & PPMS
5168	Enspryng	MOG-AD
,100	Enspryng	autoimmune encephalitis
5356	Elevidys	DMD
7845	fenebrutinib	RMS
040	fenebrutinib	PPMS
5168	Enspryng	TED
5179	vamikibart	UME
	Susvimo	DME
5321	Susvimo	DR
	Susvimo	wAMD, 36-week
7716	Vabysmo	CNV

Registration US & EU (1 NME + 6 AIs)

RG6107*	PiaSky (crovalimab)	PNH
RG7446	Tecentriq SC ¹	all approved indications
RG7853	Alecensa ²	ALK+ NSCLC adj
RG1594	Ocrevus SC	RMS & PPMS
RG3625	TNKase ³	stroke
RG7716	Vabysmo ²	BRVO
NG7710	Vabysmo ²	CRVO

T=Tecentrig

*Approved in China Q1 2024 **also known as pediatric nephrotic syndrome (PNS) ¹Approved in EU, filed in US ²Approved in US, filed in EU ³Filed in US



Cardiovascular & Metabolism Neurology Ophthalmology Other



anti-latent myostatin +

Evrysdi

SMA

RG6237

giredestrant

endometrial cancer

RG6171

Expected regulatory submissions*

New Molecular Entities: Lead and additional indications

New Molecular Entity (NME) Additional Indication (AI) Oncology / Hematology Immunoloav Infectious Diseases

Cardiovascular & Metabolism Neurology Ophthalmology Other

*Filing timelines reflect the anticipated filing of a potential indication; projects shown are in phase II and phase III ✓ Indicates submission to health authorities has occurred Unless stated otherwise submissions are planned to occur in US and EU T=Tecentrig, RA=Receptor agonist ¹Telavant managed (TUSCANY-2 and TAHOE) ²IONIS managed ³Alnylam Pharmaceuticals managed ⁴Carmot Therapeutics managed

giredestrant + CDK4/6i anti-latent myostatin tiragolumab + T + chemo **RG6058 RG6237 RG6171** 1L ET resistant ER+/HER2-1L non-sq NSCLC FSHD BC tiragolumab + T autogene cevumeran Elevidys RG6058 **RG6180** RG6356 NSCLC adj solid tumors 0 to <4 year old DMD tiragolumab + T divarasib bepranemab **RG6058** RG6330 **RG6416** 1L PD-L1+ mSCCHN 2L NSCLC Alzheimer's tiragolumab+T+/-chemo ASO factor B alogabat **RG6058 RG7816** RG6299 NSCLC periadjuvant IgA nephropathy ASD tiragolumab + T + chemo NME prasinezumab tiragolumab+T+ Avastin **RG6058 RG7935 RG6058** RG6341 1L esophageal cancer (CN) 1L HCC chronic cough Parkinson's tiragolumab + T PiaSky (crovalimab) vixarelimab vamikibart **RG6058** locally adv esophageal **RG6107** RG6536 **RG6179 IPF & SSc-ILD** sickle cell disease DME cancer Inavolisib + fulvestrant PiaSky (crovalimab) **ASO** factor B anti-TL1A **RG6107 RG6299**² **RG6114** RG66311 post CDKi HR+ PIK3CA-mut. aHUS ulcerative colitis geographic atrophy BC Inavolisib + palbociclib + giredestrant + palbociclib inavolisib + Phesgo tiragolumab + T anti-TL1A Susvimo **RG6058** 1L ET sensitive ER+/HER2-**RG6321** fulvestrant **RG6171 RG6114** 1L HER2+ PIK3CA-mut. RG6631¹ 1L PD-L1 high NSCLC Crohn's disease wAMD. 36-week refill 1L HR+ PIK3CA-mut. mBC mBC mBC tiragolumab + T ruzotolimod/xalnesiran/ RG7854/ tobemstomig Elevidys fenebrutinib OpRegen **RG6058** Stage III unresectable 1L **RG7845 RG6139** RG6346/ PDL1LNA **RG6501** RMS & PPMS DMD (EU) solid tumors geographic atrophy HBV NSCLC RG6084 vamikibart Susvimo astegolimab giredestrant zilebesiran tominersen **RG6171 RG6179 RG6042** RG6615³ **RG6149** DME (US) COPD UME hypertension ER+ BC adi Huntington's Susvimo Susvimo Susvimo giredestrant + Phesgo **GLP-1/GIP RA (CT-868)** trontinemab RG6102 RG66414 RG6321 RG6171 RG6321 1L ER+/HER2+ BC T1D with BMI ≥ 25 DR (US) wAMD (EU) DME (EU) Alzheimer's 2025 2026 2027 and beyond

2024

RG6114

RG6356

RG6321

RG6321



Expected regulatory submissions*

Marketed products: Additional indications





Major pending approvals 2024

	US		EU		China		Japan-Chugai
RG7446	Tecentriq SC all approved indications Filed Nov 2022	RG6107	PiaSky (crovalimab) PNH Filed June 2023	RG7716	Vabysmo BRVO/CRVO Filed March 2023	RG7853	Alecensa ALK+ NSCLC adj Filed Dec 2023
RG6107	PiaSky (crovalimab) PNH Filed June 2023	RG7716	Vabysmo BRVO/CRVO Filed Aug 2023	RG1594	Ocrevus RMS & PPMS Filed June 2023	RG7916	Evrysdi SMA presymptomatic pediatric <2mo Filed Feb 2024
RG1594	Ocrevus SC RMS & PPMS Filed Nov 2023	RG1594	Ocrevus SC RMS & PPMS Filed Aug 2023	RG7853	Alecensa ALK+ NSCLC adj Filed Nov 2023	RG7446	Tecentriq Alveolar Soft Part Sarcoma Filed March 2024
		RG7853	Alecensa ALK+ NSCLC adj Filed Nov 2023	RG7828	Lunsumio 3L+ FL Filed Dec 2023	RG7828	Lunsumio 3L+ FL Filed March 2024
						RG99	CellCept SSc-ILD Filed March 2024

New Molecular Entity (NME) Additional Indication (AI) Oncology / Hematology Immunology Infectious Diseases





Major granted approvals 2024

	US		EU		China	J	lapan-Chugai
RG3648	Xolair Food allergy Feb 2024	RG7446	Tecentriq SC all approved indications Jan 2024	RG6107	PiaSky (crovalimab) PNH Feb 2024*	RG6107	PiaSky (crovalimab) PNH March 2024
RG7853	Alecensa ALK+ NSCLC adj April 2024	*First worldwide appoval			RG7716	Vabysmo BRVO/CRVO March 2024	





Roche Group development pipeline Marketed products development programmes Roche Pharma global development programmes Roche Pharma research and early development (pRED) Genentech research and early development (gRED) Spark



Hemlibra (emicizumab, RG6013)

Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients without inhibitors to factor VIII	Hemophilia A patients with and without inhibitors to Factor VIII, dosing every 4 weeks	
Phase/study	Phase III HAVEN 3	Phase III HAVEN 4	
# of patients	N=135	N=46	
Design	 Patients on FVIII episodic treatment prior to study entry: ARM A: Hemlibra prophylaxis QW ARM B: Hemlibra prophylaxis Q2W ARM C: Episodic FVIII treatment; switch to Hemlibra prophylaxis possible after 24 weeks Patients on FVIII prophylaxis prior to study entry: ARM D: Hemlibra prophylaxis QW 	 Part I: Pharmacokinetic run-in part (N=6); Hemlibra Q4W Part II: Expansion part (N=40); Hemlibra Q4W 	
Primary endpoint	 Number of bleeds over 24 weeks 	 Number of bleeds over 24 weeks 	
Status	 Study met primary and key secondary endpoints Q4 2017 FDA granted Breakthrough Therapy Designation April 2018 Data presented at WFH 2018 Filed in US (priority review) and EU in Q2 2018 Data published in <i>NEJM</i> 2018; 379: 811-822 	 Pharmacokinetic run-in data at ASH 2017 Positive interim analysis outcome reported Q4 2017 Data presented at WFH 2018 Interim data filed in US and EU in Q2 2018 Data published in <i>Lancet Haematology</i> 2019; 6(6):e295-e305 	
	 Approved in US Q4 2018 and EU Q1 2019 		
CT Identifier	NCT02847637	NCT03020160	

In collaboration with Chugai

ASH=American Society of Hematology; WFH=World Federation of Hemophilia; NEJM=New England Journal of Medicine



Hemlibra (emicizumab, RG6013)

Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients with and without inhibitors to Factor VIII	Hemophilia A mild to moderate patients without inhibitors to Factor VIII
Phase/study	Phase III HAVEN 5	Phase III HAVEN 6
# of patients	N=85	N=70
Design	 Patients with Hemophilia regardless of FVIII inhibitor status on prophylactic or episodic treatment prior to study entry: ARM A: Hemlibra prophylaxis QW ARM B: Hemlibra prophylaxis Q4W ARM C: No prophylaxis (control arm) 	 Patients with mild or moderate Hemophilia A without FVIII inhibitors Hemlibra QW (1.5mg/kg), Q2W (3.0mg/kg) or Q4W (6.0mg/kg) (patients preference)
Primary endpoint	 Number of bleeds over 24 weeks 	 Safety and efficacy
Status	 FPI Q2 2018 Recruitment completed Q1 2019 Filed in China Q2 2020 Approved in China Q2 2021 	 FPI Q1 2020, recruitment completed Q1 2021 Interim data presented at ASH 2021 and primary data presented at ISTH 2022 Filed in EU Q4 2021 Data presented at ASH 2022 Approved in EU for moderate Hemophilia A Q1 2023 Data published in <i>Lancet Haematology</i> 2023; 10(3) e168-e177
CT Identifier	NCT03315455	NCT04158648

In collaboration with Chugai



Alecensa (alectinib, RG7853)

New CNS-active inhibitor of anaplastic lymphoma kinase

Indication	Treatment-naïve ALK+ advanced NSCLC	Adjuvant ALK+ NSCLC
Phase/study	Phase III ALEX	Phase III ALINA
# of patients	N=286	N=257
Design	 ARM A: Alecensa 600mg BID ARM B: Crizotinib 250mg BID 	 ARM A: Alecensa 600mg BID ARM B: Platinum-based chemotherapy
Primary endpoint	 Progression-free survival 	 Disease-free survival
Status	 Data presented at ASCO 2017, 2018, ESMO 2017, 2018 and 2019 (final PFS and updated OS) Data published in <i>NEJM</i> 2017; 377:829-838 Approved in US Q4 2017 (priority review) and in EU Q4 2017 	 FPI Q3 2018 Recruitment completed Q4 2021 Study met it's primary endpoint Q3 2023 Primary data presented at ESMO 2023 Filed in EU, China and Japan Q4 2023 Approved in US Q2 2024 (priority review) Data published in <i>NEJM</i> 2024; 390:1265-12
CT Identifier	NCT02075840	NCT03456076

In collaboration with Chugai

ALK=anaplastic lymphoma kinase; CNS= Central nervous system; NSCLC=non-small cell lung cancer; OS=Overall survival, PFS=Progression-free survival; ASCO=American Society of Clinical Oncology; NEJM=New England Journal of Medicine; ESMO=European Society for Medical Oncology



Kadcyla (trastuzumab emtansine, RG3502)

First ADC for HER2-positive breast cancer

Indication	HER2-positive early breast cancer (BC) high-risk patients	HER2-positive early breast cancer (BC) high-risk patients	
Phase/study	Phase III KATHERINE	Phase III ASTEFANIA	
# of patients	N=1,484	N=1,700	
Design	 ARM A: Kadcyla 3.6mg/kg Q3W ARM B: Herceptin 	 ARM A: Kadcyla plus Tecentriq ARM B: Kadcyla plus placebo 	
Primary endpoint	 Invasive disease-free survival 	 Invasive disease-free survival 	
Status	 Stopped at pre-planned interim data analysis for efficacy Q4 2018 Data presented at SABCS 2018 BTD granted by FDA in Q1 2019 Filed in US (under RTOR) and EU Q1 2019 Approved in US Q2 2019 and in EU Q4 2019 Data published in <i>NEJM</i> 2019; 380:617-628 7-year data presented at SABCS 2023 	 FPI Q2 2021 	
CT Identifier	NCT01772472	NCT04873362	

In collaboration with ImmunoGen, Inc.

