Patient ID	Age	Sex	Race	BMI	Hypertension	Congestive Heart Failure	Myocardial Infarction	Stroke	Peripheral Vascular Disease	Diabetes	Hyperlipidemia	Smoker	Cancer	Chemo	Ca Blocker	Beta Blocker	Ace Inhibitors	Nitrates	Hypertensive meds	Statin	Cholesterol meds	Insulin	Diabetic meds
14157	62	M	Caucasian	26.1			1																
14184	72	M	Caucasian	30.4	1		1				1		1			1		1		1			
14212	56	M	Caucasian	29			1				1					1							
14223	62	M	Caucasian	46.2	1	1			1	1	1												
14307	76	M	Caucasian	26.8	1						1				1	1							
14536	Unknown	F	Caucasian	36.8	1																		
14541	79	M	Caucasian	27							1				1	1							
14633	36	F	Caucasian	20.7									1										
14657	67	M	Caucasian	24.8			1				1	1			1	1		1					
15209	64	F	Not determined	28.2	1						1				1	1			1	1	1		
15386	78	M	Caucasian	28.5	1						1					1	1	1		1	1		
15389	58	F	African American	30.1											1	1		1		1			
15404	75	F	Caucasian	29.1	1					1													
15593	69	F	Caucasian	25.1	1																		
15666	70	M	Caucasian	28.2	1		1	1		1						1							
15730	71	M	Caucasian	33.1	1						1							1	1				
15792	61	M	Caucasian	29.1	1	1				1	1	1							1				1
15917	56	F	African American	33.1	1	1					1					1				1			
15952	75	M	Caucasian	29.2	1	1	1		1	1	1					1		1	1	1			1
C231	75	M	Caucasian	23.9	1		1		1		1						1			1			
C446	75	F	African American	30.9	1										1				1	1			
C477	56	F	Caucasian	32.6	1					1					1				1	1		1	1
C576	68	M	Caucasian	26.6	1		1			1	1				1	1		1		1			1
C616	65	M	Caucasian	25.6		1					1	1	1			1		1	1	1			
C633	66	F	Caucasian	27.6	1	1				1	1	1	1	1		1			1				
C695	68	F	Caucasian	36.8	1					1						1				1	1		1
C701	70	M	Caucasian	23	1						1					1			1	1			
14499	68	M	Caucasian	20.8	1											1		1					
G05U84XC62	80+	M	Caucasian	26.9	1		1				1				1	1		1					
G7NF16AK55	73	M	Caucasian	32.5							1				1	1	1	1					
13303	76	M	Caucasian	24.8	1		1				1					1							
14536		F	Caucasian	36.8	1																		
G2UM21XO00	49	M	African American	31.7	1	1	1		1	1	1	1			1	1	1	1	1				
G4TA27NO11	66	F	Caucasian	45.9	1	1				1	1		1	1	1	1	1		1				
G8BA93RU76	76	M	Caucasian	28	1						1												
16027	49	M	Caucasian	33.7	1																1		
G8PD88RV42	53	M	Caucasian	36.5	1		1		1		1				1	1		1					
C827	65	F	African American	31.9							1		1							1			
16192	70	F	Caucasian	36.9	1		1	1			1	1											
C838	80	F	Caucasian	23.7	1						1					1				1			
C842	79	M	Caucasian	26.6	1		1				1	1	1	1		1			1	1			1
16190	69	M	Caucasian	29.1												1		1		1			
C844	75	M	Caucasian	26.4	1						1		1					1	1	1			

Experiment:	CAD vessels (untreated) were subject to FMD

Experiment Information				Preconstriction		Dilator Dose Response								Other		
RAW DATA ENTRY																
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
May 23, 2019	11648	14157		130	68.2	129.5	91.3	86.7	87.9	90.8	105.2	119.1	128.9		127.7	86.7
May 24, 2019	11656	14157		165.5	102.3	147.4	102.3	105.8	136.3	143.3	146.2	152.6	160.8		162.6	105.8
July 15, 2020	12677	14541	1.5	122	97	117	81	83	89	99	103	108	114		118	83
July 15, 2020	12676	14541	1	186.1	120.6	181.9	83	76	99.2	155.6	166	179	179.5		179	76
June 5, 2019	11704	14184		249	169.7	228.0	128.7	128.7	131.8	134.9	148.3	216.1	233		242.5	128.7
June 27, 2019	11798	14212		211.1	169.7	215.3	59.8	59.8	59.8	71.3	96.8	162.8	172		211.1	59.8
July 10, 2019	11816	14223		88	44	88	59	59	59	59	81	85	86		88	59.4

