



### Pharmaceuticals – Pipeline Overview<sup>1</sup> (as of Feb 15, 2023)

Phase 0 <sup>2</sup>		Phase I		Phase II		Phase III	
<b>DGKalpha Inh</b> (BAY 2862789)	.i. •	Elimusertib (ATR Inhibitor) (BAY 1895344)	, i. •	Regorafenib (combi Nivolumab) (BAY 734506)  // Solid tumors (recurrent or metastatic)	"i. C	Copanlisib (PI3K Inhibitor) // Non-Hodgkin Lymphoma (CHRONOS-4)	مد. O مد
PSMA TAC (BAY 3546828)		AhR Inhibitor (BAY 2416964)	,Å, •	Asundexian (FXIa Inhibitor) (BAY 2433334)	•	Darolutamide (AR Inhibitor)	
PSMA SMOL TAC (BAY 3563254)		mEGFR Inhibitor (BAY 2927088)	્રે. •	// Major Adverse Cardiac Events Prevention (PACIFIC-AMI)	040	// Prostate Cancer (mHSPC) (ARANOTE)	å, O
VVD NRF2 Inh (BAY 3605349)	ا الله	DGKzeta Inhibitor (BAY 2965501)	.i. •	Runcaciguat (sGC Activator) (BAY 1101042)  // Chronic Kidney Disease (CKD) (CONCORD)	1	// Adjuvant Prostate Cancer (DASL-HiCaP)  Finerenone (MR Antagonist)	9 0
VVD STAT3 Inh (BAY 3630914)	<u>ئ</u> ه •	CCR8 Ab (BAY 3375968)	Y	// Non-prolif. Diabetic Retinopathy (NPDR) (NEON-NPDR)	970	// Heart Failure (HFmr/pEF) (FINEARTS-HF) // Non-diabetic CKD (FIND-CKD)	.i., O
<b>SEMA 3a</b> (BAY 3401016)	*	Congestive Heart Failure Gene Therapy (AB-1002 formerly NAN-101)	ğ •	BDKRB1 Receptor Antagonist (BAY 2395840) // Neuropathic Pain (BRADINP)	,i. (	Vericiguat (sGC Stimulator)	å, O
LGMD2i Gene Therapy (LION-101)	ğ <b>•</b>	sGC Activator (BAY 3283142)	å o	Gadoquatrane (High Relaxivity Contrast Agent)	<b></b>	// Heart Failure (HFrEF) (VICTOR³)	, , ,
Next Generation Liver MRI (BAY 3393081)		Anti-a2AP (BAY 3018250)	<b>Y</b> •	(BAY 1747846) // Magnetic Resonance Imaging (HRCA-PAT)		Asundexian (FXIa Inhibitor)  // Stroke Prevention in Atrial Fibrillation (OCEANIC-AF)  // 2° Stroke Prevention (OCEANIC-STROKE)	<b>.</b>
		P2X4 Antagonist (BAY 2328065)	,i, •	Adrenomedullin Pegol (PEG-ADM) (BAY 1097761)  // Acute Resp. Distress Syn. (ARDS) (SEAL)	م ا	Elinzanetant (Neurokinin-1,3 Rec Antagonist)	1
		BDKRB1 Receptor Antagonist (BAY 2395840)	, Å, •	Zabedosertib (IRAK4 Inh.) (BAY 1834845)	Ŷ <b>.</b>	// Vasomotor Symptoms (OASIS)	9. To
		sGC Activator (BAY 1211163)	,i. •	// Atopic Dermatitis (DAMASK)	o.♣o		
		<b>Bemdaneprocel</b> (Parkinson's Disease Cell Therapy) (BRT-DA01)					
		Parkinson's Disease Gene Therapy	ğ •			Submissions	
		(AB-1005 formerly AAV2-GDNF-PD)  Multiple System Atrophy Gene Therapy				Darolutamide (AR Inhibitor) / ADT with Chemotherapy	<u>ئ</u> ه ٥
		(AB-1005 formerly AAV2-GDNF-MSA)	ğ •			// EU, Japan, China: mHSPC	
Oncology		Pompe Disease Gene Therapy (ACTUS-101)	ğ <b>•</b>			Aflibercept 8MG	<b>5</b> 0
Cardiovascular Diseases		Huntington's Disease Gene Therapy (BV-101)	ğ 🔵			// EU, US <sup>5</sup> : Diabetic Macular Edema (DME) // EU, US <sup>5</sup> : Neovasc. Age-rel. Macular Degen. (nAMD)	3
Women's Health		GPR84 Antagonist (BAY 3178275)	, i. •				