ADC=antibody drug conjugate; BTD=Breakthrough therapy designation; HER2=Human Epidermal growth factor Receptor 2; SABCS=San Antonio Breast Cancer Symposium; RTOR=Real time oncology review; NEJM=New England Journal of Medicine



Phesgo (pertuzumab/trastuzumab, RG6264)

FDC of Perjeta and Herceptin for subcutaneous administration

Indication	HER2-positive early breast cancer (BC)		
Phase/study	Phase III FeDeriCa	Phase II PHranceSCa	
# of patients	N=500	N=160	
Design	 Phesgo in combination with chemotherapy in neoadjuvant/adjuvant setting ARM A: Perjeta IV plus Herceptin IV plus chemotherapy ARM B: Phesgo plus chemotherapy 	 ARM A: Perjeta and Herceptin IV followed by Phesgo ARM B: Phesgo followed by IV 	
Primary endpoint	 Trough Serum Concentration (Ctrough) of Perjeta during cycle 7 	 Percentage of patients who preferred Phesgo 	
Status	 Primary endpoint met Q3 2019 Data presented at SABCS 2019 Data published in <i>Lancet Oncology</i> 2021; 22(1):85-97 	 Final analysis completed, 85% patients preferred Phesgo Data presented at ESMO 2020 Data published in <i>Eur J Cancer</i> 2021; 152:223-232 	
	 Filed in US Q4 2019 & in EU Q1 2020; Approved in US Q2 2020 and EU Q4 2020 		
CT Identifier	NCT03493854	NCT03674112	

SC with Halozyme's rHuPH20/ Halozyme's human hyaluronidase

FDC=Fixed-dose combination; Phesgo=FDC of Perjeta and Herceptin for SC administration; HER2=Human Epidermal growth factor Receptor 2, IV=intravenous; SC=Subcutaneous; SABCS=San Antonio Breast Cancer Symposium; Eur J Cancer=European Journal of Cancer; ESMO=European Society for Medical Oncology

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Anti-PD-L1 cancer immunotherapy – lung cancer

Indication	Adjuvant NSCLC	Periadjuvant NSCLC	
Phase/study	Phase III IMpower010	Phase III IMpower030	
# of patients	N=1,280	N=450	
Design	 Following adjuvant cisplatin-based chemotherapy ARM A: Tecentriq ARM B: Best supportive care 	 ARM A: Tecentriq plus platinum-based chemotherapy ARM B: Platinum-based chemotherapy 	
Primary endpoint	 Disease-free survival 	 Event-free survival 	
Status	 Recruitment completed Q3 2018 Study met primary endpoint Q1 2021 Data presented at ASCO, WCLC and ESMO 2021 Filed in US (priority review) and EU Q2 2021 Data published in <i>Lancet</i> 2021; 398(10308):1344-1357 Approved in US Q4 2021 and EU Q2 2022 	 FPI Q2 2018 Recruitment completed Q3 2021 	
CT Identifier	NCT02486718	NCT03456063	

NSCLC=non-small cell lung cancer; PD-L1=Programmed cell death-ligand 1; ASCO=American Society of Clinical Oncology; ESMO=European Society for Medical Oncology; WCLC=World Conference on Lung Cancer



Anti-PD-L1 cancer immunotherapy – lung cancer

Indication	1L maintenance extensive-stage SCLC	Stage IV NSCLC	
Phase/study	Phase III IMforte ¹	Phase Ib/III IMscin001 ²	
# of patients	N=450	N=371	
Design	 ARM A: Platinum-etoposide + Tecentriq followed by maintenance Tecentriq plus lurbinectedin ARM B: Platinum-etoposide + Tecentriq followed by maintenance Tecentriq 	 Phase Ib Dose finding, Tecentriq SC followed by Tecentriq IV Phase III 2L NSCLC non inferiority of Tecentriq SC vs Tecentriq IV 	
Primary endpoint	 Progression-free survival and overall survival 	 Observed concentration of Tecentriq in serum at cycle 1 	
Status	 FPI Q4 2021 Recruitment completed Jan 2024 	 FPI Phase Ib Q4 2018 and FPI Phase III Q4 2020 Recruitment completed Q1 2022 Study met its primary end point Q3 2022 Data presented at ESMO-IO 2022 Filed in US and EU Q4 2022 Data published in Ann. Oncol. 2023; 34(8):693-702 Approved in EU Jan 2024 	
CT Identifier	NCT05091567	NCT03735121	

¹In collaboration with Jazz Pharma, ²SC with Halozyme's rHuPH20/ Halozyme's human hyaluronidase

NSCLC=non-small cell lung cancer; PD-L1=Programmed cell death-ligand 1; SCLC=small cell lung cancer, SC=Subcutaneous, IV=Intravenous; ESMO-IO=European Society for Medical Oncology-Immuno-Oncology



Anti-PD-L1 cancer immunotherapy – urothelial carcinoma

Indication	High-risk non-muscle-invasive bladder cancer (NMIBC)	ctDNA+, high-risk muscle-invasive bladder cancer (MIBC)	
Phase/study	Phase III ALBAN	Phase III IMvigor011	
# of patients	N=516	N=495	
Design	 ARM A: BCG induction and maintenance ARM B: Tecentriq plus BCG induction and maintenance 	 ARM A: Tecentriq monotherapy ARM B: Placebo 	
Primary endpoint	 Recurrence-free survival 	Recurrence-free survival	
Status	 FPI Q4 2018 	• FPI Q2 2021	
CT Identifier	NCT03799835	NCT04660344	



Anti-PD-L1 cancer immunotherapy – hepatocellular carcinoma

Indication	Adjuvant hepatocellular carcinoma (HCC)	
Phase/study	Phase III IMbrave050	
# of patients Design	N=668 • ARM A: Tecentriq plus Avastin • ARM B: Active surveillance	
Primary endpoint	Recurrence-free survival	
Status	 FPI Q4 2019 Recruitment completed Q4 2021 Study met its primary endpoint Q1 2023 Data presented at AACR 2023 and ASCO 2023 (PROs) Data published in <i>Lancet</i> 2023; 402(10415):1835-1847 	
CT Identifier	NCT04102098	

PD-L1=Programmed cell death-ligand 1; AACR=American Association for Cancer Research; PROs=Patient-reported outcomes



Anti-PD-L1 cancer immunotherapy – breast cancer

Indication	Previously untreated metastatic triple negative breast cancer (TNBC)		
Phase/study	Phase III IMpassion130	Phase III IMpassion132	
# of patients	N=902	N=572	
Design	 ARM A: Tecentriq plus nab-paclitaxel ARM B: Placebo plus nab-paclitaxel 	 ARM A: Tecentriq plus capecitabine or carbo/gem ARM B: Placebo plus capecitabine or carbo/gem 	
Primary endpoint	 Progression-free survival and overall survival (co-primary endpoint) 	Overall survival	
Status	 Study met co-primary endpoint of PFS in both PD-L1+ and ITT populations Q3 2018 Primary PFS and interim OS data presented at ESMO 2018 and ASCO 2019 Data published in NEJM 2018; 379:2108-2121 US accelerated approval Q1 2019 - US indication voluntarily withdrawn Q3 2021 Approved in EU Q3 2019 Final OS presented at ESMO Asia 2020 	• FPI Q1 2018	
CT Identifier	NCT02425891	NCT03371017	

Carbo/gem=gemcitabine and carboplatin; ITT=Intention to treat; PD-L1=Programmed cell death-ligand 1; PFS=Progression-free survival; OS=Overall survival; ESMO=European Society for Medical Oncology; ASCO=American Society of Clinical Oncology; NEJM=New England Journal of Medicine



Anti-PD-L1 cancer immunotherapy – breast cancer

Indication	Neoadjuvant triple negative breast cancer (TNBC)	
Phase/study	Phase III IMpassion031	
# of patients		N=333
Design	 ARM A: Tecentriq plus nab-paclitaxel ARM B: Placebo plus nab-paclitaxel 	
Primary endpoint	 Percentage of participants with pathologic complete response 	
Status	 Study met primary endpoint Q2 2020 Data presented at ESMO 2020 Data published in <i>Lancet</i> 2020;396 (10257):1090-1100 Filed in EU Q4 2020 - application withdrawn Q3 2021 	
CT Identifier		NCT03197935



Venclexta (venetoclax, RG7601)

Novel small molecule Bcl-2 selective inhibitor – chronic lymphocytic leukemia

Indication	Untreated chronic lymphocytic leukemia (CLL) patients with coexisting medical conditions	Untreated fit chronic lymphocytic leukemia (CLL) patients	
Phase/study	Phase III CLL14	Phase III CristaLLo	
# of patients	N=445	N=165	
Design	 ARM A: Venclexta plus Gazyva ARM B: Chlorambucil plus Gazyva ARM B: Chlorambucil plus Gazyva ARM B: Fludarabine plus cyclophosphamide plus bendamustine plus rituximab 		
Primary endpoint	 Progression-free survival 	 MRD negativity rate in peripheral blood at 15 months 	
Status	 Study met primary endpoint Q4 2018 BTD granted by FDA Q1 2019 Filed in US (under RTOR) Q1 2019 and EU Q2 2019 Data presented at ASCO 2019, ASH 2019, 2020 and EHA 2021, 2022; 6-year data presented at EHA and ICML 2023 Data published in NEJM 2019; 380:2225-2236 Approved US Q2 2019 and EU Q1 2020 	 FPI Q2 2020 Recruitment completed Q1 2023 	
CT Identifier	NCT02242942	NCT04285567	

Joint project with AbbVie, in collaboration with The Walter and Eliza Hall Institute

Bcl-2=B-cell lymphoma 2; BTD=Breakthrough therapy designation; MRD=Minimal Residual Disease; ASH=American Society of Hematology; ASCO=American Society of Clinical Oncology; EHA=European Hematology Association; RTOR=Real time oncology review; NEJM=New England Journal of Medicine



Venclexta (venetoclax, RG7601)

Novel small molecule Bcl-2 selective inhibitor – myelodysplastic syndromes

Indication	Newly diagnosed higher-risk myelodysplastic syndromes (MDS)	
Phase/study	Phase III VERONA	
# of patients	N=500	
Design	 ARM A: Venclexta plus azacitidine ARM B: Placebo plus azacitidine 	
Primary endpoint	 Overall survival 	
Status	 FPI Q4 2020 Recruitment completed Q3 2022 	
CT Identifier	NCT04401748	

Oncology



Polivy (polatuzumab vedotin, RG7596)

ADC targeting CD79b to treat B cell malignancies

Indication	1L DLBCL
Phase/study	Phase III POLARIX
# of patients	N=879
Design	ARM A: Polivy plus R-CHP ARM B: R-CHOP
Primary endpoint	 Progression-free survival
Status	 Data presented at ASH 2021 and 2022 Filed in EU, Japan and China Q4 2021 and in the US Q3 2022 Published in <i>NEJM</i> 2022 27;386(4):351-363 Approved in EU Q2 2022, Japan Q3 2022, China Q1 2023 and US April 2023
CT Identifier	NCT03274492

In collaboration with Seagen Inc.