% Max Dilation Calculated

DATE	Raw Data Sheet #	PATIENT ID				% TONE	ET-1 preconst % (5 min)	% (10 min)	flow 5mmHg	flow 10mmHg	flow 20mmHg	flow 50mmHg	flow 100mmHg	Max Diameter	Papaverine % dil.	% const.
5/23/19	11648	14157				0.00%	29.5%	33.1%	**2.8%**	**9.6%**	**43.2%**	**75.7%**	**98.6%**	130	95.8%	33.1%
5/24/19	11656	14157				10.94%	38.2%	36.1%	**51.1%**	**62.8%**	**67.7%**	**78.4%**	**92.1%**	166	95.1%	38.2%
7/15/20	12677	14541				4.10%	33.6%	32.0%	**15.4%**	**41.0%**	**51.3%**	**64.1%**	**79.5%**	122	89.7%	33.6%
7/15/20	12676	14541				2.26%	55.4%	59.2%	**21.1%**	**72.3%**	**81.7%**	**93.6%**	**94.0%**	186	93.6%	59.2%
6/5/19	11704	14184				8.43%	48.3%	48.3%	**2.6%**	**5.2%**	**16.3%**	**72.7%**	**86.7%**	249	94.6%	48.3%
6/27/19	11798	14212				-1.99%	71.7%	71.7%	**0.0%**	**7.6%**	**24.5%**	**68.1%**	**74.2%**	211	100.0%	71.7%
7/10/19	11816	14223				0.00%	32.3%	32.3%	**0.0%**	**0.0%**	**77.0%**	**89.4%**	**94.7%**	88	100.0%	32.3%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels treated with MitoTempol (10uM) for 30mins and then subject to FMD

Experiment Information				Preconstriction		Dilator Dose Response							Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
August 2, 2023	15843	C827		265	126	265.0	104	104	95	104	113	117	118		259	104
August 16, 2023	15882	C838		159	125	159	83	82	74	81	77	76	71		159	82
August 24, 2023	15935	C844		135	124	135	98	98	95	96	91	95	93		135	98
August 24, 2023	15936	16190		163	143	163	56	56	66	66	60	80	94		160	56

% Max Dilation Calculated															
	Raw Data	PATIENT			%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID			TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
8/2/23	15843	C827			0.00%	60.8%	60.8%	**-8.7%**	**0.0%**	**5.6%**	**8.1%**	**8.7%**	265	96.3%	60.8%
8/16/23	15882	C838			0.00%	47.8%	48.4%	**-9.8%**	**-1.2%**	**-6.1%**	**-7.3%**	**-13.4%**	159	100.0%	48.4%
8/24/23	15935	C844			0.00%	27.4%	27.4%	**-3.1%**	**-2.0%**	**-7.1%**	**-3.1%**	**-5.1%**	135	100.0%	27.4%
8/24/23	15936	16190			0.00%	65.6%	65.6%	**9.3%**	**9.3%**	**3.7%**	**22.4%**	**35.5%**	163	97.2%	65.6%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels treated with Catalase (500U/ml) for 30mins and then subject to FMD

Experiment Information				Preconstriction					Dilator Dose Response					Other		
RAW DATA ENTRY																
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
August 2, 2023	15843	C827		265	126	265.0	106	106	84	83	79	73	69		257	106
August 16, 2023	15882	C838		159	125	159	68	74	72	79	74	63	84		149	74
August 24, 2023	15936	16190		163	143	150	73	73	79	79	89	95	69		163	73
August 24, 2023	15937	16192		175	136	168	55	55	47	47	59	78	80		175	55

