



**Table S1.** Clinical trials implicating galectins as biomarkers (1).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGETS	BIOMARKE RS	TUMOR TYPES	PHAS ES	RESULT S	STA RT DAT E	EN D DA TE
NCT025301 25	Pidilizumab in Treating Patients With Stage III-IV Diffuse Large B-Cell Lymphoma Following First Remission	Termin ated	PD-1	Gal-1 Biomarker	Lympho ma	Phase 2	Stoppe d without public explana tion.	Sep 201 5	Jan 20 17
NCT026055 12	Breast Cancer and Cardiotoxicity Induced by RadioTherapy: the BACCARAT Study	Recruit ing	Radiothe rapy	Gal-3 Biomarker	Breast Cancer	Not Applic able		Oct 201 5	Se p 20 20
NCT024944 53	Pilot Study of Biomarkers and Cardiac MRI as Early Indicators of Cardiac Exposure Following Breast Radiotherapy	Termin ated	Radiothe rapy	biomarker	Breast Cancer			Jun e 201 5	Jul y 20 17
NCT024962 60	Biomarkers and Cardiac MRI as Early Indicators of Cardiac Exposure Following Breast Radiotherapy	Unkno wn status	Radiothe rapy	Gal-3 Biomarker	Breast Cancer			July 201 5	
NCT032973 46	Early Detection of Cardiovascular Changes After Radiotherapy for Breast Cancer	Recruit ing	Radiothe rapy	Gal-3 Biomarker	Breast Cancer Female	Not Applic able		Sep 201 7	Ma y 20 21
NCT013479 70	Pharmacologic Reversal of Ventricular Remodeling in Childhood Cancer Survivors at Risk for Congestive Heart Failure (PREVENT-CHF): A Phase IIB Randomized Placebo-Controlled Trial	Active, not recruiti ng	multiple	Gal-3 Biomarker	Cancer Survivor	Phase 2		May 201 2	De c 20 20
NCT015116 53	Validation of Colon Biomarkers for the Early Detection of Colorectal Adenocarcinoma	Compl eted	-	Gal-3 Biomarker	Colon Cancer R ectal Cancer			Oct 201 1	Apr il 20 19
NCT003887 00	A New Agent GM-CT-01 in Combination With 5-FU, Avastin and Leucovorin in Subjects With Colorectal Cancer	Withdr awn	Galectins	Gal-3 Biomarker	Colorect al Cancer	Phase 2		Oct 200 6	
NCT027175 07	Carvedilol in Preventing Heart Failure in Childhood Cancer Survivors	Recruit ing	Beta- blockers	Gal-3 Biomarker	Malignan t Neoplas m	Phase 2		Apri   201 	

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Table S2. Clinical trials implicating galectins as biomarkers (2).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA TE	EN D DA TE
NCT02117 362	Galectin Inhibitor (GR-MD- 02) and Ipilimumab in Patients With Metastatic Melanoma	Compl eted	PD-1	Gal-3 Biomarker	Metasta tic Melano ma	Phase 1		Ma y 201 4	Nov 201 8
NCT03488 134	Predicting Prognosis and Recurrence of Thyroid Cancer Via New Biomarkers, Urinary Exosomal Thyroglobulin and Galectin- 3	Active , not recruit ing	Gal-3 Pronosti C	Gal-3 Biomarker	Thyroid Cancer			Aug 3, 201 8	July 31, 202 3
NCT01896 999	Brentuximab Vedotin and Nivolumab With or Without Ipilimumab in Treating Patients With Relapsed or Refractory Hodgkin Lymphoma	Recrui ting	PD-1 +CTLA-4 +CD30	Biomarker s (Gal- 1+Tim-3)	Lympho ma	Phase 1  Phase 2		Jan 24, 201 4	
NCT03940 352	HDM201 in Combination With MBG453 or Venetoclax in Patients With Acute Myeloid Leukemia (AML) or High-risk Myelodysplastic Syndrome (MDS)	Recrui ting	P53	Tim-3 Biomarker	AML	Phase 1		Jun e 24, 201 9	Apr 22, 202 1
NCT03289 819	Neoadjuvant Pembrolizumab(Pbr)/Nab- Paclitaxel Followed by Pbr/Epirubicin/Cyclophosph amide in TNBC	Active , not recruit ing	PD-1 + Chemot h	Tim-3 Biomarker	Breast Cancer	Phase 2		Ma r 23, 201 8	Sep 202 0
NCT02303 366	Pilot Study of Stereotactic Ablation for Oligometastatic Breast Neoplasia in Combination With the Anti- PD-1 Antibody MK-3475	Compl eted	PD-1	Tim-3 Biomarker	Breast Neoplas ms   Bon e Neoplas ms	Phase 1		Sep 201 5	Apr 201 7
NCT03661 047	OMega-3 Fatty Acid for the Immune Modulation of Colon Cancer	Recrui ting	Metabol ism	Tim-3 Biomarker	Colon Cancer	Phase 2		Nov 30, 201	Sep 202 3
NCT04001 101	Anti-PD-1 +/- RT for MSI-H Solid Tumors	Recrui ting	PD-1	Tim-3 Biomarker	Colorect al Cancer	Phase 2		Oct 10, 201	July 202 1
NCT03609 424	PDR001 Plus Imatinib for Metastatic or Unresectable GIST	Recrui ting	PD-1	Tim-3 Biomarker	Gastroin testinal Stromal Tumors	Phase 1  Phase 2		Feb 14, 201 9	Aug 30, 202