DLBCL=diffuse large B cell lymphoma; R-CHP=Rituxan, cyclophosphamide, hydroxydoxorubicin, prednisone; R-CHOP=Rituxan, cyclophosphamide, doxorubicin, vincristine, and prednisone; ASH=American Society of Hematology, NEJM=New England Journal of Medicine



Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	3L+ FL, 3L+ DLBCL & other relapsed or refractory NHL	1L DLBCL	Relapsed or refractory DLBCL
Phase/study	Phase I/II	Phase Ib/II	Phase Ib/II
# of patients	N=713	N=117	N=235
Design	 Dose escalation of Lunsumio monotherapy and in combination with Tecentriq Expansion cohorts for r/r FL, r/r DLBCL and SC in r/r NHL 	 Lunsumio plus CHOP Lunsumio plus CHP plus Polivy Lunsumio plus CHP-Polivy vs Rituximab plus CHP-Polivy 	 Dose escalation of Lunsumio plus Polivy ARM A: Lunsumio SC plus Polivy ARM B: Rituximab plus Polivy
Primary endpoint	 Safety, tolerability, dose/schedule, PK and response rates 	 Safety/tolerability and response 	 Safety/tolerability and response
Status	 Data in r/r NHL presented at ASH 2018, 2019, and in r/r FL at ASH 2020, 2021 and 2022 BTD granted by FDA Q2 2020 Filed in EU and rolling submission in US Q4 2021; Filed in US (priority review) Q2 2022 Approved in EU Q2 2022 and US Q4 2022 DLBCL data published in <i>J. Clin. Oncol.</i> 2022; 40(5)481-491 and <i>Blood Advances</i> 2023; 7 (17): 4926-4935 FL data published in the <i>Lancet Oncology</i> 2022;23(8):1055-1065 3-year data in r/r FL presented at ASH 2023 	 FPI Q1 2019 Recruitment completed Q2 2021 Data for Lunsumio plus CHOP presented at ASH 2020 Data published in <i>Blood Advances</i> 2023; 7 (20): 6055–6065. 	 FPI Q3 2018 Recruitment completed Q1 2023 Initial data presented at ASCO 2021 and ASH 2021, 2022 Data presented at ASH 2023 Data published in <i>Nature Medicine</i> 2023; 30, 229–239
CT Identifier	NCT02500407	NCT03677141	NCT03671018

FL=follicular lymphoma; DLBCL=diffuse large B cell lymphoma; r/r=relapsed/refractory; NHL=non-Hodgkin's lymphoma; R=Rituximab; SC=subcutaneous; CHOP=cyclophosphamide, doxorubicin, vincristine, and prednisone; CHP=cyclophosphamide, doxorubicin, and prednisone; PK=Pharmacokinetics; BTD=Breakthrough Therapy Designation; ASH=American Society of Hematology; ASCO=American Society of Clinical Oncology

Oncology



Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	2L+ SCT ineligible DLBCL	
Phase/study	Phase III SUNMO	
# of patients	N=222	
Design	 ARM A: Lunsumio plus Polivy ARM B: R + GemOx 	
Primary endpoint	 Progression-free survival 	
Status	 FPI Q2 2022 	
CT Identifier	NCT05171647	

DLBCL=diffuse large B cell lymphoma; SCT=stem cell transplant; R=Rituxan/MabThera; GemOx=Gemcitabin und Oxaliplatin



Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	1L DLBCL & 2L DLBCL following 1L induction	FL
Phase/study	Phase I/II	Phase Ib/II
# of patients	N=187	N=183
Design	 Cohort A: Lunsumio monotherapy (after a response to prior systemic chemotherapy) Cohort B: Lunsumio monotherapy (1L treatment in elderly/frail) Cohort C: Lunsumio SC plus Polivy in 1L elderly/unfit 	Non-Randomized: • Lunsumio plus lenalidomide in R/R FL safety run-in for phase III • Lunsumio SC plus lenalidomide in 1L FL Randomized • Lunsumio SC plus lenalidomide vs Lunsumio IV plus lenalidomide
Primary endpoint	 Safety/tolerability and response 	 Safety/tolerability and response
Status	 FPI Q2 2019 - Cohort B FPI Q3 2019 - Cohort A FPI Q1 2021 - Cohort C Recruitment completed Q1 2023 Cohort B presented at ASH 2020 (Cohort B) and ASH 2022 Cohort C presented at ASH 2023 	 FPI Q3 2020 Initial data presented at ASH 2021 and 2022 Recruitment completed Q2 2023
CT Identifier	NCT03677154	NCT04246086

FL=follicular lymphoma; DLBCL=diffuse large B cell lymphoma; SC=subcutaneous; ASH=American Society of Hematology



Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	2L+ FL	Relapsed or refractory CLL
Phase/study	Phase III CELESTIMO	Phase Ib/II
# of patients	N=412	N=8
Design	 ARM A: Lunsumio plus lenalidomide ARM B: Rituximab plus lenalidomide 	 Lunsumio monotherapy (3L+ CLL) Lunsumio + venetoclax Lunsumio + BTKi
Primary endpoint	 Progression-free survival 	 Safety, dose-limiting toxicity and RPTD
Status	 FPI Q4 2021 	 FPI Q1 2022
CT Identifier	NCT04712097	NCT05091424

FL=follicular lymphoma; r/r=relapsed/refractory; RPTD=Recommended Phase II Dose; CLL=Chronic lymphocytic leukemia



Columvi (glofitamab, CD20-TCB, RG6026)

Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	Relapsed or refractory Non-Hodgkin's lymphoma (NHL)		
Phase/study	Phase I	Phase Ib	Phase I
# of patients	N=700	N=140	N=18-36
Design	 Cohort 1: Single-agent dose escalation study Initial dose escalation Expansion cohort in r/r DLBCL Expansion cohort in r/r FL All patients will receive pretreatment with a single dose of Gazyva (1000mg) Cohort 2: Columvi plus Gazyva (i.e. continuous treatment with Gazyva) 	 Dose escalation and expansion ARM A: Columvi plus Tecentriq ARM B: Columvi plus Polivy 	Columvi SC Part 1 dose escalation
Primary endpoint	 Efficacy, safety, tolerability and PK 	 Safety 	 Safety
Status	 Data presented at ASH 2018, 2020, 2021, 2022, ICML 2019, 2021, EHA 2020, 2021, 2022 and ASCO 2021, 2022 and 2023 Data published in <i>J Clin Oncology</i> 2021; 39:18:1959-1970 and <i>NEJM</i> 2022; 387:2220- 2231 Filed in EU Q2 2022 and US Q4 2022 Approved in Canada Q1, US Q2 and EU Q3 2023 Follow up data in r/r DLBCL presented at ASH 2023 	 ARM A: FPI Q2 2018 ARM B: FPI Q4 2020 Recruitment completed Q2 2022 Data presented at ASH 2019, 2021 	• FPI Q3 2021
CT Identifier	NCT03075696	NCT03533283	ISRCTN17975931

DLBCL=diffuse large B cell lymphoma; FL=Follicular lymphoma; r/r=Relapsed or refractory; SC=subcutenous; PK=Pharmacokinetics; ASCO=American Society of Clinical Oncology; ASH=American Society of Hematology; EHA=European Hematology Association; ICML=International Conference on Malignant Lymphoma; NEJM=New England Journal of Medicine



Columvi (glofitamab, CD20-TCB, RG6026)

Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	Non-Hodgkin's lymphoma (NHL)	2L+ SCT-ineligible DLBCL
Phase/study	Phase Ib	Phase III STARGLO
# of patients	Part I: 15-60 Part II: ~66-104	N=270
Design	 Part I: Dose-finding for the combination of Columvi plus G/R-CHOP in r/r indolent NHL Part II: Dose expansion Columvi plus G/R-CHOP or R-CHOP in 1L DLBCL Part III: Columvi plus R-CHP plus Polivy 	 ARM A: Columvi plus gemcitabine and oxaliplatin, followed by up to 4 cycles of Columvi monotherapy ARM B: Rituximab in combination with gemcitabine and oxaliplatin A single dose of Gazyva will be administered 7 days prior to the first dose of Columvi
Primary endpoint	- Safety	Overall survival
Status	 Part I: FPI Q1 2018 Part II: FPI Q1 2021 Recruitment completed Q1 2023 Data presented at ASH 2021, 2022, 2023 and ASCO 2023 	 FPI Q1 2021 Recruitment completed Q1 2023 Study met primary endpoint April 2024
CT Identifier	NCT03467373	NCT04408638

DLBCL=diffuse large B cell lymphoma; SCT=stem cell transplant; CHOP=cyclophosphamide, doxorubicin, vincristine and prednisone; R=Rituxan/MabThera; G=Gazyva; NHL=Non-Hodgkin's lymphoma; ctDNA=circulating tumor DNA; ASH=American Society of Hematology; EOT PET-CR=End of treatment PET-complete response rate



Columvi (glofitamab, CD20-TCB, RG6026)

Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	2L+ SCT-eligible DLBCL	2L+ SCT-ineligible DLBCL	1L DLBCL fit (IPI 2-5)
Phase/study	Phase Ib	Phase Ib	Phase III SKYGLO
# of patients	N=40	N=112	N=1130
Design	 Columvi plus R-ICE (single-arm study) 	 ARM A: Columvi IV plus CELMoD (CC-220 and CC-99282) ARM B: Lunsumio SC plus CELMoD (CC-220 and CC-99282) 	 ARM A: Columvi plus Polivy plus R-CHP ARM B: Polivy plus R-CHP
Primary endpoint	 Objective response rate within 3 cycles 	 Safety, DLT, RPTD 	 Progression-free survival
Status	 FPI Q4 2022 	 FPI Q4 2022 	 FPI Q4 2023
CT Identifier	NCT05364424	NCT05169515	NCT06047080

DLBCL=diffuse large B cell lymphoma; DLT=Dose-limiting toxicity, RPTD=Recommended Phase II Dose; R-ICE= Rituxan plus ifosfamide, carboplatin, and etoposide; IV=Intravenous; SC=Subcutaneous; ; R-CHP=Rituxan, cyclophosphamide, hydroxydoxorubicin, prednisone; IPI=International prognostic index



Columvi (glofitamab, CD20-TCB, RG6026) Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	Relapsed or refractory mantle cell lymphoma (MCL)
Phase/study	Phase III GLOBRYTE
# of patients	N=182
Design	 ARM A: Columvi monotherapy ARM B: Bendamustine + rituximab or rituximab + lenalidomide
Primary endpoint	 Progression-free survival by IRC
Status	 FPI Q4 2023
CT Identifier	NCT06084936

Oncology



Ocrevus (ocrelizumab, RG1594)

Humanized monoclonal antibody selectively targeting CD20+ B cells

Indication	Primary progressive multiple sclerosis (PPMS)	
Phase/study	Phase IIIb ORATORIO-HAND	
# of patients	N ~ 1,000	
Design	 120-week treatment period: ARM A: Ocrevus 600mg IV Q24W ARM B: Placebo 	
Primary endpoint	 Time to upper limb disability progression confirmed for at least 12 weeks 	
Status	 FPI Q3 2019 	
CT Identifier	NCT04035005	



Ocrevus (ocrelizumab, RG1594)

Humanized monoclonal antibody selectively targeting CD20+ B cells

Indication	Primary progressive multiple sclerosis (PPMS)	Relapsing multiple sclerosis (RMS)	PPMS & RMS
Phase/study	Phase IIIb GAVOTTE	Phase IIIb MUSETTE	Phase III Ocarina II ¹
# of patients	N ~ 699	N ~ 786	N ~ 232
Design	 120-week treatment period: ARM A: Ocrevus 600mg IV Q24W ARM B: Ocrevus 1200mg if BW <75kg or 1800mg if BW ≥75kg Q24W 	 120-week treatment period: ARM A: Ocrevus 600mg IV Q24W ARM B: Ocrevus 1200mg if BW <75kg or 1800mg if BW ≥75kg Q24W 	 ARM A: Ocrevus IV ARM B: Ocrevus SC
Primary endpoint	 Superiority of Ocrevus higher dose versus approved dose on cCDP 	 Superiority of Ocrevus higher dose versus approved dose on cCDP 	 Serum Ocrevus area under the concentration- time curve (AUCW1-12) at week 12
Status	 FPI Q4 2020 Recruitment completed Q2 2023 	 FPI Q4 2020 Recruitment completed Q4 2021 	 FPI Q2 2022 Recruitment completed Q4 2022 Primary endpoint met July 2023 Data presented at ECTRIMS 2023 Filed in EU Q3 2023 and US Q4 2023
CT Identifier	NCT04548999	NCT04544436	NCT05232825

Neurology



Evrysdi (risdiplam, RG7916)