% Max Dilation Calculated															
	Raw Data	PATIENT				%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
8/2/23	15843	C827				0.00%	60.0%	60.0%	**-20.8%**	**-21.7%**	**-25.5%**	**-31.1%**	**-34.9%**	265	95.0%	60.0%
8/16/23	15882	C838				0.00%	57.2%	53.5%	**-2.7%**	**5.9%**	**0.0%**	**-14.9%**	**11.8%**	159	88.2%	57.2%
8/24/23	15936	16190				7.98%	55.2%	55.2%	**6.7%**	**6.7%**	**17.8%**	**24.4%**	**-5.5%**	163	100.0%	55.2%
8/24/23	15937	16192				4.00%	68.6%	68.6%	**-14.5%**	**-14.5%**	**3.3%**	**19.2%**	**20.8%**	175	100.0%	68.6%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels treated with L-NAME (100uM) for 30mins and then subject to FMD

Experiment Information				Preconstriction		Dilator Dose Response							Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
August 2, 2023	15843	C827		265	126	260.0	111	111	128	157	208	222	240		265	111
August 16, 2023	15882	C838		180	173	180	108	108	129	139	156	161	170		170	108
August 24, 2023	15937	16192		175	136	175	120	120	126	154	154	157	158		172	120

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
8/2/23	15843	C827				1.89%	58.1%	58.1%	**11.0%**	**29.9%**	**63.0%**	**72.1%**	**83.8%**	265	100.0%	58.1%
8/16/23	15882	C838				0.00%	40.0%	40.0%	**29.2%**	**43.1%**	**66.7%**	**73.6%**	**86.1%**	180	86.1%	40.0%
8/24/23	15937	16192				0.00%	31.4%	31.4%	**10.9%**	**61.8%**	**61.8%**	**67.3%**	**69.1%**	175	94.5%	31.4%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with GW4869 (4uM) for 30min in the bath and then FMD

Experiment Information				Preconstriction		Dilator Dose Response							Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
October 11, 2022	15008	15730		95	68	95.0	49	49	41	43	45	55	64		95	49
October 12, 2022	15044	C576		152	118	145.0	68	68	76	69	93	114	125		152	68
November 18, 2022	15135	15792		126	107	120	65	64	110	111	105	97	97		129	64
January 5, 2023	15243	C633		155	100	155	80	78	53	57	59	74	108		141	78
March 14, 2023	15456	C695		219	140	196	108	105	95	99	112	131	121		219	105

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
10/11/22	15008	15730				0.00%	48.4%	48.4%	**-16.3%**	**-12.2%**	**-8.2%**	**13.0%**	**32.6%**	95	100.0%	48.4%
10/12/22	15044	C576				4.61%	55.3%	55.3%	**9.5%**	**1.2%**	**29.8%**	**54.8%**	**67.9%**	152	100.0%	55.3%
11/18/22	15135	15792				6.98%	49.6%	50.4%	**70.8%**	**72.3%**	**63.1%**	**50.8%**	**50.8%**	129	100.0%	50.4%
1/5/23	15243	C633				0.00%	48.4%	49.7%	**-32.1%**	**-26.9%**	**-24.4%**	**-5.1%**	**39.0%**	155	81.8%	49.7%
3/14/23	15456	C695				10.50%	50.7%	52.1%	**-9.5%**	**-5.7%**	**6.1%**	**22.8%**	**14.0%**	219	100.0%	52.1%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with GW4869 (4uM)+ C2-Ceramide (10uM) for 30min in the bath and then FMD

Experiment Information				Preconstriction		Dilator Dose Response							Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
November 18, 2022	15135	15792		126	107	129	57	57	107	94	104	119	126		125	57
January 5, 2023	15243	C633		155	100	155	60	59	58	59	72	90	110		141	59
February 22, 2023	15427	15917		170	110	160	99	100	133	140	140	139	139		165	100
March 15, 2023	15459	15952		170	102	170	92	94	111	116	125	122	115		166	94
March 21, 2023	15480	C701		169	109	150	62	63	95	106	100	100	105		150	63

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
11/18/22	15135	15792				-2.38%	54.8%	54.8%	**72.5%**	**53.6%**	**68.1%**	**89.9%**	**100.0%**	126	98.6%	54.8%
1/5/23	15243	C633				0.00%	61.3%	61.9%	**-1.7%**	**0.0%**	**13.5%**	**32.3%**	**53.1%**	155	85.4%	61.9%
2/22/23	15427	15917				5.88%	41.8%	41.2%	**47.1%**	**57.1%**	**57.1%**	**55.7%**	**55.7%**	170	92.9%	41.8%
3/15/23	15459	15952				0.00%	45.9%	44.7%	**22.4%**	**28.9%**	**40.8%**	**36.8%**	**27.6%**	170	94.7%	45.9%
3/21/23	15480	C701				11.24%	63.3%	62.7%	**30.2%**	**40.6%**	**34.9%**	**34.9%**	**39.6%**	169	82.1%	63.3%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with GW4869 (4uM)+S1P (1uM) for 30min in the bath and then FMD