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**Table S3.** Clinical trials implicating galectins as biomarkers (3).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA TE	EN D DA TE
NCT03961 971	Trial of Anti-Tim-3 in Combination With Anti-PD- 1 and SRS in Recurrent GBM	Recrui ting	PD-1	Tim-3 Biomarker	Glioblas toma Multifor me	Phase 1		Feb 18, 202 0	Fe b 20 24
NCT03066 648	Study of PDR001 and/or MBG453 in Combination With Decitabine in Patients With AML or High Risk MDS	Recrui ting	PD-1	Tim-3 Biomarker	Leukemi a	Phase 1		Oct 29, 201 0	Ap r 1, 20 21
NCT03680 508	TSR-022 (Anti-TIM-3 Antibody) and TSR-042 (Anti-PD-1 Antibody) in Patients With Liver Cancer	Recrui ting	-	Tim-3 Biomarker	Liver Cancer	Phase 2		No v 4, 201 9	Oc t 20 23
NCT03549 546	Expression of the Inhibitory Receptors on Lymphocytes T Cells After Lung Cancer Surgery.	Compl eted	Surgery	Tim-3 Biomarker	Lung Cancer	Not Appli cable		Jun e 14, 201 8	Fe b 20 19
NCT02846 103	Study of Anti-telomerase T CD4 Immunity in Metastatic Lung Cancer	Unkno wn status	-	Tim-3 Biomarker	Lung Cancer	Not Appli cable		Dec 201 5	De c 20 19
NCT03489 343	Sym023 (Anti-TIM-3) in Patients With Advanced Solid Tumor Malignancies or Lymphomas	Active , not recruit ing	-	Tim-3 Biomarker	Lympho ma	Phase 1		Ma y 30, 201 8	Se p 20 20
NCT03311 412	Sym021 Monotherapy and in Combination With Sym022 or Sym023 in Patients With Advanced Solid Tumor Malignancies or Lymphomas	Recrui ting	PD-1	Tim-3 Biomarker	Lympho ma	Phase 1		Dec 7, 201 7	No v 20 20
NCT03873 805	PSCA-CAR T Cells in Treating Patients With PSCA+ Metastatic Castration Resistant Prostate Cancer	Recrui ting	CART	Tim-3 Biomarker	mCRPC	Phase 1		Ma y 23, 201 9	Fe b 20 21
NCT03772 899	Fecal Microbial Transplantation in Combination With Immunotherapy in Melanoma Patients (MIMic)	Recrui ting	Fecal + Immuno th	Tim-3 Biomarker	Melano ma	Phase 1		Ma rch 27, 201 9	De c 20 23
NCT03089 606	Pembrolizumab TX-naive Distant Mets Melanoma and Use of AMT (PET) at Baseline as Imaging Biomarker	Recrui ting	PD-1	Tim-3 Biomarker	Melano ma	Phase 2		Jun e 1, 201 7	Ju ne 20 22

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Table S4. Clinical trials implicating galectins as biomarkers (4).