Oral SMN2 splicing modifier

Indication	Spinal muscular atrophy (SMA)		
Phase/study	Phase II/III Phase II/III Phase II FIREFISH SUNFISH JEWELFISH		Phase II JEWELFISH
# of patients	N=21 (Part 1), 41 (Part 2)	N=51 (Part 1), 180 (Part 2)	N=174
Design	Infants with type 1 SMA • Part I (dose-finding): ≥4 weeks • Part II (confirmatory): 24 months	 Adult & pediatric patients with type 2 or 3 SMA: Part I (dose-finding): At least 12 weeks Part II (confirmatory): 24 months 	 Adult and pediatric patients with previously treated SMA type 1, 2 and 3
Primary endpoint	 Safety, tolerability, PK/PD and efficacy 	 Safety, tolerability, PK/PD and efficacy 	 Safety, tolerability, PK/PD
Status	 Part I 12-month data presented at AAN, CureSMA and EAN 2019; 16-month data presented at WMS 2019 Part II 1-year data presented at AAN 2020, Part I 2-year data at WMS 2020 Part I data published in <i>NEJM</i> 2021;384:915- 923 Part II 2-year data presented at AAN 2021 Part II 1-year data published in <i>NEJM</i> 2021;385:427-435 3-year data presented at EPNS 2022 and 4-year data presented at Cure SMA and EAN 2023 	 Part I 12-month data presented at AAN, CureSMA and EAN 2019; 16-month data presented at WMS 2019 Part II 1-year data presented at SMA Europe 2020, 2-year data at MDA 2021, 3-year data at MDA 2022 and 4-year data at MDA and EAN 2023 Part II 1-year data published in <i>Lancet</i> <i>Neurology</i>, 2022; 21 (1) 42-52 Part II 2-year data published in J. Neurol. 2023; 270(5):2531-2546 	 Data presented at WMS 2017, AAN 2018, WMS 2018, CureSMA 2019, WMS 2019, CureSMA 2020 and 2021 2-year data presented at WMS 2022
	 ODD granted by FDA Q1 2017 and EU Q1 2019, PRIME designation in Q4 2018 Approved in US Q3 2020 and EU Q1 2021 		
CT Identifier In collaboration with PTC Ther	NCT02913482 apeutics and SMA Foundation	NCT02908685	NCT03032172

SMA=Spinal muscular atrophy; SMN=survival motor neuron; PK/PD=Pharmacokinetics/Pharmacodynamics; PRIME=priority medicines; AAN=American Academy of Neurology; WMS=World Muscle Society; EAN=European Academy of Neurology; NEJM=New England Journal of Medicine; MDA=Muscular Dystrophy Association; CureSMA=Annual SMA Conference; EPNS=European Paediatric Neurology Society; ODD=Orphan drug designation

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Evrysdi (risdiplam, RG7916) Oral SMN2 splicing modifier

Indication	Spinal muscular atrophy (SMA)
Phase/study	Phase II RAINBOWFISH
# of patients	N=25
Design	 Infants aged from birth to 6 weeks who have been genetically diagnosed with SMA but are not yet presenting with symptoms
Primary endpoint	 Proportion of participants with two copies of the SMN2 gene and baseline CMAP>=1.5 millivolt who are sitting without support
Status	 FPI Q3 2019 Recruitment completed Q1 2022 Initial data presented at CureSMA, WMS 2021, MDA and WMS 2022 Primary data presented at WMS 2023 Filed in US and EU Q4 2021 Approved in US Q2 2022 and EU Q3 2023
CT Identifier	NCT03779334

In collaboration with PTC Therapeutics and SMA Foundation

SMN=survival motor neuron; CMAP=compound muscle action potential; WMS=World Muscle Society; CureSMA=Annual SMA Conference; MDA=Muscular Dystrophy Association

Neurology



Enspryng (satralizumab, RG6168, SA237)

Anti-IL-6 receptor humanized monoclonal antibody

Indication	Neuromyelitis optica spectrum disorder (NMOSD)		
Phase/study	Phase III SAkuraStar	Phase III SAkuraSky	
# of patients	N=95	N=83	
Design	Enspryng monotherapy: • ARM A: Enspryng 120mg SC monthly • ARM B: Placebo SC monthly	 Add-on therapy of Enspryng: ARM A: Enspryng 120mg SC monthly ARM B: Placebo SC monthly Both arms on top of baseline therapies: azathioprine, mycophenolate mofetil or oral corticosteroids 	
Primary endpoint	 Efficacy (time to first relapse), safety and PK/PD 	 Efficacy (time to first relapse), safety and PK/PD 	
Status	 Primary endpoint met Q4 2018 Data presented at ECTRIMS 2019 Published in <i>Lancet Neurology</i> 2020; 19(5): 402-412 	 Primary endpoint met Q3 2018 Data presented at ECTRIMS 2018 and AAN 2019 Published in <i>NEJM</i> 2019; 381:2114-2124 	
Status	 BTD granted by FDA Q4 2018 Filed in EU Q3 2019; US acceptance of filing Q4 2019 Approved in US Q3 2020 and EU Q2 2021 		
CT Identifier	NCT02073279	NCT02028884	

Trials managed by Chugai (Roche opted-in)

BTD=Breakthrough therapy designation; PK/PD=Pharmacokinetics/Pharmacodynamics; SC=Subcutaneous; ECTRIMS=European Committee for Treatment and Research in Multiple Sclerosis; AAN=American Academy of Neurology; NEJM=New England Journal of Medicine


Enspryng (satralizumab, RG6168, SA237)

Anti-IL-6 receptor humanized monoclonal antibody

Indication	Generalised myasthenia gravis (MG)	Myelin oligodendrocyte glycoprotein antibody disease (MOG-AD)	Autoimmune encephalitis (AIE)
Phase/study	Phase III LUMINESCE	Phase III METEOROID	Phase III CIELO
# of patients	N=186	N=152	N=152
Design	 ARM A: Enspryng plus standard of care ARM B: Placebo plus standard of care 	 ARM A: Enspryng at weeks 0, 2, 4 (loading doses) and maintenance doses Q4W ARM B: Placebo 	 ARM A: Enspryng at weeks 0, 2, 4 (loading doses) and maintenance doses Q4W ARM B: Placebo
Primary endpoint	 Mean change from baseline in total MG-ADL score at week 24 in AChR+ population 	 Time from randomization to the first occurrence of a MOG-AD relapse 	 Efficacy (proportion of participants with mRS score improvement ≥ 1 from baseline and no use of rescue therapy at week 24) and safety
Status	 ODD granted in US Q1 2021 FPI Q4 2021 Recruitment completed Q3 2023 Primary endpoint met Q1 2024; no filing planned Primary data presented at AAN 2024 	 FPI Q3 2022 ODD granted by FDA in Q4 2021 	 FPI Q3 2022 ODD granted for NMDAR AIE in US Q3 22
CT Identifier	NCT04963270	NCT05271409	NCT05503264

In collaboration with Chugai

MG-ADL= Myasthenia Gravis Activities of Daily Living; AChR=Acetylcholine receptor; MOG-AD=Myelin Oligodendrocyte Glycoprotein Antibody Disease, mRS=Modified Rankin Scale; AIE=Autoimmune encephalitis; NMDAR AIE= Anti-N-Methyl-D-Aspartic Acid Receptor Autoimmune Encephalitis; ODD=Orphan drug designation

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Gazyva (obinutuzumab, RG7159)

Immunology development program

Indication	Lupus nephritis		Membranous nephropathy
Phase/study	Phase II NOBILITY	Phase III REGENCY	Phase III MAJESTY
# of patients	N=126	N=252	N=140
Design	 ARM A: Gazyva 1000mg IV plus MMF / mycophenolic acid ARM B: Placebo IV plus MMF/ mycophenolic acid 	 ARM A: Gazyva 1000mg IV (6 doses through Week 52) plus MFF ARM B: Gazyva 1000 mg IV (5 doses through Week 52) plus MFF ARM C: Placebo IV plus MFF 	 ARM A: Gazyva 1000mg IV on top of reninangiotensin inhibitors ARM B: Tacrolimus treatment for 12 months
Primary endpoint	 Percentage of participants who achieve complete renal response (CRR) 	 Percentage of participants who achieve complete renal response (CRR) 	 Percentage of patients who achieve complete remission at week 104
Status	 Primary endpoint met Q2 2019 BTD granted by the FDA Q3 2019 Data presented at ASN and ACR 2019 Published in Ann Rheum Dis 2022; 81(1):100-107 	 FPI Q3 2020 Recruitment completed Q1 2023 	 FPI Q2 2021 Recruitment completed Q4 2023
CT Identifier	NCT02550652	NCT04221477	NCT04629248

In collaboration with Biogen

BTD=Breakthrough therapy designation; IV=Intravenous; ASN=American Society of Nephrology; ACR=American College of Rheumatology; MMF=mycophenolate mofetil



Gazyva (obinutuzumab, RG7159) Immunology development program

Indication	Systemic lupus erythematosus (SLE)	Childhood onset idiopathic nephrotic syndrome*
Phase/study	Phase III ALLEGORY	Phase III INShore
# of patients	N=300	N=80
Design	 ARM A: Gazyva 1000mg IV on Day 1 and Weeks 2, 24 and 26. ARM B: Placebo IV 	 ARM A: Gazyva plus oral steroids ARM B: Mycophenolate mofetil (MMF) plus oral steroids
Primary endpoint	 Percentage of participants who achieve Systemic Lupus Erythematosus Responder Index (SRI) at week 52 	 Percentage of participants with sustained complete remission at 1 year
Status	 FPI Q4 2021 	 FPI Q1 2023
CT Identifier	NCT04963296	NCT05627557



Lunsumio (mosunetuzumab, CD20 x CD3, RG7828)

Bispecific anti-CD20/CD3 antibody engaging T and B cells simultaneously

Indication	Systemic lupus erythematosus (SLE)
Phase/study	Phase I
# of patients	N=50
Design	 ARM A: Mosunetuzumab SC on either Day 1 or on Days 1 and 8 ARM B: Fractionated (divided) dose of mosunetuzumab SC on Days 1 and 8
Primary endpoint	• Safety
Status	 FPI Q1 2022
CT Identifier	NCT05155345



Xolair (omalizumab, RG3648)

Humanized monoclonal antibody that selectively binds to IgE

Indication	Food allergy
Phase/study	Phase III OUtMATCH ¹
# of patients	N=180
Design	 Xolair by SC injection either Q2W or Q4W for 16 to 20 weeks
Primary endpoint	 Number of participants who successfully consume ≥600mg of peanut protein without dose-limiting symptoms
Status	 FPI Q3 2019 Study met primary endpoint Q3 2023 Filed in US Q3 2023* Priority review granted by FDA Q4 2023 Approved US Q1 2024 Published in NEJM 2024; 390(10):889-899
CT Identifier	NCT03881696

In collaboration with Novartis; 1 Sponsor of the study is the National Institute of Allergy and Infectious Diseases (NIAID) *Filing acceptance Q4 2023; IgE=Immunoglobulin E; SC=Subcutaneous



Susvimo (PDS, RG6321)

First eye implant to achieve sustained delivery of a biologic medicine

Indication	Wet age-related macular degeneration (wAMD)		
Phase/study	Phase III Archway	Phase II+III extension Portal	Phase IIIb Velodrome
# of patients	N=418	N=1,000	N=442
Design	 ARM A: PDS Q24W ARM B: Intravitreal ranibizumab Q4W 	 Patients from LADDER or Archway receive refills of ranibizumab Q24W (patients without the PDS will receive the PDS and subsequent refills) Patients from Velodrome, who don't meet the criteria for randomization to receive refills Q36W at week 24, receive refills of ranibizumab q24w Patients who complete or withdraw from Velodrome, receive refills of ranibizumab q24w 	
Primary endpoint	 Change in BCVA from baseline at the average of week 36 and week 40 	 Safety and long term efficacy 	 Change in BCVA from baseline averaged over weeks 68 and 72
Status	 Study met primary endpoint Q2 2020 Data presented at ASRS 2020, 44/48 week data at Angiogenesis 2021 and 2-year data at Angiogenesis 2022 Filed in US (PRIME) and EU Q2 2021 Approved in US Q4 2021 	• FPI Q3 2018	 FPI Q3 2021
CT Identifier	NCT03677934	NCT03683251	NCT04657289