Life cycle management















<sup>1</sup> Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit 2 Pre-clinical selected assets on path to IND 3 Conducted by Merck & Co 4 US submission made by Regeneron



### Pharmaceuticals – Pipeline Details Phase III<sup>1</sup> (as of Feb 15, 2023)

Therapeutic Area	Candidate medication	Modality	Compound Origin	Indication	Ct.gov Identifier	Estimated/actual primary completion	Status
Oncology	Copanlisib (PI3K Inhibitor)	Å	Bayer	Non-Hodgkin Lymphoma (CHRONOS-4)	NCT02626455	Q1 2023	Study ongoing
	Darolutamide (AR Inhibitor)	Å	Orion	Prostate Cancer (mHSPC) (ARANOTE)	NCT04736199	Q1 2024	Study ongoing
				Adjuvant Prostate Cancer (DASL-HiCaP)	NCT04136353	Q1 2028	Study ongoing
Cardiovascular Diseases	Finerenone (MR Antagonist)	<i>.</i>	Bayer	Heart Failure (HFmr/pEF) (FINEARTS-HF)	NCT04435626	Q3 2024	Study ongoing
Diseases				Non-diabetic CKD (FIND-CKD)	NCT05047263	Q1 2026	Study ongoing
	Vericiguat (sGC Stimulator)	Å	Bayer	Heart Failure (HFrEF) (VICTOR³)	NCT05093933	Q1 2025	Study ongoing
	Asundexian (FXIa Inhibitor)	*	Bayer	Stroke Prevention in Atrial Fibrillation (OCEANIC-AF)	NCT05643573	Q3 2025	Study ongoing
				2º Stroke Prevention (OCEANIC-STROKE)	NCT05686070	Q4 2025	Study ongoing
Women's Health	Elinzanetant (Neurokinin-1,3 Rec Antagonist)	ه <b>ئ</b> ه	KaNDy	Vasomotor Symptoms (OASIS-1, OASIS-2, OASIS-3, OASIS-4)	NCT05042362 NCT05099159 NCT05030584 NCT05587296	Q3 2023 Q2 2023 Q1 2023 Q1 2024	Studies ongoing

1 Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit 3 Conducted by Merck & Co 4 Conducted by Regeneron Pharmaceuticals





















### Pharmaceuticals – Pipeline Details Phase II<sup>1</sup> (as of Feb 15, 2023)

Therapeutic Area	Candidate medication	Modality	Compound Origin	Indication	Ct.gov Identifier	Estimated/actual primary completion	Status
Oncology	Regorafenib (combi Nivolumab) (BAY 734506)	مگر	Bayer	Solid tumors (recurrent or metastatic)	NCT04704154	Q1 2023	Study ongoing
Cardiovascular Diseases	Asundexian (FXIa Inhibitor) (BAY 2433334)	هُ.	Bayer	Major Adverse Cardiac Events Prevention (PACIFIC-AMI	NCT04304534	Q1 2022	Study completed; data presented at ESC in Aug. 2022
	Runcaciguat (sGC Activator) (BAY 1101042)	*	Bayer	Chronic Kidney Disease (CKD) (CONCORD)	NCT04507061	Q1 2022	Study completed; detailed evaluation ongoing
Others	BDKRB1 Receptor Antagonist (BAY 2395840)	ۀ.	Bayer/Evotec	Neuropathic Pain (BRADiNP)	NCT05219812	Q4 2022	Study completed
	Gadoquatrane (High Relaxivity Contrast Agent) (HRCA) (BAY 1747846)	Ö	Bayer	Magnetic Resonance Imaging (HRCA-PAT)	NCT04307186	Q3 2022	Study completed
	Runcaciguat (sGC Activator) (BAY 1101042)	*	Bayer	Non-prolif. Diabetic Retinopathy (NPDR) (NEON-NPDR)	NCT04722991	Q4 2023	Study ongoing
	Adrenomedullin Pegol (PEG-ADM) (BAY 1097761)	by	Bayer	Acute Resp. Distress Syn. (ARDS) (SEAL)	NCT04417036	Q4 2024	Study ongoing
	<b>Zabedosertib</b> (IRAK4 Inhibitor) (BAY 1834845)	<b>å</b> ,	Bayer	Atopic Dermatitis (DAMASK)	NCT05656911	Q2 2023	Study ongoing