Experiment Information				Preconstriction		Dilator Dose Response							Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
February 22, 2023	15428	15917		115	88	119	99	100	133	140	140	139	139		165	100
March 14, 2023	15457	C695		125	86	123	43	43	39	39	45	34	40		125	43
March 15, 2023	15455	15952		109	95	109	42	40	40	45	52	62	66		107	40
May 17, 2023	15593	16027		155	131	155	67	67	67	85	69	95	80		147	67

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
2/22/23	15428	15917				27.88%	40.0%	39.4%	**50.8%**	**61.5%**	**61.5%**	**60.0%**	**60.0%**	165	100.0%	40.0%
3/14/23	15457	C695				1.60%	65.6%	65.6%	**-9.3%**	**-9.3%**	**2.4%**	**-20.9%**	**-7.0%**	125	100.0%	65.6%
3/15/23	15455	15952				0.00%	61.5%	63.3%	**0.0%**	**7.2%**	**17.4%**	**31.9%**	**37.7%**	109	97.1%	63.3%
5/17/23	15593	16027				0.00%	56.8%	56.8%	**0.0%**	**20.5%**	**2.3%**	**31.8%**	**14.8%**	155	90.9%	56.8%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels treated with Spk-inhibitor (1uM) for 30mins and then subject to FMD

Experiment Information				Preconstriction		Dilator Dose Response						Other		
RAW DATA ENTRY														
	Raw Data	PATIENT	Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID	ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
September 25, 2020	12940	G4TA27NO11	136.4	78.5	136.4	91.2	91.2	124.5	129.1	132.6	132.6	132.6		133	91.2
September 29, 2020	12948	14633	123	90.8	121.5	58.6	59.4	109.6	112.3	115.3	118.4	119.5		123	59.4
September 30, 2020	12949	G8PD88RV42	162	97	155	89	89	94	140	147	143	160		162	88.9
December 4, 2021	14267	15386	153	111	144	79	76	127	141	146	146	149		153	76
December 9,2021	14273	15389	91	72	81	53	59	76	83	83	85	85		91	59

% Max Dilation Calculated

	Raw Data	PATIENT		%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID		TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
9/25/20	12940	G4TA27NO11		0.00%	33.1%	33.1%	**73.7%**	**83.8%**	**91.6%**	**91.6%**	**91.6%**	136	92.5%	33.1%
9/29/20	12948	14633		1.22%	52.4%	51.7%	**78.9%**	**83.2%**	**87.9%**	**92.8%**	**94.5%**	123	100.0%	52.4%
9/30/20	12949	G8PD88RV42		4.50%	45.2%	45.2%	**6.3%**	**69.5%**	**79.5%**	**73.8%**	**96.9%**	162	99.5%	45.2%
12/4/21	14267	15386		5.88%	48.4%	50.3%	**66.2%**	**84.4%**	**90.9%**	**90.9%**	**94.8%**	153	100.0%	50.3%
December 9,2021	14273	15389		10.99%	41.8%	35.2%	**53.1%**	**75.0%**	**75.0%**	**81.3%**	**81.3%**	91	100.0%	41.8%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels treated with W146 (10uM) for 30mins and then subject to FMD

Experiment Information				Preconstriction		Dilator Dose Response							Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
December 9,2021	14272	15389		119	86	112.0	58	58	78	91	97	102	102		119	58
May 24, 2019	11656	14157		165.5	102	165.5	94.2	97.7	100.6	122.5	133.5	142.7	142.7		158.5	97.7
July 2, 2020	12647	14536	0.4	157.6	96.1	154.4	44	46.3	65	126.9	141.4	152.9	153.4		157.6	46.3
June 5, 2019	11704	14184		249	169.7	206.1	130.3	128.7	210	222.2	224.1	220.3	229.6		249	128.7
June 27, 2019	11798	14212		211.1	169.7	200.4	91.4	93.1	91.6	124.1	134.5	153.3	154.4		202.7	93.1
July 10, 2019	11816	14223		88	44	80.8	40.2	43.7	43.7	49	60.2	71.6	72		83.5	43.7

