

Geneva, November 10, 2022

MSCI GLOBAL MICRO CAP INDEXES

The following are changes in constituents for the MSCI Global Micro Cap Indexes which will take place as of the close of November 30, 2022.

SUMMARY PER COUNTRY:

Country	Nb of Securities Added	Nb of Securities Deleted
AUSTRALIA	27	15
BELGIUM	2	2
SWITZERLAND	2	3
DENMARK	2	0
SPAIN	2	2
FRANCE	11	3
GERMANY	9	4
NETHERLANDS	0	1
ITALY	4	1
JAPAN	21	10
HONG KONG	17	30
NORWAY	8	10
AUSTRIA	1	0
USA	116	88
CANADA	16	12
SWEDEN	19	4
UNITED KINGDOM	24	18
FINLAND	7	2
NEW ZEALAND	2	0
IRELAND	1	0
ISRAEL	6	17
SINGAPORE	2	4

MSCI AUSTRALIA INDEX

Additions

ALKANE RESOURCES
APPEN
ATTURRA
AUSTRALIAN STRATEGIC
BETMAKERS TECH GROUP
CHRYSOS CORPORATION
CITY CHIC COLLECTIVE
DGL GROUP
DIATREME RESOURCES
DREADNOUGHT RESOURCES
EML PAYMENTS
FAR EAST GOLD
FIREFINCH
GALILEO MINING
GDI PROPERTY GROUP
ICOLLEGE
IRIS METALS
KOGAN.COM
LINDIAN RESOURCES
PACT GROUP HOLDINGS LTD
PTB GROUP
RED 5
SG FLEET GROUP
SOUTHERN CROSS MEDIA GRP
ST BARBARA
TUAS GROUP
WESTGOLD RESOURCES

Deletions

AERIS ENVIRONMENTAL
ALEXIUM INTERNATIONAL
ARGOSY MINERALS
ARMOUR ENERGY
BOART LONGYEAR CDI
DW8
ELIXINOL WELLNESS
HILLS
JUNO MINERALS
KEYPATH EDUCATION CDI
MATSU RESOURCES
NUCHEV
REGENEUS LTD
TERRACOM
WHITE ENERGY CO

MSCI BELGIUM INDEX

Additions

BNB BANQUE NATL BELGIQUE
CARE PROPERTY INVEST

Deletions

EXMAR
OXURION

MSCI SWITZERLAND INDEX
Additions
MOLECULAR PARTNERS
SCHWEIZERISCH NATL BANK

Deletions
BASELLAND KANTONBK PART
THURGAUER KANTONALBANK
VARIA US PROPERTIES

MSCI DENMARK INDEX
Additions
ENNOGIE SOLAR GROUP
SP GROUP

Deletions
None

MSCI SPAIN INDEX
Additions
AUDAX RENOVABLES
ENERSIDE ENERGY

Deletions
BIOTECHNOLOGY ASSETS
MEDCOM TECH

MSCI FRANCE INDEX
Additions
ARAMIS GROUP
DELTA PLUS GROUP
ENTECH
GROUPE GUILLIN
GROUPE OKWIND
LHYFE
LNA SANTE
PIERRE & VACANCES
SOLUTIONS 30 SE
VANTIVA
VISIONMED GROUP

Deletions
LYSOGENE
MANUTAN INTERNATIONAL
NAVYA

MSCI GERMANY INDEX
Additions
ADLER GROUP
BIKE24 HOLDING
ECOTEL COMMUNICATION
FRIEDRICH VORWERK GROUP
MEDIA AND GAMES INVEST
NORTHERN DATA
OEKOWORLD
PSI AG GESELLSCHAFT
UMWELTBANK

Deletions
AAP IMPLANTATE
BIOXXMED
ENAPTER
FIRST SENSOR

MSCI NETHERLANDS INDEX
Additions
None

Deletions
CORRE ENERGY

MSCI ITALY INDEX
Additions
ENERGY
GENERALFINANCE
IMMOBILIARE GRANDE DISTR
PATTERN

Deletions
BE

MSCI JAPAN INDEX
Additions
AB&COMPANY
ACCRETE
ALMADO
AMITA HOLDINGS
ANGES
BEWITH
CONEXIO CORP
EDP
FABRICA COMMUNICATIONS
INTLOOP
KEIYO GAS CO

Deletions
ADVENTURE
BUYSELL TECHNOLOGIES
HAKUTO CO
J TRUST CO
J-MAX CO
OKWAVE
OSAKA TITANIUM TECH CO
SHIN NIPPON BIO LAB
W SCOPE CORP
WINGARC1ST