BCVA=best corrected visual acuity; wAMD=wet age-related macular degeneration; ASRS=American Society of Retinal Specialists; PDS=Port Delivery System with ranibizumab; PRIME=Priority review



Susvimo (PDS, RG6321)

First eye implant to achieve sustained delivery of a biologic medicine

Indication	Diabetic macular edema (DME)	Diabetic retinopathy (DR) without center-involved diabetic macular edema (DME)
Phase/study	Phase III Pagoda	Phase III Pavilion
# of patients	N=634	N=174
Design	 ARM A: Intravitreal ranibizumab (X4) followed by PDS with ranibizumab Q24W ARM B: Intravitreal ranibizumab Q4W until PDS is received 	 ARM A: Intravitreal ranibizumab (X2) followed by PDS implant (refill Q36W) ARM B: Q4W comprehensive clinical monitoring (with IVT ranibizumab as needed) until participants receive PDS (refill Q36W)
Primary endpoint	 Change in BCVA from baseline at the average of week 60 and week 64 	 Percentage of participants with a ≥2-step improvement from baseline on the ETDRS-DRSS at Week 52
Status	 FPI Q3 2019 Recruitment completed Q2 2021 Study met its primary endpoint Q4 2022 Data presented at Angiogenesis 2023 	 FPI Q3 2020 Recruitment completed Q3 2021 Study met its primary endpoint Q4 2022 Data presented at Angiogenesis 2023
CT Identifier	NCT04108156	NCT04503551

BCVA=best corrected visual acuity; ETDRS=Early Treatment Diabetic Retinopathy Study; DRSS=Diabetic Retinopathy Severity Scale; PDS=Port Delivery System with ranibizumab



Bispecific antibody for the eye which targets and inhibits two signalling pathways (Ang-2 and VEGF-A)

Indication	Center-involving diabetic macular edema (CI-DME)	
Phase/study	Phase III YOSEMITE	Phase III RHINE
# of patients	N=940	N=951
Design	 ARM A: Faricimab Q8W ARM B: Faricimab PTI up to Q16W ARM C: Aflibercept, Q8W 	 ARM A: Faricimab Q8W ARM B: Faricimab PTI up to Q16W ARM C: Aflibercept, Q8W
Primary endpoint	 Change from baseline in BCVA at 1 year 	 Change from baseline in BCVA at 1 year
	 Study met primary endpoint Q4 2020 Data presented at Angiogenesis 2021 	 Study met primary endpoint Q4 2020 Data presented at Angiogenesis 2021
Status	 Filed in US and EU Q2 2021 Published in the Lancet 2022 19;399(10326):741-755. 2-year data presented at Angiogenesis 2022 Approved in US Q1 2022 and EU Q3 2022 Post-hoc data indicating fast retinal drying presented at ARVO 2023 	
CT Identifier	NCT03622580	NCT03622593

Ang-2=Angiopoietin-2; VEGF=Vascular endothelial growth factor; PTI=Personalized Treatment Interval; BCVA=best corrected visual acuity, ARVO=Association for Research in Vision and Ophthalmology



Bispecific antibody for the eye which targets and inhibits two signalling pathways (Ang-2 and VEGF-A)

Indication	Wet age related macular degeneration (wAMD)	
Phase/study	Phase III TENAYA	Phase III LUCERNE
# of patients	N=671	N=658
Design	 ARM A: Faricimab 6.0mg Q16W flexible after 4 IDs ARM B: Aflibercept 2.0mg Q8W after 3 IDs 	 ARM A: Faricimab 6.0mg Q16W flexible after 4 IDs ARM B: Aflibercept 2.0mg Q8W after 3 IDs
Primary endpoint	 Change from baseline in BCVA week 40, 44 & 48 	 Change from baseline in BCVA week 40, 44 & 48
	 Study met primary endpoint Q1 2021 Data presented at Angiogenesis 2021 	 Study met primary endpoint Q1 2021 Data presented at Angiogenesis 2021
Status	 Filed in US and EU Q2 2021 Published in Lancet 2022 Feb 19;399(10326):729-740 Approved in US Q1 2022 and EU Q3 2022 2-year data presented at ASRS 2022 Post-hoc data indicating fast retinal drying presented at ARVO 2023 	
CT Identifier	NCT03823287	NCT03823300

BCVA=best corrected visual acuity; Ang-2=Angiopoietin-2; VEGF=Vascular endothelial growth factor; IDs=initiating doses; ASRS=American Society of Retina Specialists, ARVO=Association for Research in Vision and Ophthalmology



Bispecific antibody for the eye which targets and inhibits two signalling pathways (Ang-2 and VEGF-A)

Indication	Macular edema (ME) secondary to branch retinal vein occlusion (RVO)	Macular edema (ME) secondary to central retinal vein occlusion (RVO)
Phase/study	Phase III BALATON	Phase III COMINO
# of patients	N=570	N=750
Design	 ARM A: Faricimab, Q4W/PTI ARM B: Aflibercept, Q4W 	 ARM A: Faricimab, Q4W/PTI ARM B: Aflibercept, Q4W
Primary endpoint	 Change from baseline in BCVA at week 24 	 Change from baseline in BCVA at week 24
Status	 FPI Q1 2021 Recruitment completed Q1 2022 Study met its primary endpoint Q4 2022 Data presented at Angiogenesis 2023 Filed in US Q2 2023 and EU Q3 2023 Approved in US Q4 2023 	 FPI Q1 2021 Recruitment completed Q1 2022 Study met its primary endpoint Q4 2022 Data presented at Angiogenesis 2023 Filed in US Q2 2023 and EU Q3 2023 Approved in US Q4 2023
CT Identifier	NCT04740905	NCT04740931

PTI=Personalized Treatment Interval; BCVA=best corrected visual acuity; Ang-2=Angiopoietin-2; VEGF=Vascular endothelial growth factor



Bispecific antibody for the eye which targets and inhibits two signalling pathways (Ang-2 and VEGF-A)

Indication	Myopic choriodial neovascularization (CNV)
Phase/study	Phase III POYANG
# of patients	n=280
Design	 ARM A: Faricimab 6.0 mg Q4W PRN ARM B: Ranibizumab 0.5 mg Q4W PRN
Primary endpoint	 Change from Baseline in Best-Corrected Visual Acuity (BCVA) Averaged Over Weeks 4, 8, and 12
Status	 FPI Q1 2024
CT Identifier	• NCT06176352



Enspryng (satralizumab, RG6168, SA237)

Anti-IL-6 receptor humanized monoclonal antibody

Indication	Thyroid eye disease	
Phase/study	Phase III SatraGo-1	Phase III SatraGo-2
# of patients	N=120	N=120
Design	 ARM A: Satralizumab at weeks 0, 2, 4 (loading doses) and maintenance doses Q4W ARM B: Placebo 	 ARM A: Satralizumab at weeks 0, 2, 4 (loading doses) and maintenance doses Q4W ARM B: Placebo
Primary endpoint	 Proportion of participants with active disease achieving ≥ 2 mm reduction in proptosis from baseline (Day 1) at week 24 in the study eye, provided there is no deterioration of proptosis (≥ 2mm increase) in the fellow eye. 	Proportion of participants with active disease achieving ≥ 2 mm reduction in proptosis from baseline (Day 1) at week 24 in the study eye, provided there is no deterioration of proptosis (≥ 2mm increase) in the fellow eye.
Status	 FPI Q4 2023 	FPI Q4 2023
CT Identifier	NCT05987423	NCT06106828



Xofluza (baloxavir marboxil, RG6152, S-033188)

Small molecule, novel CAP-dependent endonuclease inhibitor

Indication	Influenza		
Phase/study	Phase III miniSTONE 1 (0-1 year old)	Phase III miniSTONE 2 (1- <12 years old)	Phase IIIb CENTERSTONE
# of patients	N=30	N=176	N=3,160
Design	Healthy pediatric patients from birth to <1 year with influenza-like symptoms receive Xofluza on Day 1	Healthy pediatric patients 1 to <12 years of age with influenza-like symptoms • ARM A: Xofluza • ARM B: Tamiflu	 Reduction of direct transmission of influenza from otherwise healthy patients to household contacts ARM A: Xofluza ARM B: Placebo
Primary endpoint	 Safety 	 Safety 	 Percentage of household contacts who are PCR-positive for influenza by day 5 post randomization of index patients
Status	 FPI Q1 2019 Recruitment completed Q3 2023 	 Primary endpoint met Q2 2019 Data presented at OPTIONS X 2019 Filed in US Q1 2020 and EU Q4 2021 Data published in <i>Pediatric Infectious Disease</i> 2020 Aug;39(8):700-705 Approved in the US (age 5 years and older) Q3 2022, EU Jan 2023 and China (age 5 years and older) Q1 2023 	• FPI Q4 2019
CT Identifier	NCT03653364	NCT03629184	NCT03969212

Roche Group development pipeline Marketed products development programmes Roche Pharma global development programmes Roche Pharma research and early development (pRED) Genentech research and early development (gRED) Spark



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	1L NSCLC PD-L1 TPS>50%	Stage III unresectable 1L NSCLC
Phase/study	Phase III SKYSCRAPER-01	Phase III SKYSCRAPER-03
# of patients	N=500-560	N=800
Design	 ARM A: Tiragolumab plus Tecentriq ARM B: Placebo plus Tecentriq 	 ARM A: Tiragolumab plus Tecentriq for up to 12 months ARM B: Durvalumab for up to 12 months
Primary endpoint	 Overall survival and progression-free survival 	 Progression-free survival
Status	 FPI Q1 2020 Recruitment completed Q3 2021 Study did not meet one of its primary endpoints, PFS, Q2 2022 	 FPI Q3 2020 Recruitment completed Q2 2023
CT Identifier	NCT04294810	NCT04513925

Oncology



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	Neoadjuvant and adjuvant NSCLC	1L non-squamous NSCLC	Adjuvant NSCLC
Phase/study	Phase II SKYSCRAPER-05	Phase III SKYSCRAPER-06	Phase III SKYSCRAPER-15
# of patients	N=82	N=540	n=1150
Design	 ARM A: (PD-L1 high) neoadjuvant tiragolumab plus Tecentriq followed by adjuvant tiragolumab plus Tecentriq or adjuvant chemotherapy ARM B: (PD-L1 all-comers) neoadjuvant tiragolumab plus Tecentriq plus chemo followed by adjuvant tiragolumab plus Tecentriq 	 ARM A: Tiragolumab plus Tecentriq plus pemetrexed plus chemotherapy followed by maintenance tiragolumab plus Tecentriq plus pemetrexed ARM B: Placebo plus pembrolizumab plus pemetrexed plus chemotherapy followed by maintenance placebo plus pembrolizumab plus pemetrexed 	 ARM A: Tiragolumab + Tecentriq ARM B: Tecentriq + Placebo
Primary endpoint	 Pathologic complete response, major pathological response and safety 	 Objective response rate, progression-free survival and overall survival 	 INV-DFS in PD-L1≥50% INV-DFS in PD-L1≥1%
Status	 FPI Q2 2021 	 FPI Q4 2020 	 FPI Q1 2024
CT Identifier	NCT04832854	NCT04619797	NCT06267001

Oncology



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	Locally advanced esophageal cancer (EC)	1L esophageal cancer (EC)	1L recurrent/metastatic PD-L1 positive squamous cell head and neck carcinoma (SCCHN)
Phase/study	Phase III SKYSCRAPER-07	Phase III SKYSCRAPER-08	Phase II SKYSCRAPER-09
# of patients	N=750	N=500	N=120
Design	 ARM A: Tiragolumab plus Tecentriq ARM B: Tecentriq plus placebo ARM C: Placebo plus placebo 	 ARM A: Tiragolumab plus Tecentriq plus cisplatin and paclitaxel ARM B: Placebo plus placebo plus cisplatin and paclitaxel 	 ARM A: Tiragolumab plus Tecentriq ARM B: Tecentriq plus placebo
Primary endpoint	 Progression-free survival (A vs C) Overall survival (A vs C, hierarchical, B vs C hierarchical) 	 Overall survival and progression-free survival 	Objective response rate
Status	 FPI Q3 2020 Recruitment completed Q3 2023 	 FPI Q4 2020 Recruitment completed Q4 2021 Study met its primary endpoints of OS and PFS in Q1 2024 Data presented at ASCO GI 2024 	 FPI Q1 2021 Recruitment completed Q2 2022
CT Identifier	NCT04543617	NCT04540211	NCT04665843