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
December 9,2021	14272	15389				5.88%	51.3%	51.3%	**32.8%**	**54.1%**	**63.9%**	**72.1%**	**72.1%**	119	100.0%	51.3%
5/24/19	11656	14157				0.00%	43.1%	41.0%	**4.3%**	**36.6%**	**52.8%**	**66.4%**	**66.4%**	166	89.7%	43.1%
7/2/20	12647	14536				2.03%	72.1%	70.6%	**16.8%**	**72.4%**	**85.4%**	**95.8%**	**96.2%**	158	100.0%	72.1%
6/5/19	11704	14184				17.23%	47.7%	48.3%	**67.6%**	**77.7%**	**79.3%**	**76.1%**	**83.9%**	249	100.0%	48.3%
6/27/19	11798	14212				5.07%	56.7%	55.9%	**-1.6%**	**26.3%**	**35.1%**	**51.0%**	**51.9%**	211	92.9%	56.7%
7/10/19	11816	14223				7.87%	54.2%	50.2%	**0.0%**	**12.0%**	**37.5%**	**63.4%**	**64.3%**	88	90.5%	54.2%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels treated with CAY10444 (10uM) for 30mins and then subject to FMD

Experiment Information				Preconstriction				Dilator Dose Response					Other	
RAW DATA ENTRY														
	Raw Data	PATIENT	Max	HUNG	ET-1	ET-1	ET-1	flow	flow	flow	flow	flow		Papaverine	ET
Experiment Date	Sheet #	ID	ID	COLD ID	PRE	5 MIN	10 MIN	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg		-4 logM	post
September 25, 2020	12940	G4TA27NO11	136.4	78.5	136.4	91.2	91.2	124.5	129.1	132.6	132.6	132.6		133	91.2
September 29, 2020	12948	14633	123	90.8	121.5	58.6	59.4	109.6	112.3	115.3	118.4	119.5		123	59.4
September 30, 2020	12949	G8PD88RV42	162	97	155	89	89	94	140	147	143	160		162	88.9
December 4, 2021	14267	15386	153	111	144	79	76	127	141	146	146	149		153	76
December 9,2021	14273	15389	91	72	81	53	59	76	83	83	85	85		91	59
June 24, 2022	14771	15593	115	100	130	49	49	49	52	72	84	93		112	49

% Max Dilation Calculated														
	Raw Data	PATIENT		%	ET-1 preconst		flow	flow	flow	flow	flow	Max	Papaverine	
DATE	Sheet #	ID		TONE	% (5 min)	% (10 min)	5mmHg	10mmHg	20mmHg	50mmHg	100mmHg	Diameter	% dil.	% const.
9/25/20	12940	G4TA27NO11		0.00%	33.1%	33.1%	**73.7%**	**83.8%**	**91.6%**	**91.6%**	**91.6%**	136	92.5%	33.1%
9/29/20	12948	14633		1.22%	52.4%	51.7%	**78.9%**	**83.2%**	**87.9%**	**92.8%**	**94.5%**	123	100.0%	52.4%
9/30/20	12949	G8PD88RV42		4.50%	45.2%	45.2%	**6.3%**	**69.5%**	**79.5%**	**73.8%**	**96.9%**	162	99.5%	45.2%
12/4/21	14267	15386		5.88%	48.4%	50.3%	**66.2%**	**84.4%**	**90.9%**	**90.9%**	**94.8%**	153	100.0%	50.3%
December 9,2021	14273	15389		10.99%	41.8%	35.2%	**53.1%**	**75.0%**	**75.0%**	**81.3%**	**81.3%**	91	100.0%	41.8%
6/24/22	14771	15593		-13.04%	57.4%	57.4%	**0.0%**	**4.5%**	**34.8%**	**53.0%**	**66.7%**	115	95.5%	57.4%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels (untreated) were subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