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CLINICAL TRIAL	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA	EN D DA
NUMBERS								TE	TE
	Trial of Anti-Tim-3 in				Glioblas			Feb	Fe
NCT03961	Combination With Anti-PD-	Recrui		Tim-3	toma	Phase		r	ь р
971	1 and SRS in Recurrent	ting	PD-1	Biomarker	Multifor	1		18,	20
3,1	GBM	8		Diomarke.	me	-		202	24
								0	Ар
	Study of PDR001 and/or							Oct	r r
NCT03066	MBG453 in Combination	Recrui	PD-1	Tim-3	Leukemi	Phase		29,	1,
648	With Decitabine in Patients	ting		Biomarker	а	1		201	20
	With AML or High Risk MDS							0	21
	TSR-022 (Anti-TIM-3							No	Oc
NCT03680	Antibody) and TSR-042	Recrui	_	Tim-3	Liver	Phase		v 4,	t
508	(Anti-PD-1 Antibody) in	ting		Biomarker	Cancer	2		201	20
	Patients With Liver Cancer							9 Jun	23
	Expression of the Inhibitory					Not		e	Fe
NCT03549	Receptors on Lymphocytes	Compl	Surgery	Tim-3	Lung	Appli		14,	b
546	T Cells After Lung Cancer	eted	0.7	Biomarker	Cancer	cable		201	20
	Surgery.							8	19
	Study of Anti-telomerase T	Unkno				Not		Dec	De
NCT02846	CD4 Immunity in Metastatic	wn	-	Tim-3	Lung	Appli		201	С
103	Lung Cancer	status		Biomarker	Cancer	cable		5	20 19
								Ma	
NCT02400	Sym023 (Anti-TIM-3) in	Active		Ti 2	Luciania	Dhaaa		У	Se
NCT03489 343	Patients With Advanced Solid Tumor Malignancies	, not recruit	-	Tim-3 Biomarker	Lympho ma	Phase 1		30,	р 20
343	or Lymphomas	ing		bioinarkei	IIIa	1		201	20
		6						8	
	Sym021 Monotherapy and in Combination With							Dec	No
NCT03311	Sym022 or Sym023 in	Recrui	PD-1	Tim-3	Lympho	Phase		7,	V
412	Patients With Advanced	ting		Biomarker	ma	1		201	20
	Solid Tumor Malignancies	Ü						7	20
	or Lymphomas								
	PSCA-CAR T Cells in Treating							Ma	Fe
NCT03873	Patients With PSCA+	Recrui	CART	Tim-3	··· CDDC	Phase		y	b
805	Metastatic Castration	ting	CART	Biomarker	mCRPC	1		23, 201	20
	Resistant Prostate Cancer							9	21
	Fecal Microbial							Ma	
NCTO2772	Transplantation in	Doom:	Fecal	Time 2	Malan -	Dhass		r	De
NCT03772 899	Combination With	Recrui ting	Th+ Immuno	Tim-3 Biomarker	Melano ma	Phase 1		27,	c 20
033	Immunotherapy in	ung	th	טוטווומו גבו	1110	1		201	23
	Melanoma Patients (MIMic)							9	23
	Pembrolizumab TX-naive Distant Mets Melanoma							Jun	Ju
NCT03089	and Use of AMT (PET) at	Recrui	PD-1	Tim-3	Melano	Phase		e 1,	ne
606	Baseline as Imaging	ting	LD-I	Biomarker	ma	2		201	20
	Biomarker							7	22