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	Locally advanced, recurrent or metastatic solid tumors	1L HCC
Phase/study	Phase II SKYSCRAPER-11	Phase III SKYSCRAPER-14
# of patients	N=60	N=650
Design	 Tiragolumab plus Tecentriq IV FDC 	 ARM A: Tecentriq plus Avastin plus tiragolumab ARM B: Tecentriq plus Avastin plus placebo
Primary endpoint	 Safety 	 Progression-free survival (INV=Investigator-assessed); Overall survival
Status	 FPI Q2 2023 	 FPI Q3 2023
CT Identifier	NCT05661578	NCT05904886



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	Solid tumors	NSCLC
Phase/study	Phase I	Phase II CITYSCAPE
# of patients	N=540	N=135
Design	 Phase la: Dose escalation and expansion of tiragolumab Phase lb: Dose escalation and expansion of tiragolumab in combination with Tecentriq and/or other anti-cancer therapies 	 ARM A: Tecentriq plus tiragolumab ARM B: Tecentriq monotherapy
Primary endpoint	 Safety, tolerability, PK variability and preliminary efficacy 	 Overall response rate and progression-free survival
Status	Data presented at AACR 2020	 Data presented at ASCO 2020 and WCLC and ESMO IO 2021 BTD granted by FDA Q4 2020 Data published in <i>Lancet Oncol</i> 2022; 23(6):781-792
CT Identifier	NCT02794571	NCT03563716

BTD=Breakthrough therapy designation; PK=Pharmacokinetics; ASCO=American Society of Clinical Oncology; AACR=American Association for Cancer Research; WCLC=World Conference on Lung Cancer; ESMO IO=European Society for Medical Oncology - Immuno-Oncology



Inavolisib (RG6114, GDC-0077)

A potent, orally available, and selective PI3K α inhibitor

Indication	PIK3CA-mutant HR-positive metastatic breast cancer (mBC)	post CDKi HR-positive PIK3CA-mutant breast cancer	PIK3CA mutant solid tumors and metastatic ER+ HER2-negative breast cancer
Phase/study	Phase III INAVO120	Phase III INAVO121	Phase I
# of patients	N=400	N=400	N=256
Design	 ARM A: Inavolisib plus palbociclib plus fulvestrant ARM B: Placebo plus palbociclib plus fulvestrant 	 ARM A: Inavolisib plus fulvestrant ARM B: alpelisib plus fulvestrant 	 Monotherapy and in combination with standard of care (letrozole; letrozole plus palbociclib; fulvestrant) Stage 1: Dose escalation Stage 2: Dose expansion
Primary endpoint	 Progression-free survival 	 Progression-free survival 	 Safety, tolerability and pharmacokinetics
Status	 FPI Q1 2020 Recruitment completed Q3 2023 Study met its primary endpoint of PFS Q4 2023 Data presented at SABCS 2023 	 FPI Q2 2023 	 FPI Q4 2016 Preclinical/molecule discovery data presented at AACR 2017 Data presented at SABCS 2019, 2020 and 2021
CT Identifier	NCT04191499	NCT05646862	NCT03006172

ER=Estrogen receptor; HR=Hormone receptor; HER2=Human Epidermal growth factor Receptor 2; PI3K=Phosphoinositide 3-Kinase; AACR=American Association for Cancer Research; SABCS=San Antonio Breast Cancer Symposium; CDKi= Cyclindependent kinase inhibitor



Inavolisib (RG6114, GDC-0077)

A potent, orally available, and selective PI3K α inhibitor

Indication	1L HER2-positive PIK3CA mutant metastatic breast cancer (mBC)
Phase/study	Phase III INAVO122
# of patients	N=230
Design	 ARM A: Inavolisib plus Phesgo after induction therapy with Phesgo + taxane ARM B: Placebo plus Phesgo after induction therapy with Phesgo + taxane
Primary endpoint	 Progression-free survival
Status	 FPI Q3 2023
CT Identifier	NCT05894239



Giredestrant (SERD (3), RG6171, GDC-9545)

A selective estrogen receptor degrader or downregulator

Indication	ER+ HER2-negative metastatic breast cancer (mBC)	ER+ HER2-negative Stage I-III operable breast cancer (BC)	Neoadjuvant ER-positive breast cancer (BC)
Phase/study	Phase I	Phase I	Phase II coopERA Breast Cancer
# of patients	N=181	N=75	N=221
Design	 Dose escalation and expansion at RPTD Giredestrant monotherapy and in combination with palbociclib and/or LHRH agonist 	 Open-label, pre-operative administration Dose escalation 	 ARM A: Giredestrant followed by giredestrant plus palbociclib ARM B: Anastrazole followed by anastrazole plus palbociclib
Primary endpoint	 Safety 	 Safety, tolerability and PK/PD 	 Safety, tolerability and PK/PD
Status	 FPI Q4 2017 Data presented at SABCS 2019, 2021 and ASCO 2020, 2021 	 FPI Q3 2019 Data presented at ASCO 2021 	 FPI Q3 2020 Data presented at ESMO and SABCS 2021; ASCO 2022 Data (biomarker subgroup analysis) presented at ESMO 2022 Data published in Lancet Oncology 2023; 24(9): 1029-41
CT Identifier	NCT03332797	NCT03916744	NCT04436744

ER=Estrogen receptor; HER2=Human Epidermal growth factor Receptor; RPTD=Recommended phase II dose; LHRH=Luteinizing hormone-releasing hormone; PK/PD=Pharmacokinetics/Pharmacodynamics; SABCS=San Antonio Breast Cancer Symposium; ASCO=American Society of Clinical Oncology



Giredestrant (SERD (3), RG6171, GDC-9545)

A selective estrogen receptor degrader or downregulator

Indication	1L ER-positive metastatic breast cancer (mBC)	Adjuvant ER-positive breast cancer (BC)
Phase/study	Phase III persevERA Breast Cancer	Phase III lidERA Breast Cancer
# of patients	N=978	N=4,100
Design	 ARM A: Giredestrant plus palbociclib ARM B: Letrozole plus palbociclib 	 ARM A: Giredestrant monotherapy ARM B: Tamoxifen or aromatase inhibitor
Primary endpoint	 Progression-free survival 	 Invasive disease-free survival
Status	 FPI Q4 2020 Recruitment completed Q1 2023 	 FPI Q3 2021
CT Identifier	NCT04546009	NCT04961996



Giredestrant (SERD (3), RG6171, GDC-9545)

A selective estrogen receptor degrader or downregulator

Indication	1L ER-positive/HER2-positive breast cancer (BC)	Grade 1 endometrial cancer	ET resistant ER+/HER2-negative breast cancer (BC)
Phase/study	Phase III heredERA	Phase II endomERA	Phase III pionERA
# of patients	N=812	N=45	N=1050
Design	 Induction Phesgo plus taxane followed by maintenance with either: ARM A: Giredestrant plus Phesgo ARM B: Phesgo 	 Giredestrant once a day (QD) on days 1 to 28 of each 28-day cycle for 6 cycles 	 ARM A: Giredestrant plus CDK4/6i ARM B: Fulvestrant plus CDK4/6i
Primary endpoint	 Progression-free survival 	 Percentage of participants who have regression by 6 months 	 Progression-free survival in ESR1m and ITT
Status	 FPI Q2 2022 	 FPI Q2 2023 	 FPI Q4 2023
CT Identifier	NCT05296798	NCT05634499	NCT06065748



Divarasib (KRAS G12C inhibitor, RG6330, GDC-6036)

A potent, orally available, and selective inhibitor of the KRAS G12C mutant protein

Indication	Advanced or metastatic solid tumors with a KRAS G12C mutation	2L NSCLC	2L, 1L metastatic colorectal cancer (mCRC)
Phase/study	Phase I	Phase II/III B-FAST*	Phase Ib INTRINSIC
# of patients	N=438	Modular design	Modular design
Design	Monotherapy and combinations of divarasib with other anti-cancer therapies	 Cohort G (KRAS G12C) ARM A: divarasib ARM B: Docetaxel 	 Single arm studies: Cohort E (1L+CRC): divarasib + cetuximab + FOLFOX Cohort F (2L+CRC): divarasib + cetuximab Cohort G (1L+CRC): divarasib + cetuximab + FOLFIRI
Primary endpoint	• Safety	 Progression-free survival 	• Safety
Status	 FPI Q3 2020 Data presented at WCLC 2022, ESMO 2022 Data published in <i>NEJM</i> 2023 24;389(8):710-721 	 BTD granted by FDA Q3 2022 FPI Q4 2022 	 FPI Q1 2023
CT Identifier	NCT04449874	NCT03178552	NCT04929223

*Only cohorts with active recruitment shown; NSCLC=Non-small cell lung cancer; WCLC=World Conference on Lung Cancer; ESMO=European Society for Medical Oncology; BTD=Breakthrough therapy designation, CRC=Colorectal cancer



Divarasib (KRAS G12C inhibitor, RG6330, GDC-6036)

A potent, orally available, and selective inhibitor of the KRAS G12C mutant protein

Indication	1L NSCLC
Phase/study	Phase Ib KRASCENDO 170
# of patients	N=60
Design	 Cohort A: Combination of divarasib plus pembrolizumab (PD-L1+ NSCLC) Cohort B: Combination of divarasib plus pembrolizumab plus carboplatin/cisplatin plus pemetrexed
Primary endpoint	 Safety, tolerability
Status	 Cohort A: FPI Q2 2023 Cohort B: FPI Q1 2024
CT Identifier	NCT05789082

Oncology



Indication	Paroxysmal nocturnal hemoglobinuria (PNH)	Paroxysmal nocturnal hemoglobinuria (PNH) patients switching from a C5 inhibitor
Phase/study	Phase I/II COMPOSER	Phase III COMMODORE 1
# of patients	N=59	N=89 (ARMs A/B)
Design	 Healthy volunteers and treatment naïve and pretreated patients with PNH: Part I: Single ascending dose study in healthy subjects Part II: Intra-patient single ascending dose study in PNH patients Part III: Multiple-dose study in PNH patients Part IV: Dose confirmation in PNH patients 	 ARM A: Crovalimab ARM B: Eculizumab ARM C: Patients switching to PiaSky (crovalimab) from ravulizumab, higher than labeled doses of eculizumab & C5 SNP patients (descriptive- arm)
Primary endpoint	 Safety, PK, PD 	 Safety
Status	 Nonclinical data published in Scientific Reports 2017 Apr; 7(1):1080 Data presented for Part 2 and 3 at ASH 2018 and 2019 Published in <i>Blood</i> 2020; 135 (12): 912–920 	 FPI Q3 2020 Study results in Q1 2023 supported the favorable benefit-risk profile of crovalimab, as seen in the pivotal COMMODORE 2 study Data presented at EHA 2023 Filed in US and EU Q2 2023
CT Identifier	NCT03157635	NCT04432584



A humanized monoclonal antibody against complement C5

Indication	Paroxysmal nocturnal hemoglobinuria (PNH) C5 inhibitor naive patients	Paroxysmal nocturnal hemoglobinuria (PNH) C5 inhibitor naive patients (China only)
Phase/study	Phase III COMMODORE 2	Phase III COMMODORE 3
# of patients	N=204	N=51
Design	 ARM A: Crovalimab ARM B: Eculizumab 	 Crovalimab loading dose IV on Day 1, followed by weekly crovalimab SC doses for 4 weeks
Primary endpoint	 Non-inferiority of crovalimab compared to eculizumab: % patients with transfusion avoidance from baseline through week 25 % patients with haemolysis control, as measured by LDH <= 1.5ULN from week 5-25 	 Percentage of patients with transfusion avoidance from baseline through week 25 Mean percentage of participants with hemolysis control (week 5 through week 25)
Status	 FPI Q4 2020 Recruitment completed Q2 2022 Study met its primary endpoint Q1 2023 Data presented at EHA 2023 Filed in US and EU Q2 2023 	 FPI Q1 2021; Recruitment completed Q3 2021 Study met its co-primary endpoints Q1 2022 Data presented at ASH 2022 Published in Am J Hematol 2023;98(9):1407-1414 First global approval in China Q1 2024
CT Identifier	NCT04434092	NCT04654468