Experiment Information					Preconstriction			Dilator Dose Response					Other		
RAW DATA ENTRY															
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
October 4, 2019	12157	14307		286.2	171.3	279.3	113.4	116.1	116.1	105.7	107.7	234.9	269.7		286.2	116.1
September 30, 2020	12950	G8PD88RV42		110	74	108	77	72	72	72	77	82	82		110	72
October 6, 2020	12979	G2UM21XO00		121.8	101.5	118	75.5	70.1	70.1	75.1	75.1	83.9	87		118.1	70.1
December 9, 2021	14268	15389		100	55	98	42	42	48	53	56	68	75		100	42
October 12, 2022	15044	C576		152	118	145	55	55	57	66	76	78	81		146	55

% Max Dilation Calculated															
	Raw Data	PATIENT			%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID			TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
10/4/19	12157	14307			2.41%	60.4%	59.4%	**0.0%**	**-9.0%**	**-7.2%**	**69.8%**	**90.3%**	286	100.0%	60.4%
9/30/20	12950	G8PD88RV42			1.46%	30.1%	34.3%	**0.0%**	**0.0%**	**14.4%**	**27.7%**	**27.7%**	110	100.0%	34.3%
10/6/20	12979	G2UM21XO00			3.12%	38.0%	42.4%	**0.0%**	**9.7%**	**9.7%**	**26.7%**	**32.7%**	122	92.8%	42.4%
12/9/21	14268	15389			2.00%	58.0%	58.0%	**10.3%**	**19.0%**	**24.1%**	**44.8%**	**56.9%**	100	100.0%	58.0%
10/12/22	15044	C576			4.61%	63.8%	63.8%	**2.1%**	**11.3%**	**21.6%**	**23.7%**	**26.8%**	152	93.8%	63.8%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with L-NAME (100uM) for 30mins and then subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

Experiment Information				Preconstriction			Dilator Dose Response					Other		
RAW DATA ENTRY														
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
October 13, 2020	13023	G8BA93RU76		167.4	69	162.8	67.8	66.7	70.9	89.3	95	100.4	131.4		167.4	66.7
October 20, 2020	13054	14657		224.5	68.2	219.5	152.5	150.6	150.6	150.6	147.1	170.1	170.1		224.5	150.6
October 6, 2020	12979	G2UM21X00		122	101.5	118	75.5	70.1	70.1	75.1	75.1	83.9	87		118.1	70.1
September 30, 2020	12950	G8PD88Rv42		109.6	74.3	108	72	72	72	72	77.4	82.4	82.4		109.6	72
October 11, 2022	15007	15730		116	74	116	45	45	45	47	49	49	49		115	45
October 12, 2022	15009	C576		90	56	80	35	38	37	41	43	58	68		90	38
August 22, 2021	14010	15209		67	44	67	33	32	33	34	34	33	31		66	32

% Max Dilation Calculated															
	Raw Data	PATIENT			%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID			TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
10/13/20	13023	G8BA93RU76			2.75%	59.5%	60.2%	**4.2%**	**22.4%**	**28.1%**	**33.5%**	**64.3%**	167	100.0%	60.2%
10/20/20	13054	14657			2.23%	32.1%	32.9%	**0.0%**	**0.0%**	**-2.3%**	**26.4%**	**26.4%**	225	100.0%	32.9%
10/6/20	12979	G2UM21X00			3.12%	38.0%	42.4%	**0.0%**	**9.7%**	**9.7%**	**26.7%**	**32.7%**	122	92.8%	42.4%
9/30/20	12950	G8PD88Rv42			1.46%	34.3%	34.3%	**0.0%**	**0.0%**	**14.4%**	**27.7%**	**27.7%**	110	100.0%	34.3%
10/11/22	15007	15730			0.00%	61.2%	61.2%	**0.0%**	**2.8%**	**5.6%**	**5.6%**	**5.6%**	116	98.6%	61.2%
10/12/22	15009	C576			11.11%	61.1%	57.8%	**-2.6%**	**5.8%**	**9.6%**	**38.5%**	**57.7%**	90	100.0%	61.1%
8/22/21	14010	15209			0.00%	50.7%	52.2%	**2.9%**	**5.7%**	**5.7%**	**2.9%**	**-3.1%**	67	97.1%	52.2%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with CPTIO (100uM) for 30mins and then subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

