

The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Friday, March 31, 2023**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing	PLMM	Cloud
					Time		
ARBE	ARBE ROBOTICSLTD	ARBE	No	NASDAQ	4:00	Citadel Securities, LLC	1
BIVI	BIOVIE INCCL A NEW	BIVI	No	NASDAQ	4:00	Susquehanna Securities	2
BMEA	BIOMEA FUSION INC	BMEA	No	NASDAQ	4:00	Susquehanna Securities	2
BVS	BIOVENTUS, INC.	BVS	No	NASDAQ	4:00	Susquehanna Securities	2
CALF	PACER US SMALL CAP CASH COWS 100 ETF	CALF	No	BATS	4:00	Citadel Securities, LLC	2
CSII	Cardiovascular Systems Inc.	CSII	No	NASDAQ	4:00	Susquehanna Securities	2
CVRX	CVRX, INC.	CVRX	No	NASDAQ	4:00	Wolverine Trading, LLC	2
EHAB	ENHABIT, INC	EHAB	No	NYSE	4:00	Wolverine Trading, LLC	3
FOCS	FOCUS FINANCIAL PARTNERS, INC.	FOCS	No	NASDAQ	4:00	Susquehanna Securities	3
GRPH	GRAPHITE BIO, INC.	GRPH	No	NASDAQ	4:00	Susquehanna Securities	4
INTA	INTAPP INC	INTA	No	NASDAQ	4:00	Wolverine Trading, LLC	5
IREN	IRISENERGY LIMITED	IREN	No	NASDAQ	4:00	Citadel Securities, LLC	5

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing	PLMM	Cloud
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JBGS	JBG SMITH Properties	JBGS	No	NYSE	4:00	Citadel Securities, LLC	5
OSH	OAK STREET HEALTH INC	OSH	No	NYSE	4:00	Susquehanna Securities	7
REET	ISHARES GLOBAL REIT	REET	No	NYSE Arca	4:00	Wolverine Trading, LLC	7
SHYF	The Shyft Group, Inc.	SHYF	No	NASDAQ	4:00	Citadel Securities, LLC	8
SOVO	SOVOS BRANDS, INC	SOVO	No	NASDAQ	4:00	Wolverine Trading, LLC	8
SUMO	SUMO LOGIC, INC.	SUMO	No	NASDAQ	4:00	Susquehanna Securities	8
TA	TravelCenters of America LLC	TA	No	NASDAQ	4:00	Susquehanna Securities	8
TTOO	T2 Biosystems, Inc.	TTOO	No	NASDAQ	4:00	Citadel Securities, LLC	8
TTSH	TILE SHOP HOLDINGS INC	TTSH	No	NASDAQ	4:00	Susquehanna Securities	8
VLTA	Volta Inc.	VLTA	No	NYSE	4:00	Susquehanna Securities	9

Please contact MIAX Options Listings with any questions.

[Listings@MIAXOptions.com](mailto:Listings@MIAXOptions.com)

(609) 897-7308