In collaboration with Chugai

LDH=Lactate Dehydrogenase; ULN=Upper Limit of Normal; IV=Intravenous; SC=Subcutaneous, ASH=American Society of Hematology

Oncology



Indication	Atypical hemolytic uremic syndrome (aHUS) study 1 - adults	Atypical hemolytic uremic syndrome (aHUS) study 2 - paediatrics
Phase/study	Phase III COMMUTE-a	Phase III COMMUTE-p
# of patients	N=90	N=35
Design	 Single-arm study of aHUS patients Cohort 1: not previously treated with C5i Cohort 2: switching from C5i Cohort 3: known C5 polymorphism 	 Single-arm study of aHUS patients Cohort 1: not previously treated with C5i Cohort 2: switching from C5i ≤18y/o Cohort 3: previously treated with C5i (includes participants with known C5 polymorphism)
Primary endpoint	 Cohort 1+3: proportion of patients with complete TMA response anytime between baseline and week 25 Cohort 2: proportion of patients with maintained TMA control from baseline through week 25 	 Cohort 1: proportion of patients with complete TMA response anytime between baseline and week 25 Cohort 2: proportion of patients with maintained TMA control from baseline through week 25
Status	 FPI Q4 2021 	 FPI Q4 2021
CT Identifier	NCT04861259	NCT04958265



Indication	Sickle cell disease (SCD) acute treatment	Sickle cell disease (SCD) chronic VOC prevention
Phase/study	Phase Ib CROSSWALK-a	Phase IIa CROSSWALK-c
# of patients	N=30	N=90
Design	 ARM A: Crovalimab ARM B: Placebo 	 ARM A: Crovalimab ARM B: Placebo
Primary endpoint	 Safety 	 VOC rate, up to 48 weeks
Status	 FPI Q1 2022 	 FPI Q1 2022
CT Identifier	NCT04912869	NCT05075824



Indication	Lupus nephritis (LN)
Phase/study	Phase I
# of patients	N=15
Design	 Single-arm study of patients with active class III, IV, or V lupus nephritis and urine protein-to-creatinine ratio >=1.5 g/g All patients to receive crovalimab IV loading dose and subsequent crovalimab SC q1w (Day 1, Week 1,2 and 3) followed by corvalimab SC Q4W
Primary endpoint	 PK, safety
Status	 FPI Q1 2023
CT Identifier	ISRCTN12809537



Astegolimab (RG6149, Anti-ST2) A monoclonal antibody that selective binds to ST2

Indication	Chronic obstructive pulmonary disease (COPD)		
Phase/study	Phase II COPD-ST2OP	Phase IIb ALIENTO	Phase III ARNASA
# of patients	N=81	N=1,290	N=1,290
Design	 Astegolimab SC 490mg Q4W for 48 weeks 	 ARM A: SC astegolimab Q2W ARM B: SC astegolimab Q4W ARM C: SC placebo Q2W 	 ARM A: SC astegolimab Q2W ARM B: SC astegolimab Q4W ARM C: SC placebo Q2W
Primary endpoint	 Number of moderate to severe exacerbation 	 Annualized rate of moderate and severe COPD exacerbations over the 52-week treatment period 	 Annualized rate of moderate and severe COPD exacerbations over the 52-week treatment period
Status	 Published in Lancet Respir Med 2022;10(5):469-477 	 FPI Q4 2021 	 FPI Q1 2023
CT Identifier	NCT03615040	NCT05037929	NCT05595642

In collaboration with Amgen

COPD=Chronic obstructive pulmonary disease, SC=Subcutaneous



ASO factor B (RG6299)

Antisense oligonucleotide that targets factor B

Indication	IgA nephropathy (IgAN)		Geographic atrophy (GA)
Phase/study	Phase II*	Phase III IMAGINATION	Phase II* GOLDEN STUDY
# of patients	N=25	N=428	N=330
Design	 ASO factor B SC at week 1 following Q4W dosing through week 25 Optional 48-week extension (Q4W) 	 ARM A: ASO factor B SC at week 1, 3, 5 following Q4W dosing for 104 weeks ARM B: Placebo 	 ARM A: Stage 1: ASO factor B SC at 1 of 3 dose levels Q4W up to week 45 Stage 2: dose cohort expansion ARM B: Placebo
Primary endpoint	 % reduction in 24-hour urine protein excretion at week 29 	 Change in UPCR at week 37 from baseline 	 Absolute change from baseline in the GA area at week 49
Status	• FPI Q2 2020	 FPI Q3 2023 	 FPI Q2 2019
CT Identifier	NCT04014335	NCT05797610	NCT03815825

In collaboration with IONIS

*Study run by IONIS, GA=Geographic atrophy; UPCR=Urine protein-to-creatinine ratio; SC=Subcutaneous; ASO=Antisense oligonucleotide



Vamikibart (anti-IL-6; RG6179)

A monoclonal antibody that potently binds interleukin-6 (IL-6) cytokine

Indication	Diabetic macular edema (DME) and Uveitic macular edema (UME)	Diabetic macular edema (DME)	
Phase/study	Phase I DOVETAIL	Phase II BARDENAS	Phase II ALLUVIUM
# of patients	N=90	N=210-230	N=360-400
Design	 Part I: Multiple ascending dose study of intravitreal monotherapy Part II: monotherapy and in combination with anti-VEGF 	 ARM A: Anti-IL-6 plus ranibizumab ARM B: Ranibizumab plus sham control 	 Arm A: 0.25 mg anti-IL-6 Q8W Arm B: 1.0 mg anti-IL-6 Q8W Arm C: 1.0 mg anti-IL-6 Q4W Arm D: 0.5 mg ranibizumab Q4W
Primary endpoint	 Safety, tolerability, PK 	 Mean change from baseline in BCVA averaged over week 44 and week 48 	 Mean change from baseline in BCVA averaged over week 44 and week 48
Status	 FPI Q3 2019 Data presentation at ARVO 2023 	FPI Q4 2021Recruitment completed Q2 2023	FPI Q4 2021Recruitment completed Q4 2023
CT Identifier		NCT05151744	NCT05151731



Vamikibart (anti-IL-6; RG6179)

A monoclonal antibody that potently binds interleukin-6 (IL-6) cytokine

Indication	Uveitic macular edema (UME)	
Phase/study	Phase III MEERKAT	Phase III SANDCAT
# of patients	N=225	N=225
Design	 ARM A: Anti-IL-6 low-dose Q4W to week 12, followed by PRN ARM B: Anti-IL-6 high-dose Q4W to week 12, followed by PRN ARM C: Sham control Q4W to week 12, followed by PRN 	 ARM A: Anti-IL-6 low-dose Q4W to week 12, followed by PRN ARM B: Anti-IL-6 high-dose Q4W to week 12, followed by PRN ARM C: Sham control Q4W to week 12, followed by PRN
Primary endpoint	 Proportion of participants with ≥ 15 letter improvement from baseline in BCVA at week 16 	 Proportion of participants with ≥ 15 letter improvement from baseline in BCVA at week 16
Status	 FPI Q1 2023 	 FPI Q1 2023
CT Identifier	NCT05642312	NCT05642325



Elevidys (delandistrogene moxeparvovec, SRP-9001, RG6356) rAAVrh74.MHCK7.Micro-dystrophin gene therapy

Indication	Duchenne muscular dystrophy (DMD)
Phase/study	Phase II ENVOL
# of patients	N=21
Design	 Open label single arm study in 0 to <4 year old DMD boys who will receive a single intravenous (IV) infusion of Elevidys on Day 1, separated into 4 cohorts: Cohort A: ~ 10 participants who are 3 years of age Cohort B: ~ 4 participants who are 2 years of age Cohort C: ~ 4 participants who are > 6 months to < 2 years of age Cohort D: ~ 3 participants who are <= 6 months of age
Primary endpoint	 Safety
Status	 FPI Q4 2023
CT Identifier	


Tominersen (RG6042, HTT ASO)

Antisense oligonucleotide (ASO) targeting human HTT mRNA

Indication	Huntington's disease
Phase/study	Phase II GENERATION HD2
# of patients	N=360
Design	 Patients aged 25 to 50 years with prodromal (very early subtle signs of HD) or early manifest HD ARM A: Tominersen 60mg Q16W via a lumbar puncture ARM B: Tominersen 100mg Q16W via a lumbar puncture ARM C: Placebo Q16W via a lumbar puncture
Primary endpoint	 Safety, biomarkers and efficacy
Status	 FPI Q1 2023
CT Identifier	NCT05686551



Fenebrutinib (RG7845, GCD-0853)

Highly selective and reversible (noncovalent) bruton tyrosine kinase

Indication	Primary progressive multiple sclerosis (PPMS)	Relapsing multip	le sclerosis (RMS)
Phase/study	Phase III FENtrepid	Phase III FENhance 1	Phase III FENhance 2
# of patients	N=985	N=736	N=751
Design	 ARM A: Fenebrutinib twice daily oral ARM B: Ocrevus 2x300mg IV Q24W 	 ARM A: Fenebrutinib twice daily oral ARM B: Teriflunomide once daily oral 	 ARM A: Fenebrutinib twice daily oral ARM B: Teriflunomide once daily oral
Primary endpoint	 Time to onset of cCDP12 	 Time to onset of cCDP12 and annualized relapse rate 	 Time to onset of cCDP12 and annualized relapse rate
Status	 FPI Q4 2020 Recruitment completed Q2 2023 	 FPI Q1 2021 Recruitment completed Q1 2024 	 FPI Q1 2021 Recruitment completed Q4 2023
CT Identifier	NCT04544449	NCT04586010	NCT04586023



Fenebrutinib (RG7845, GCD-0853)

Highly selective and reversible (noncovalent) bruton tyrosine kinase

Indication	Relapsing multiple sclerosis (RMS)
Phase/study	Phase II (Biomarker study) FENopta
# of patients	N=109
Design	 ARM A: Fenebrutinib ARM B: Placebo
Primary endpoint	 Total number of new gadolinium-enhancing T1 lesions observed on MRI scans of the brain at 12 weeks
Status	Data presented at EAN and ECTRIMS 2023
CT Identifier	NCT05119569

Neurology



Anti-latent myostatin (RG6237, GYM329)

Recycling and antigen-sweeping monoclonal anti-latent myostatin antibody

Indication	Facioscapulohumeral Muscular Dystrophy (FSHD)	Spinal muscular atrophy (SMA)	Obesity
Phase/study	Phase II MANOEUVRE	Phase II/III MANATEE ¹	Phase Ib
# of patients	N=48	N=180	N=30-36
Design	 ARM A: 4-week pre-treatment to collect baseline movement data with a wearable device, followed by anti-latent myostatin ARM B: Placebo 	 ARM A: Part I: GYM329 plus Evrysdi for 24 weeks, followed by GYM329 plus Evrysdi for 72 weeks Part II: GYM329 plus Evrysdi for 72 weeks ARM B: Placebo plus Evrysdi 	 Cohort A (n=15-18): Single dose 50mg SC Cohort B (n=15-18): Multiple dosing 100mg SC Q4W week plus loading dose for first 3 doses
Primary endpoint	 Percent change in contractile muscle volume of quadriceps femoris muscles by MRI at week 52 and safety 	 Change from baseline in RHS score after week 72 of treatment Safety, PK/PD and muscle biomarkers 	 PK/PD, tolerability, safety
Status	 FPI Q1 2023 	 ODD granted by FDA in Q4 2021 for GYM329 FPI Part I ambulatory cohort Q2 2022; non- ambulatory cohort July 2023 	 FPI expected Q2 2024
CT Identifier	NCT05548556	NCT05115110	