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**Table S5.** Clinical trials implicating galectins as biomarkers (5).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA TE	EN D DA TE
NCT04253 145	Study to Assess Safety,Tolerability,Efficacy of PM01183 and Atezolizumab in Patients w/ Advanced Small Cell Lung Cancer.	Recrui ting	PD-L1 + DNA	Tim-3 Biomarker	NSCLC	Phase 1		Dec 13, 201 9	Fe b 20 22
NCT03121 417	Nivolumab in Treating Patients With Advanced Metastatic Non-small Cell Lung Cancer	Withd rawn	PD-1	Tim-3 Biomarker	NSCLC	Phase 2		July 21, 201 7	M ar 20 19
NCT01567 891	CT Antigen TCR-redirected T Cells for Ovarian Cancer.	Compl eted	Immuno th	Tim-3 Biomarker	Ovarian Cancer	Phase 1  Phase 2		July 9, 201 3	Ju ne 20 17
NCT03618 355	Trial of eRapa in Prostate Cancer Patients	Active, not recruit ing		Tim-3 Biomarker	Pca	Phase 1		July 20, 201 8	Jul y 20 20
NCT02636 725	Axitinib and Pembrolizumab in Subjects With Advanced Alveolar Soft Part Sarcoma and Other Soft Tissue Sarcomas	Active, not recruit ing	PD-1 +Chemo th	Tim-3 Biomarker	Sarcoma s	Phase 2		Apr il 19, 201 6	M arc h 20 21
NCT03946 943	Study of Anlotinib Hydrochloride and Toripalimab in Subjects With Unresectable or Metastatic Undifferentiated Pleomorphic Sarcoma	Not yet recruit ing	PD-1	Tim-3 Biomarker	Sarcoma s	Phase 2		July 19, 201 9	Jul y 20 23
NCT03099 109	A Study of LY3321367 Alone or With LY3300054 in Participants With Advanced Relapsed/Refractory Solid Tumors	Active, not recruit ing	PD-L1	Tim-3 Biomarker	Solid Tumor	Phase 1		Apr il 12, 201 7	Ju ne 20 20
NCT03752 177	A Study of LY3415244 in Participants With Advanced Solid Tumors	Termi nated	PD-L1	Tim-3 Biomarker	Solid Tumor	Phase 1	Stoppe d withou t public explan ation.	Nov 22, 201 8	Oc t 20 19
NCT03744 468	Study of BGB-A425 in Combination With Tislelizumab in Advanced Solid Tumors	Recrui ting	-	Tim-3 Biomarker	Solid tumors	Phase 1  Phase 2		Nov 13, 201 8	De c 20 21

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**Table S6.** Clinical trials implicating galectins as biomarkers (6).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA TE	EN D DA TE
NCT01100 944	A Phase 1/2 Study of PXD101 (Belinostat) in Combination With Cisplatin, Doxorubicin and Cyclophosphamide in the First Line Treatment of Advanced or Recurrent Thymic, Malignancies	Termi nated	HDAC +Radiot h +Chemo th	Tim-3 Biomarker	Thymic malignac ies	Phase 1  Phase 2	2 out of 6 patient s experie nced a dose limitin g toxicity (DLT).	Mar 4, 201 0	Oc t 20 15
NCT03307 785	Study of Niraparib, TSR-022, Bevacizumab, and Platinum- Based Doublet Chemotherapy in Combination With TSR-042	Active, not recruit ing	PD-1 + VEGF +Chemo th	Tim-3 Biomarker	Various	Phase 1		Oct 12, 201 7	Fe b 20 21
NCT03058 289	A Phase 1/2 Safety Study of Intratumorally Dosed INT230-6	Recrui ting	Chemot h	Tim-3 Biomarker	Various	Phase 1  Phase 2		Feb 9, 201 7	Oc t 20 22
NCT03595 124	A Study to Compare Treatments for a Type of Kidney Cancer Called TFE/Translocation Renal Cell Carcinoma (tRCC)	Recrui ting	multiple	Tim-3 Biomarker	Various	Phase 2		Oct 9, 201 8	Jan 9, 20 24
NCT03684 785	Intratumoral AST-008 Combined With Pembrolizumab in Patients With Advanced Solid Tumors	Recrui ting	PD-1 + Anti- TLR9	Tim-3 Biomarker	Various	Phase 1  Phase 2		Dec 13, 201 8	Ap r 20 21

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**Table S7.** Clinical trials using galectins inhibitors (1).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DAT E	EN D DA TE
NCT017243 20	A Phase 1, First-in-man Study of OTX008 Given Subcutaneously as a Single Agent to Patients With Advanced Solid Tumors	Unkno wn status	Gal-1		Solid Tumors	Phase 1		Feb 201 2	Ma y 20 13
NCT003887 00	A New Agent GM-CT-01 in Combination With 5-FU, Avastin and Leucovorin in Subjects With Colorectal Cancer	Withdr awn	Galectin s	Gal-3 Biomarker	Colorect al Cancer	Phase 2		Oct 200 6	
NCT007768 02	GCS-100LE in Combination With Etoposide and Dexamethasone in Relapsed or Refractory Diffuse Large B- Cell Lymphoma	Withdr awn	Gal-3		Lympho ma	Phase 1 Phase 2		July 200 8	Ap r 20 09
NCT017238 13	Peptide Vaccinations Plus GM-CT-01 in Melanoma	Termin ated	Gal-3 +Vaccine		Metastat ic Melano ma	Phase 1 Phase 2	[1–2]	Apr 201 2	Ap r 20 15
NCT016818 23	Effect of Modified Citrus Pectin on PSA Kinetics in Biochemical Relapsed PC With Serial Increases in PSA	Compl eted	Gal-3		Prostatic Neoplas ms	Phase 2	[3–8]	Jun e 201 3	Jan 20 20