LA HOLDINGS
MEDPEER
MENTAL HEALTH TECH
MICROWAVE CHEMICAL
NIDEC OKK CORP
PLAID
PREMIUM WATER HOLDINGS
RENEWABLE JAPAN
SUNWELS
TSUBOTA LABORATORY

MSCI HONG KONG INDEX

Additions

ACME INTL HOLDINGS LTD
AMTD IDEA GROUP A ADR
ARTA TECHFIN CORP
CA SALES HOLDINGS
CANBRIDGE PHARMACEUTICAL
CHINA MAPLE LEAF EDU(HK)
CHINA WANTIAN HOLDINGS
CT VISION SL(INTL) HLDGS
HONG KONG AEROSPACE(HK)
MIN XIN HOLDINGS(HK)
PINE CARE GROUP
PRENETICS GLOBAL
REGAL REIT
SEEC MEDIA GROUP (HK)
SILVER TIDE HOLDINGS
TELECOM SERVICE ONE HLDG
TROOPS(HK)

Deletions

AMCO UNITED HOLDING
BOSA TECHNOLOGY HLDGS
BRONCUS HOLDING
C BANNER INTL HLDGS
CHI HO DEVELOPMENT HLDGS
CHINA ASIA VALLEY GROUP
CHINA E WALLET PAYMENT
CHINA ENV ENERGY INV
COURAGE INVEST GRP (HK)
GREATER BAY AREA DYNAMIC
HILONG HOLDING (HK)
HK ASIA HOLDINGS
KINETIX SYSTEMS
KINGKEY FINANCIAL INTL
LUMINA GROUP
MOISELLE INTERNATIONAL
ORIENT VICTORY SMART
PINE TECHNOLOGY HLDGS
SHENG YUAN HOLDINGS
SOLARGIGA ENERGY (HK)
STYLAND HOLDINGS
SUPERACTIVE GROUP CO
SUPERROBOTICS HOLDINGS
TAI UNITED HOLDINGS
TIMES UNIVERSAL GROUP
TOWN HEALTH INTL MED GRP
TRANSMIT ENTERTAINMENT
WAC HOLDINGS
WVPGK HOLDINGS
YEAH YEAH GROUP HLDGS

MSCI NORWAY INDEX

Additions

ECIT B
EVERFUEL
LINK MOBILITY GROUP
MASOVAL
MEDISTIM
OCEAN GELOOP
PGS
SELVAAG BOLIG

Deletions

AVANCE GAS HOLDING
CADELER
COOL COMPANY
ICE FISH FARM
ICELANDIC SALMON
NORSKE SKOG
ODFJELL A
ODFJELL B
PCI BIOTECH
SPAREBANKEN SOR

MSCI AUSTRIA INDEX

Additions

FACC

Deletions

None

MSCI USA INDEX

Additions

374WATER INC
4D MOLECULAR
ACCELERATE DIAGNOSTICS
AEYE A
ALAUNOS THERAPEUTICS
ALZAMEND NEURO
AMERICAN PUBLIC EDU
ANNEXON

Deletions

ADMA BIOLOGICS
AEHR TEST SYSTEMS
AEROVATE THERAPEUTICS
AKERNA CORP
AKOUOS
AKOYA BIOSCIENCES
ALLIED MOTION TECH
ALTIMMUNE

APPHARVEST
APPLIED BLOCKCHAIN
ARDELYX
ASCENT SOLAR TECH
ASTRA SPACE A
AURA BIOSCIENCES
AVAYA HOLDINGS
AVEANNA HEALTHCARE HLDGS
BENEFITFOCUS
BIRD GLOBAL A
BLADE AIR MOBILITY A
BLUE BIRD (US)
BRIGHT GREEN
BRILLIANT EARTH GRP A
CANTALOUPE
CHIMERIX
CIPHER MINING
CITIZENS FINANCIAL SVCS
CONTANGO ORE
CORE SCIENTIFIC
CURO GROUP HOLDINGS CORP
DAKOTA GOLD
DANIMER SCIENTIFIC INC A
DERMTECH
DIEBOLD NIXDORF
DIVERSIFIED HEALTHCARE
DOMA HOLDINGS
DULUTH HOLDINGS B
ECB BANCORP
EMBARK TECHNOLOGY A
EMPIRE PETROLEUM CORP
EVERQUOTE A
FARADAY A
FAZE HOLDINGS
FINGERMOTION
FIVE POINT HOLDINGS A
FRANKLIN STREET PPTYS
FTAI INFRASTRUCTURE
GAMIDA CELL(US)
GANNETT CO
GLATFELTER
GLOBAL BUSINESS TRAVEL A
GROUPON
GROWGENERATION CORP
HANOVER BANCORP
HOVNANIAN ENTERPRISES A
HYDROFARM HOLDINGS
IDEANOMICS
INSEGO CORP
JOHN MARSHALL BANCORP
JOINT (THE)
LATCH
LL FLOORING
LOCAL BOUNTI
LULU'S FASH LNGE HLDG
MACROGENICS
MAGYAR BANCORP
MCEWEN MINING
MOONLAKE IMMUNO
MULLEN AUTOMOTIVE
NEOVOLTA
NEXPOINT DIV REIT
OFFERPAD SOLUTIONS A
OPAL FUELS A
OPORTUN FINANCIAL
OUSTER
PARTY CITY HOLDCO
PATHFINDER BANCORP
PEAR THERAPEUTICS A
PEDEVCO
PEPGEN
PETIQ A
PLBY GROUP
PORCH GROUP A
QUOTIENT TECHNOLOGY