¹ In collaboration with PTC Therapeutics and SMA Foundation

PK/PD=Pharmacokinetics/Pharmacodynamics; ODD=Orphan drug designation; RHS=Revised hammersmith scale; MRI=Magnetic Resonance Imaging, SC=Subcutaneous

Roche Group development pipeline Marketed products development programmes Roche Pharma global development programmes Roche Pharma research and early development (pRED) Genentech research and early development (gRED) Spark



pRED oncology development programs -1

Molecule	Indication	Phase	# of patients	Status	CT Identifier
		Oncol	ogy		
FAP-4-1BBL (RG7827)	3L+ MSS metastatic colorectal cancer	lb	80	FPI Q3 2021 Combination study with cibisatamab	NCT04826003
	Solid tumors	I	320	FPI Q4 2019 Data presented at ESMO 2022 Recruitment completed Q4 2022	NCT04140500
	Advanced or metastatic esophageal squamous cell cancer	П	210	FPI Q2 2021 Randomized trial, compared with nivolumab Recruitment completed Q3 2023	NCT04785820 TALIOS
tobemstomig PD1-LAG3 (RG6139)	Untreated unresectable or metastatic melanoma	II	80	FPI Q3 2022 Recruitment completed Q3 2023	NCT05419388
	Non-small cell lung cancer	II	180	FPI Q1 2023 Recruitment completed Q1 2024	NCT05775289
	advanced and metastatic urothelial cancer	П	240	FPI Q2 2023	NCT05645692
	Metastatic renal cell carcinoma	П	210	FPI Q2 2023	NCT05805501
	Triple-negative breast cancer	П	160	FPI Q3 2023	NCT05852691
englumafusp alfa (CD19-4-1BBL, RG6076)	R/R B cell non-Hodgkin's lymphoma	I	362	Part I: FPI Q3 2019 Part II: FPI Q3 2020 Combination study with Columvi Data presented at ASH 2022 and ICML 2023	NCT04077723



pRED oncology development programs -2

Molecule	Indication	Phase	# of patients	Status	CT Identifier	
Oncology						
eciskafusp alfa (PD1-IL2v, RG6279)	Solid tumors	lb	256	Part I: FPI Q2 2020; recruitment completed Q4 2021 Part II: FPI Q1 2022 Part III: FPI Q1 2023	NCT04303858	
vopikitug (RG6292)	Advanced and metastatic solid tumors	I	160	FPI Q4 2020 PK/PD data presented at AACR 2023	NCT04642365	
forimtamig (Anti-GPRC5D, RG6234)	Multiple myeloma	I	400	FPI Q4 2020 Data presented at EHA 2022 and ASH 2022	NCT04557150	
BRAFi (3) (RG6344)	Solid tumors	I	292	FPI Q1 2022	ISRCTN13713 551	
CD19xCD28 (RG6333)	R/R B cell non-Hodgkin's lymphoma	I	~200	FPI Q1 2022 Combination study with Columvi	NCT05219513	
DLL3 trispecific (RG6524)	Solid tumors	I	168	FPI Q1 2023	NCT05619744	
WRN covalent inhibitor ¹ (RG6457)	Solid tumors	I	220	FPI Q1 2024	NCT06004245	
USP1 inhibitor ² (RG6614)	Solid tumors	I	140	FPI Q3 2021	NCT05240898	



pRED neurology development programs -1

Molecule	Indication	Phase	# of patients	Status	CT Identifier		
Neurology							
trontinemab (BS-anti-Aβ mAb, RG6102)	Alzheimer's disease	lla	~210	FPI Q1 2021 Data presented at ADPD 2024	NCT04639050		
Brainshuttle™-CD20 (RG6035)	Multiple sclerosis	Ι	30-63	FPI Q3 2021	ISRCTN16295 177 NCT05704361		
Gamma-secretase modulator (RG6289)	Alzheimer's disease	I	138	FPI Q4 2021			
prasinezumab ¹ (anti-ɑSynuclein, RG7935, PRX002)	Parkinson's disease	II	316	The study did not meet its primary endpoint, but showed a reduced clinical decline of core motor signs (MDS UPDRS partIII). Data presented at MDS & ADPD 2020-22. The Open Label Extension is ongoing. OLE data presented at MDS 2023 OLE data presented at ADPD 2024 EPLO2 2021	NCT03100149 (PASADENA)		
		llb	575	FPI Q2 2021 Recruitment completed Q1 2023	NCT04777331 (PADOVA)		
alogabat (GABA-Aa5 PAM, RG7816)	Autism spectrum disorder	П	105	FPI Q1 2021	NCT04299464 (Aurora)		



pRED neurology development programs -2

Molecule	Indication	Phase	# of patients	Status	CT Identifier
		Neuro	logy		
MAGL inhibitor (RG6182)	Multiple sclerosis	I	Up to 36	FPI Q3 2023	
selnoflast* (NLRP3i, RG6418)	Parkinson's disease	lb	48	FPI Q3 2022	



pRED immunology and ophthalmology development programs

Molecule	Indication	Phase	# of patients	Status	CT Identifier
		Immuno	ology		
selnoflast* (NLRP3i, RG6418)	Asthma	lb	60	FPI Q1 2024	
NME (RG6382)	SLE	I	70	FPI Q4 2023	NCT05835986

Ophthalmology					
zifibancimig (VEGF-Ang2 DutaFab, RG6120)	nAMD	I	251	FPI Q4 2020	NCT04567303 (BURGUNDY)
NME (RG6209)	retinal disease	I	~70 (Part I)	FPI Q4 2022	



pRED infectious diseases development programs

Molecule	Indication	Phase	# of patients	Status	CT Identifier		
Infectious Diseases							
ruzotolimod (TLR7 agonist (3) RG7854)	Chronic hepatitis B	I	150	FPI Q4 2016 Data presented at APASL 2019	NCT02956850		
ruzotolimod/ xalnesiran¹/ PDL1 LNA (RG7854/RG6346/RG6084)	Chronic hepatitis B	II	275	FPI Q3 2020	NCT04225715 (PIRANGA)		
PDL1 LNA (RG6084)	Chronic hepatitis B	I	35	FPI Q1 2019 Part Ia: completed Part Ib: initiated			
zosurabalpin (Abx MCP, RG6006)	A. baumannii infections	I	204	FPI Q4 2020	NCT04605718		
HBsAg MAb (RG6449)	Chronic hepatitis B	I	110	Part I: FPI Q2 2023 Part II: FPI Q4 2023	NCT05763576		

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gRED oncology development programs -1

Molecule	Indication	Phase	# of patients	Status	CT Identifier		
Oncology							
	R/R multiple myeloma	I	300	FPI Q3 2017 Data presented at ASH 2020, 2021 & 2022	NCT03275103		
	R/R multiple myeloma	I	120	FPI Q2 2021	NCT04910568		
cevostamab	BCMA-experienced R/R MM	1/11	140	FPI Q4 2022	NCT05535244		
(anti-FcRH5 x CD3; RG6160)	R/R multiple myeloma	lb	~110	FPI Q3 2023 In combination with elranatamab	NCT05927571		
	Multiple myeloma platform study	1/11	50	FPI Q4 2023 Multiple molecules and combinations	NCT05583617		
	Solid tumors	la/lb	250	FPI Q1 2020	NCT04250155		
efbalropoendekin alfa	R/R multiple myeloma	I	60	FPI Q2 2022	NCT05243342		
(IL15/IL15Ra-Fc, RG6323) ¹	R/R multiple myeloma	Ι	90	FPI Q1 2023 Combination study with cevostamab	NCT05646836		
autogene cevumeran (Individualized Neoantigen-Specific Therapy (iNeST); RG6180) ²	Solid tumors	la/lb	272	FPI Q4 2017 Data presented at AACR 2020 Recruitment completed Q1 2022	NCT03289962		
	1L advanced melanoma	II	131	FPI Q1 2019 Recruitment completed Q4 2021	NCT03815058 (IMcode001)		
	Adjuvant PDAC	Ш	260	FPI Q4 2023	NCT05968326 (IMcode003)		



gRED oncology development programs -2

Molecule	Indication	Phase	# of patients	Status	CT Identifier
Oncology					
runimotamab (HER2 x CD3, RG6194)	Metastatic HER2-expressing cancers	I	440	FPI Q2 2018 Study closed Q1 2024	NCT03448042
	Solid tumors	lb	~125	FPI Q3 2022	NCT05487235
migoprotafib (SHP2i, RG6433) ¹	KRAS-G12C mutant solid tumors	lb	~500	FPI Q4 2021 Arm F of a combination study investigating divarasib monotheraphy and combinations	NCT04449874
	EGFRi 2L+ NSCLC, 2L+ CRC	lb	~120	FPI Q1 2024	NCT05954871
anti-CCR8 (RG6411)	Solid tumors	I	110	FPI Q4 2022	NCT05581004
AR degrader (RG6537) ²	mCRPC	Ι	~160	FPI Q2 2023	NCT05800665
anti-latent TGFβ1 (SOF10; RG6440)	Solid tumors	lb	120	FPI Q3 2023	NCT05867121
NME (RG6468)	Solid tumors	I	110	FPI Q4 2023	NCT06031441



gRED immunology and ophthalmology development programs

Molecule	Indication	Phase	# of patients	Status	CT Identifier
Immunology					
NME (RG6287, GDC-8264)	Acute graft versus host disease	lb	40	FPI Q2 2023 Study closed Q4 2023	NCT05673876
NME (RG6315, MTBT1466A)	Systemic sclerosis	lb	100	FPI Q1 2023	NCT05462522
NME (RG6341, GDC-6599)	Asthma	la/lb	84	FPI Q4 2021	
	Chronic cough	lla	80	FPI Q1 2023	NCT05660850
TMEM16A potentiator (RG6421, GDC-6988)	Cystic fibrosis	lb	30	FPI Q3 2022 Study completed Q2 2023	ISRCTN15406 513
Vixarelimab (RG6536) ¹	Idiopathic pulmonary fibrosis / Systemic sclerosis-associated interstitial lung disease	II	~290	FPI Q2 2023	NCT05785624
	Inflammatory bowel disease	П	~260	FPI expected Q2 2024	NCT06137183

Ophthalmology					
NME (RG6351)	DME	I	~90	FPI Q2 2022 LPI Q1 2024	ISRCTN14152 148
OpRegen (RG6501) ²	Geographic atrophy	11	60	FPI Q1 2023	NCT05626114



gRED infectious diseases development program

Molecule	Indication	Phase	# of patients	Status	CT Identifier
Infectious Diseases					
LepB inhibitor (RG6436)*	Complicated urinary tract infection	I	104	FPI Q2 2024	ISRCTN18049481

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Hemophilia A Unique gene therapy platform

Molecule	Dirloctogene Samoparvovec (SPK-8011) (RG6357)					
Indication	Hemophilia A					
Phase/study	Phase I	Phase I/II				
# of patients	N=100	N=30				
Design	 Long term follow up study of patients who have received SPK-8011 in any prior Spark-sponsored SPK-8011 study 	 Gene transfer, dose-finding safety, tolerability, and efficacy study of SPK-8011 				
Primary endpoint	• Safety	 Safety and changes from baseline in FVIII activity levels at week 52 				
Status	- Ongoing	 Updated data presented at ISTH 2020 and 2021 Recruitment completed Q1 2021 Data published in <i>NEJM</i> 2021; 385:1961-1973 5-year data published at ASH 2022 				
CT Identifier	NCT03432520	NCT03003533				

ISTH=International Society on Thrombosis and Haemostasis; NEJM=New England Journal of Medicine



Pompe disease Unique gene therapy platform

Molecule	SPK-3006 (RG6359)
Indication	Pompe disease
Phase/study	Phase I/II RESOLUTE
# of patients	N=20
Design	Gene transfer study for late-onset Pompe disease
Primary endpoint	• Safety
Status	 FPI Q4 2020 Recruitment completed Q2 2022
CT Identifier	NCT04093349

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