1 Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit





















# Pharmaceuticals – Pipeline Details Phase I<sup>1</sup> (as of Feb 15, 2023)

Therapeutic Area	Candidate medication	Modality	Compound Origin	Indication	Ct.gov Identifier	Estimated/actual primary completion	Status
	Elimusertib (ATR Inhibitor) (BAY 1895344)	<b>Å</b> .	Bayer	Advanced solid tumors, Non-Hodgkin's Lymphoma, Mantle Cell Lymphoma	NCT03188965 NCT04095273 NCT04267939	Q4 2022 Q1 2023 Q1 2025	Studies ongoing
	AhR Inhibitor (BAY 2416964)	<b>.</b>	Bayer/DKFZ	Advanced solid tumors	NCT04069026 NCT04999202	Q1 2025 Q2 2025	Studies ongoing
Oncology	mEGFR Inhibitor (BAY 2927088)	<b>.</b>	Bayer/Broad Institute	Advanced Non-small Cell Lung Cancer with EGFR Mutation and/or HER2 Mutation	NCT05099172	Q4 2025	Study ongoing
	DGKzeta Inhibitor (BAY 2965501)	, Å,	Bayer/DKFZ	Advanced solid tumors	NCT05614102	Q3 2026	Study ongoing
	CCR8 Ab (BAY 3375968)		Bayer	Advanced solid tumors	NCT05537740	Q4 2026	Study ongoing
	Congestive Heart Failure Gene Therapy (AB-1002 formerly NAN-101)	ğ	AskBio	Congestive Heart Failure	NCT04179643		Phase I study and planning activities for subsequent phases ongoing
Cardiovascular Diseases	sGC Activator (BAY 3283142)	هُر.	Bayer	Chronic Kidney Disease (CKD)	NCT05491642	Q1 2023	Study ongoing
	Anti-a2AP (BAY 3018250)		Bayer	Acute Ischemic Stroke; Pulmonary Embolism		Q2 2023	Study planned
Women's	P2X4 Antagonist (BAY 2328065)	؞؞ؙ؞	Bayer	Endometriosis	NCT03427788 NCT04027192	Q4 2018 Q3 2020	Phase II decision expected in HY1 2023
Health	BDKRB1 Receptor Antagonist (BAY 2395840)	<b>Å</b> ,	Bayer/Evotec	Endometriosis	NCT05517746	Q4 2020	Phase II decision expected in HY1 2023
	sGC Activator (BAY 1211163)	•	Bayer	Acute Respiratory Distress Syndrome	NCT04609943	Q2 2023	Study ongoing
	<b>Bemdaneprocel</b> (Parkinson's Disease Cell Therapy) (BRT-DA01)		BlueRock	Parkinson's Disease	NCT04802733	Q2 2023	Study ongoing
	Parkinson's Disease Gene Therapy (AB-1005 formerly AAV2-GDNF-PD)	절	AskBio	Parkinson's Disease	NCT04167540	Q4 2023	Study ongoing
Others	Multiple System Atrophy Gene Therapy (AB-1005 formerly AAV2-GDNF-MSA)	ğ	AskBio	Multiple System Atrophy	NCT04680065	Q1 2024	Study ongoing
	Pompe Disease Gene Therapy (ACTUS-101)	ğ	AskBio	Pompe Disease	NCT03533673	Q2 2025	Study ongoing
	Huntington's Disease Gene Therapy (BV-101)	ğ	AskBio	Huntington's Disease	NCT05541627	Q4 2025	Study onoging
	GPR84 Antagonist (BAY 3178275)		Bayer	Diabetic Neuropathic Pain	n/a	Q2/2024	Study ongoing