ARCADIA BIOSCIENCES
ARTESIAN RESOURCES A
AVEO PHARMACEUTICALS
AVINGER
AXOGEN
BAUDAX BIO
BELLICUM PHARMACEUTICALS
BLUEBIRD BIO
BRIDGEWATER BANCSHARES
BUSINESS FIRST BANCSHS
CALYXT
CAMBRIDGE BANCORP
CHEMBIO DIAGNOSTICS
COASTAL FINANCIAL
COHBAR
CONTRAFECT CORP
COVENANT LOGISTICS GRP A
CTI BIOPHARMA CORP
CYREN US
DISTRIBUTION SOLN GRP
EDGEWISE THERAPEUTICS
ENTRADA THERAPEUTICS
EQUITY BANCSHARES
ESPERION THERAPEUTICS
ESPORTS ENTERTAINMENT
EVOKE PHARMA
EXICURE
EZCORP
FARMERS NATL BANC CORP
FIVE STAR BANCORP
FLUENCE ENERGY A
FRESH TRACKS THERAPEU
G1 THERAPEUTICS
GREENE COUNTY BANCORP
GUILD HOLDINGS CO A
HAYNES INTERNATIONAL
HBT FINANCIAL
HELIUS MEDICAL A (US)
HISTOGEN
IMPAC MORTGAGE HOLDINGS
INOTIV
JANUX THERAPEUTICS
JOBY AVIATION
KURA SUSHI USA A
LOGICMARK
METROCITY BANKSHARES
MID PENN BANCORP
MIND TECHNOLOGY
MOTORSPORT GAMES A
MOTUS GI HOLDINGS
NABRIVA THERAPEUTICS
NAVIDEA BIOPHARMA
NKARTA
NUVALENT A
NUZEE
OTONOMY
PHASEBIO PHARMACEUTICALS
PLIANT THERAPEUTICS
POLARITYTE
RICEBRAN TECHNOLOGIES
RILEY EXPLORATION
SCOPUS BIOPHARMA
SENECA FOODS CORP A
SMARTFINANCIAL
SOUTH PLAINS FINANCIAL
STH MISSOURI BANCORP
SUMMIT THERAPEUTICS (US)
TARSUS PHARMA
TETRA TECHNOLOGIES
TRANSCAT
UFP TECHNOLOGIES
UNICO AMERICAN CORP
UNIQUE FABRICATING
UNIVERSAL LOGIS HLDGS
VERTEX ENERGY

RAIN THERAPEUTICS	VITA COCO
REALREAL (THE)	VSE CORP
RELMADA THERAPEUTICS	WINDTREE THERAPEUTICS
RIGEL PHARMACEUTICALS	XPONENTIAL FITNESS A
RIGETTI COMPUTING	ZOVIO
RITE AID CORP	
RUSH STREET INTERACT A	
SELECTQUOTE	
SENTI BIOSCIENCES	
SMITH-MIDLAND CORP	
SONO-TEK CORP	
STARRY GROUP HOLDINGS A	
TACTILE SYSTEMS TECH	
THREDUP A	
TRUECAR	
UNIVERSAL ELECTRONICS	
UPLAND SOFTWARE	
UROGEN PHARMA(US)	
VAXART	
VBI VACCINES (US)	
VELODYNE LIDAR	
VERICITY	
VERITONE	
VINCO VENTURES	
VINTAGE WINE ESTATES	
VOLTA A	
WAG! GROUP	
WEAVE COMMUNICATIONS	
WEBER A	
WHEELS UP EXPERIENCE A	
WILLDAN GROUP	
WM TECHNOLOGY A	
ZIMVIE	