RAW DATA ENTRY

Experiment Information						Preconstriction			Dilator Dose Response					Other		
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
December 9, 2021	14267	15389		114	52	95.0	46	46	48	48	48	48	48		114	46
January 6, 2021	14312	C231		125	48	125.0	57	57	57	62	62	62	62		123	57
October 11, 2022	15007	15730		116	74	116	47	48	48	48	51	51	50		110	48
October 12, 2022	15009	C576		90	56	75.0	41	43	44	52	57	64	69		80	43
March 15, 2022	15455	15952		109	95	109.0	53	53	57	64	69	72	72		104	53

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
12/9/21	14267	15389				16.67%	59.6%	59.6%	**2.9%**	**2.9%**	**2.9%**	**2.9%**	**2.9%**	114	100.0%	59.6%
1/6/21	14312	C231				0.00%	54.4%	54.4%	**0.0%**	**7.4%**	**7.4%**	**7.4%**	**7.4%**	125	97.1%	54.4%
10/11/22	15007	15730				0.00%	59.5%	58.6%	**0.0%**	**0.0%**	**4.4%**	**4.4%**	**2.9%**	116	91.2%	59.5%
10/12/22	15009	C576				16.67%	54.4%	52.2%	**2.1%**	**19.1%**	**29.8%**	**44.7%**	**55.3%**	90	78.7%	54.4%
3/15/22	15455	15952				0.00%	51.4%	51.4%	**7.1%**	**19.6%**	**28.6%**	**33.9%**	**33.9%**	109	91.1%	51.4%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with Catalase (500U/ml) for 30mins and then subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

Experiment Information						Preconstriction			Dilator Dose Response					Other		
RAW DATA ENTRY																
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
October 13, 2020	13024	G8BA93RU76		107.7	70.5	107.7	49	48.3	49.4	49.4	49.4	49.7	54		96.6	48.3
October 20, 2020	13055	14657		162	53.3	162.1	112.3	112.3	112.3	112.3	92	92	92		157.9	112.3
August 22, 2021	14010	15209	0.2	67	44	59.0	38	37	41	43	41	42	40		66	37
December 9, 2021	14267	15389		114	52	92	48	48	41	38	38	35	34		95	48

% Max Dilation Calculated															
	Raw Data	PATIENT			%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID			TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
10/13/20	13024	G8BA93RU76			0.00%	54.5%	55.2%	**1.9%**	**1.9%**	**1.9%**	**2.4%**	**9.6%**	108	81.3%	55.2%
10/20/20	13055	14657			0.00%	30.7%	30.7%	**0.0%**	**0.0%**	**-18.1%**	**-18.1%**	**-18.1%**	162	91.6%	30.7%
8/22/21	14010	15209			11.94%	43.3%	44.8%	**13.3%**	**20.0%**	**13.3%**	**16.7%**	**10.0%**	67	96.7%	44.8%
12/9/21	14267	15389			19.30%	57.9%	57.9%	**-14.6%**	**-20.8%**	**-20.8%**	**-27.1%**	**-29.2%**	114	71.2%	57.9%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with SpK-inhibitor (1uM) for 30mins and then subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

RAW DATA ENTRY

						Preconstriction			Dilator Dose Response						Other	
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
July 6, 2022	14776	C446		270	150	240.0	152	152	152	152	152	155	160		275	152
June 23, 2022	14770	15593		127	77	127.0	64	61	57	57	57	57	57		126	61
January 6, 2022	14313	C231		106	50	105	37	37	50	56	66	74	74		106	37
December 17, 2021	14296	15404		100	75	100.0	45	45	45	45	44	49	49		88	45
December 9, 2021	14268	15389		100	55	98.0	50	48	45	45	51	55	56		94	48

% Max Dilation Calculated

	Raw Data	PATIENT				%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID				TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
7/6/22	14776	C446				12.73%	44.7%	44.7%	**0.0%**	**0.0%**	**0.0%**	**2.4%**	**6.5%**	275	100.0%	44.7%
6/23/22	14770	15593				0.00%	49.6%	52.0%	**-6.6%**	**-6.6%**	**-6.6%**	**-6.6%**	**-6.6%**	127	98.5%	52.0%
1/6/22	14313	C231				0.94%	65.1%	65.1%	**18.8%**	**27.5%**	**42.0%**	**53.6%**	**53.6%**	106	100.0%	65.1%
12/17/21	14296	15404				0.00%	55.0%	55.0%	**0.0%**	**0.0%**	**-2.2%**	**7.3%**	**7.3%**	100	78.2%	55.0%
12/9/21	14268	15389				2.00%	50.0%	52.0%	**-6.3%**	**-6.3%**	**5.8%**	**13.5%**	**15.4%**	100	88.5%	52.0%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with W146 (10uM) for 30mins and then subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