<sup>1</sup> Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit





















# Pharmaceuticals – Pipeline Details Oncology<sup>1</sup> (as of Feb 15, 2023)

Candidate medication	Indication	Modality	Compound Origin	Phase 0 <sup>2</sup>	Phase I	Phase II	Phase III	Ct.gov Identifier	Estimated/actual primary completion	Status
Copanlisib (PI3K Inhibitor)	Non-Hodgkin Lymphoma (CHRONOS-4)	؞؞ؙ؞	Bayer					NCT02626455	Q1 2023	Study ongoing
Darolutamide (AR Inhibitor)	Prostate Cancer (mHSPC) (ARANOTE)	<b>,</b>	Orion					NCT04736199	Q1 2024	Study ongoing
	Adjuvant Prostate Cancer (DASL-HiCaP)							NCT04136353	Q1 2028	Study ongoing
Regorafenib (combi Nivolumab) (BAY 734506)	Solid tumors (recurrent or metastatic)	<b>.</b>	Bayer					NCT04704154	Q1 2023	Study ongoing
Elimusertib (ATR Inhibitor) (BAY 1895344)	Advanced solid tumors, Non-Hodgkin's Lymphoma, Mantle Cell Lymphoma	ۀ.	Bayer					NCT03188965 NCT04095273 NCT04267939	Q4 2022 Q1 2023 Q1 2025	Studies ongoing
AhR Inhibitor (BAY 2416964)	Advanced solid tumors	٠	Bayer/DKFZ					NCT04069026 NCT04999202	Q1 2025 Q2 2025	Studies ongoing
mEGFR Inhibitor (BAY 2927088)	Advanced Non-small Cell Lung Cancer with EGFR Mutation and/or HER2 Mutation	ۀ.	Bayer/Broad Institute					NCT05099172	Q4 2025	Study ongoing
DGKzeta Inhibitor (BAY 2965501)	Advanced solid tumors	, Å,	Bayer/DKFZ					NCT05614102	Q3 2026	Study ongoing
CCR8 Ab (BAY 3375968)	Advanced solid tumors	Y	Bayer					NCT05537740	Q4 2026	Study ongoing
DGKalpha Inh (BAY 2862789)	Cancer	<b>.</b>	Bayer/DKFZ							
PSMA TAC (BAY 3546828)	Advanced Prostate Cancer		Lantheus (prev. Progenics)							
PSMA SMOL TAC (BAY 3563254)	Advanced Prostate Cancer		Noria Therapeutics/PSMA Therapeutics							
VVD NRF2 Inh (BAY 3605349)	Cancer	, Å,	Vividion							
VVD STAT3 Inh (BAY 3630914)	Cancer	؞؞ؙ	Vividion							

1 Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit 2 Pre-clinical selected assets on path to IND





















# Pharmaceuticals – Pipeline Details Cardiov. Diseases<sup>1</sup> (as of Feb 15, 2023)

Candidate medication	Indication	Modality	Compound Origin	Phase 0 <sup>2</sup>	Phase I	Phase II	Phase III	Ct.gov Identifier	Estimated/actual primary completion	Status
Finerenone (MR Antagonist)	Heart Failure (HFmr/pEF) (FINEARTS-HF)	,Å,	Bayer					NCT04435626	Q3 2024	Study ongoing
	Non-diabetic CKD (FIND-CKD							NCT05047263	Q1 2026	Study ongoing
Vericiguat (sGC Stimulator)	Heart Failure (HFrEF) (VICTOR³)	؞؞ؙ؞	Bayer					NCT05093933	Q1 2025	Study ongoing
<b>Asundexian</b> (FXIa Inhibitor) (BAY 2433334)	Stroke Prevention in Atrial Fibrillation (OCEANIC-AF)	*	Bayer					NCT05643573	Q3 2025	Study ongoing
	2º Stroke Prevention (OCEANIC-STROKE)							NCT05686070	Q4 2025	Study ongoing
	Major Adverse Cardiac Events Prevention (PACIFIC-AMI)							NCT04304534	Q1 2022	Study completed; data presented at ESC in Aug 2022
Runcaciguat (sGC Activator) (BAY 1101042)	Chronic Kidney Disease (CKD) (CONCORD)	ۀ.	Bayer					NCT04507061	Q1 2022	Study completed; detailed evaluation ongoing
Congestive Heart Failure Gene Therapy (AB-1002 formerly NAN-101)	Congestive Heart Failure	ğ	AskBio					NCT04179643		Phase I study and planning activities for subsequent phases ongoing
sGC Activator (BAY 3283142)	Chronic Kidney Disease (CKD)	<b>å</b> .	Bayer					NCT05491642	Q1 2023	Study ongoing
<b>Anti-a2AP</b> (BAY 3018250)	Acute Ischemic Stroke; Pulmonary Embolism	Y	Bayer					n/a	Q1 2023	Study planned
<b>SEMA 3a</b> (BAY 3401016)	Alport Syndrome	Y	Bayer/Evotec							