MSCI CANADA INDEX

Additions

AIRBOSS OF AMERICA CORP
 ARGONAUT GOLD
 BITFARMS (CA)
 CANACOL ENERGY
 CATHEDRAL ENERGY SVCS
 COPPER MOUNTAIN MINING
 ENTHUSIAST GAMING HLDGS
 H2O INNOVATION (CA)
 HLS THERAPEUTICS
 MARATHON GOLD CORP
 MIND MEDICINE
 PYROGENESIS CANADA
 REAL BROKERAGE (THE)(CA)
 REAL MATTERS
 SERNOVA CORP (CA)
 SIR ROYALTY INCOME FUND

Deletions

AEGIS BRANDS
 ALGOMA CENTRAL CORP
 AUTOMOTIVE PROP REIT
 BBTV HOLDINGS SV
 CES ENERGY SOLN CORP
 GLOBAL ATOMIC CORP
 HALO COLLECTIVE
 HEMPFUSION WELLNESS
 KIWETINOHK ENERGY
 MINCO SILVER CORP
 SHAWCOR A
 TRILOGY INTL PARTNERS

MSCI SWEDEN INDEX

Additions

4C GROUP
 ALLIGO B
 BHG GROUP
 BICO GROUP B
 BONAVA B
 FASADGRUPPEN GROUP
 FASTIGHETS AB TRIANON B
 FINGERPRINT CARDS B
 HUMBLE GROUP
 JOHN MATTSON
 LIME TECHNOLOGIES
 MOMENTUM GROUP B
 ONEFLOW
 RENEWCELL
 SEDANA MEDICAL AB
 STORYTEL B
 SVENSKA NYTTOBOSTADER
 SWEDISH LOGISTIC PPTY B

Deletions

DEXTECH MEDICAL
 ELANDERS
 NORVA24 GROUP
 SCOUT GAMING GROUP

VNV GLOBAL

MSCI UNITED KINGDOM INDEX

Additions

AVACTA GROUP
ENERAQUA TECHNOLOGIES
FOCUSRITE
GYM GROUP
HARWORTH GROUP
HOTEL CHOCOLAT GROUP
IG DESIGN GROUP
INDUSTRIALS REIT (GB)
JERSEY OIL AND GAS
JONES (WATKIN)
LUCECO
MARSTON'S
MORTGAGE ADVICE BUREAU
NICHOLS
NUMIS CORPORATION
ON THE BEACH GROUP
RESTAURANT GROUP
ROBERT WALTERS
SABRE INSURANCE GROUP
SAGA
SIGMAROC
STRIX GROUP
TREATT
XP POWER

Deletions

ABINGDON HEALTH
BANK OF CYPRUS HOLDINGS
BRAND ARCHITEKTS GROUP
CHALLENGER ENERGY GROUP
CHILL BRANDS GROUP
FORESIGHT GROUP HLDGS
HYDROGENONE CPTL GROWTH
ICG LONGBOW SENIOR SEC
MERIT GROUP
MORSES CLUB
NON-STANDARD FINANCE
NOSTRUM OIL & GAS
OMEGA DIAGNOSTICS GROUP
RAMBLER METALS & MINING
REAL ESTATE CREDIT INV
RPS GROUP
TEKMAR GROUP
TP GROUP

MSCI FINLAND INDEX

Additions

ASUNTOSALKKU
HARVIA
KAMUX
REMEDY ENTERTAINMENT
SPINNOVA
TOIVO GROUP
WITHSECURE

Deletions

BANK OF ALAND B
OMA SAASTOPANKKI

MSCI NEW ZEALAND INDEX

Additions

RESTAURANT BRANDS
SYNLAIT MILK

Deletions

None

MSCI IRELAND INDEX

Additions

CORRE ENERGY(IE)

Deletions

None

MSCI ISRAEL INDEX

Additions

ALPHA TAU MEDICAL
ARGO PROPERTIES
BAIT WEGAG IAZMOT NADLAN
COGNYTE SOFTWARE
ELECTREON WIRELESS
ICON GROUP

Deletions

B COMMUNICATIONS
CARASSO MOTORS
ERIKA B-CURE LASER
GALMED PHARMACEUTICALS
GAMIDA CELL
INDAPTUS THERAPEUTICS
INFINYA
INNOVIZ TECH
INROM CONSTRUCTION IND
ISRAEL LAND DEV
NEOGAMES
RAZOR LABS
SCOPE METALS TRAD & TECH
TEL AVIV STOCK EXCHANGE
UROGEN PHARMA
VASCULAR BIOGENICS
XLMEDIA (IL)

MSCI SINGAPORE INDEX

Additions

CHINA AVIATION OIL SG
MARCO POLO MARINE

Deletions

A SMART HOLDINGS
HONG FOK CORP
IPS SECUREX HOLDINGS
OCEAN SKY INTERNATIONAL

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