Experiment Information						Preconstriction			Dilator Dose Response						Other		
RAW DATA ENTRY																	
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
July 6, 2022	14776	C446		270	150	270.0	125	125	125	125	125	125	125		270	125
July 28, 2022	14843	C477		140	110	140.0	83	83	80	78	77	77	80		130	83
June 23, 2022	14770	15593		127	77	125	68	66	68	60	60	56	50		127	66
August 25, 2022	14914	15666		73	58	73.0	49	50	52	59	59	59	59		73	50
March 22, 2023	15481	C701		133	184	184	83	83	87	89	90	110	152		170	83

% Max Dilation Calculated															
	Raw Data	PATIENT			%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID			TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
7/6/22	14776	C446			0.00%	53.7%	53.7%	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	270	100.0%	53.7%
7/28/22	14843	C477			0.00%	40.7%	40.7%	**-3.6%**	**-6.0%**	**-7.2%**	**-7.2%**	**-3.6%**	140	82.5%	40.7%
6/23/22	14770	15593			1.57%	46.5%	48.0%	**3.3%**	**-9.1%**	**-9.1%**	**-15.2%**	**-24.2%**	127	100.0%	48.0%
8/25/22	14914	15666			0.00%	32.9%	31.5%	**8.7%**	**39.1%**	**39.1%**	**39.1%**	**39.1%**	73	100.0%	32.9%
3/22/23	15481	C701			0.00%	54.9%	54.9%	**4.0%**	**5.9%**	**6.9%**	**26.7%**	**68.3%**	184	86.1%	54.9%

*Data from multiple vessels from the same patient are averaged

Experiment:	CAD vessels were treated with CAY10444 (10uM) for 30mins and then subject to increasing doses of C2-ceramide (diluted in KREBs buffer). Dilation measurements were taken 1 min after each dose.

Experiment Information						Preconstriction			Dilator Dose Response					Other		
RAW DATA ENTRY																
	Raw Data	PATIENT		Max	HUNG	ET-1	ET-1	ET-1	C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide		Papaverine	ET
Experiment Date	Sheet #	ID		ID	COLD ID	PRE	5 MIN	10 MIN	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM		-4 logM	post
July 6, 2022	14778	C446		325	220	325.0	202	202	180	178	170	170	170		315	202
July 28, 2022	14843	C477		140	110	140.0	81	82	82	80	78	83	66		130	82
June 23, 2022	14771	15593		115	100	130	57	56	55	55	55	50	51		112	56
August 25, 2022	14913	15666		67	46	67.0	40	40	41	42	42	42	44		67	40

% Max Dilation Calculated															
	Raw Data	PATIENT			%	ET-1 preconst		C2-Ceramide	C2-Ceramide	C2-Ceramid	C2-Ceramide	C2-Ceramide	Max	Papaverine	
DATE	Sheet #	ID			TONE	% (5 min)	% (10 min)	-9 logM	-8 logM	-7 logM	-6 logM	-5 logM	Diameter	% dil.	% const.
7/6/22	14778	C446			0.00%	37.8%	37.8%	-10.9%	-11.9%	-15.8%	-15.8%	-15.8%	325	91.9%	37.8%
7/28/22	14843	C477			0.00%	42.1%	41.4%	0.0%	-2.4%	-4.9%	1.7%	-19.5%	140	82.8%	42.1%
6/23/22	14771	15593			-13.04%	50.4%	51.3%	-1.8%	-1.8%	-1.8%	-10.7%	-8.9%	115	94.9%	51.3%
8/25/22	14913	15666			0.00%	40.3%	40.3%	3.7%	7.4%	7.4%	7.4%	14.8%	67	100.0%	40.3%

*Data from multiple vessels from the same patient are averaged