<sup>1</sup> Bayer and partner sponsored + 3rd party label enabling studies with first patient first vist 2 Pre-clinical selected assets on path to IND 3 Conducted by Merck & Co





















### Pharmaceuticals – Pipeline Details Women's Health<sup>1</sup> (as of Feb 15, 2023)

Candidate medication	Indication	Modality	Compound Origin	Phase 0 <sup>2</sup>	Phase I	Phase II	Phase III	Ct.gov Identifier	Estimated/actual primary completion	Status
Elinzanetant (Neurokinin-1,3 Rec Antagonist)	Vasomotor Symptoms (OASIS-1, OASIS-2, OASIS-3, OASIS-4)	*.	KaNDy					NCT05042362 NCT05099159 NCT05030584 NCT05587296	Q3 2023 Q2 2023 Q1 2023 Q1 2024	Studies ongoing
<b>P2X4 Antagonist</b> (BAY 2328065)	Endometriosis	*.	Bayer					NCT03427788 NCT04027192	Q4 2018 Q3 2020	Phase II decision expected in HY1 2023
BDKRB1 Receptor Antagonist (BAY 2395840)	Endometriosis	<b>å</b> ,	Bayer/Evotec					NCT05517746	Q4 2020	Phase II decision expected in HY1 2023

1 Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit 2 Pre-clinical selected assets on path to IND





















# Pharmaceuticals – Pipeline Details Other Ther. Areas<sup>1</sup> (as of Feb 15, 2023)

Candidate medication NCT	Indication	Modality	Compound Origin	Phase 0 <sup>2</sup>	Phase I	Phase II	Phase III	Ct.gov Identifier	Estimated/actual primary completion	Status
BDKRB1 Receptor Antagonist (BAY 2395840)	Neuropathic Pain (BRADiNP)	؞؞ؙ؞	Bayer/Evotec					NCT05219812	Q4 2022	Study completed
Gadoquatrane (High Relaxivity Contrast Agent (HRCA) (BAY 1747846)	Magnetic Resonance Imaging (HRCA-PAT)	Ö	Bayer					NCT04307186	Q3 2022	Study completed
Runcaciguat (sGC Activator) (BAY 1101042)	Non-prolif. Diabetic Retinopathy (NPDR) (NEON-NPDR)	؞ؙؙؗ؞	Bayer					NCT04722991	Q4 2023	Study ongoing
Adrenomedullin Pegol (PEG-ADM) (BAY 1097761)	Acute Resp. Distress Syn. (ARDS) (SEAL)	437	Bayer					NCT04417036	Q4 2024	Study ongoing
Zabedosertib (IRAK4 Inhibitor) (BAY 1834845)	Atopic Dermatitis (DAMASK)	<b>.</b>	Bayer					NCT05656911	Q2 2023	Study ongoing
sGC Activator (BAY 1211163)	Acute Respiratory Distress Syndrome	*	Bayer					NCT04609943	Q2 2023	Study ongoing
<b>Bemdaneprocel</b> (Parkinson's Disease Cell Therapy) (BRT-DA01)	Parkinson's Disease		BlueRock					NCT04802733	Q2 2023	Study ongoing
Parkinson's Disease Gene Therapy (AB-1005 formerly AAV2-GDNF-PD)	Parkinson's Disease	ğ	AskBio					NCT04167540	Q4 2023	Study ongoing
Multiple System Atrophy Gene Therapy (AB-1005 formerly AAV2-GDNF-MSA)	Multiple System Atrophy	曼	AskBio					NCT04680065	Q1 2024	Study ongoing
Pompe Disease Gene Therapy (ACTUS-101)	Pompe Disease	ğ	AskBio					NCT03533673	Q2 2025	Study ongoing
Huntington's Disease Gene Therapy (BV-101)	Huntington's Disease	ğ	AskBio					NCT05541627	Q4 2025	Study ongoing
GPR84 Antagonist (BAY 3178275)	Diabetic Neurpatic Pain	*	Bayer					n/a	Q2 2024	Study ongoing
<b>LGMD2i</b> Gene Therapy (LION-101)	Limb-Girdle Muscular Dystrophy 2i	¥	AskBio							
Next Generation Liver MRI (BAY 3393081)	Contrast Media	ē	Bayer							

<sup>1</sup> Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit 2 Pre-clinical selected assets on path to IND 4 Conducted by Regeneron Pharmaceuticals

