**Table S8.** Clinical trials using galectins inhibitors (2).

CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA TE	EN D DA TE
NCT01100 944	A Phase 1/2 Study of PXD101 (Belinostat) in Combination With Cisplatin, Doxorubicin and Cyclophosphamide in the First Line Treatment of Advanced or Recurrent Thymic, Malignancies	Termi nated	HDAC +Radiot h +Chemo th	Tim-3 Biomarker	Thymic maligna cies	Phase 1 Phase 2	2 out of 6 patient s experi enced a dose limitin g toxicit y (DLT).	Ma r 4, 201 0	Oc t 20 15
NCT03307 785	Study of Niraparib, TSR-022, Bevacizumab, and Platinum- Based Doublet Chemotherapy in Combination With TSR-042	Active, not recruit ing	PD-1 + VEGF +Chemo th	Tim-3 Biomarker	Various	Phase 1		Oct 12, 201 7	Fe br 20 21
NCT03058 289	A Phase 1/2 Safety Study of Intratumorally Dosed INT230-6	Recrui ting	Chemot h	Tim-3 Biomarker	Various	Phase 1 Phase 2		Feb 9, 201 7	Oc t 20 22
NCT03595 124	A Study to Compare Treatments for a Type of Kidney Cancer Called TFE/Translocation Renal Cell Carcinoma (tRCC)	Recrui ting	multiple	Tim-3 Biomarker	Various	Phase 2		Oct 9, 201 8	Ja n 20 24
NCT03684 785	Intratumoral AST-008 Combined With Pembrolizumab in Patients With Advanced Solid Tumors	Recrui ting	PD-1 + Anti- TLR9	Tim-3 Biomarker	Various	Phase 1 Phase 2		Dec 13, 201 8	Ap r 20 21

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**Table S9.** Clinical trials using galectins inhibitors (3).

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CLINICAL TRIAL NUMBERS	TITLE	STATU S	TARGET S	BIOMARK ERS	TUMOR TYPES	PHAS ES	RESUL TS	STA RT DA TE	EN D DA TE
NCT02817 633	A Phase 1 Study of TSR-022, an Anti-TIM-3 Monoclonal Antibody, in Patients With Advanced Solid Tumors (AMBER)	Recruit ing	TIM-3		Solid Tumors	Phase 1		July 201 6	Jun e 20 22
NCT03652 077	A Safety and Tolerability Study of INCAGN02390 in Select Advanced Malignancies	Recruit ing	TIM-3		Various	Phase 1		Aug 29, 201 8	Jan 20 21
NCT00110 721	GM-CT-01 Plus 5-Fluorouracil as Third- or Fourth-Line Therapy for Metastatic Colorectal Cancer	Termin ated	Galectin s + ADN		Colorect al Cancer	Phase 2	Stoppe d withou t public explan ation.	Ma y 200 5	Ma r 20 12
NCT00054 977	Safety of GM-CT-01 With and Without 5-Fluorouracil in Patients With Solid Tumors	Compl eted	Galectin s + DNA		various	Phase 1		Feb 200 3	
NCT02117 362	Galectin Inhibitor (GR-MD- 02) and Ipilimumab in Patients With Metastatic Melanoma	Compl eted	Galectin s (Gal-3) + PD-1		Metasta tic Melano ma	Phase 1	Stoppe d and Contin ued by NCT02 575404	Ma y 8, 201 4	No v 20 18
NCT02575 404	GR-MD-02 Plus Pembrolizumab in Melanoma, Non-small Cell Lung Cancer, and Squamous Cell Head and Neck Cancer Patients	Recruit ing	Galectin s (Gal-3) + PD-1		Various	Phase 1		Ma y 16, 201 6	

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