



Module 4

stress-activated
repeat
phosphatidylinositol-mediated
lipid-mediated
inositol
calcium-mediated
calcineurin-NFAT
NIK/NF-kappaB
receptor
cascade
Ras
transduction

thrombin-activated
rich
second-messenger-mediated
negative
intracellular
cytosolic
Rac
ER-nucleus
nucleotide-binding
kinase/NF-kappaB
GTPase

toll-like
recognition
oligomerization
leucine
domain
calcineurin-mediated
TORC1
MAPK
positive
ARF
TOR

Module 6

stress
contractile
depolymerization
polymerization
actin

cytoskeleton
fiber
actomyosin
assembly
filament

reorganization
structure
bundle
organization

Module 9

size

cellular

component

Module 10

negative
leukocyte
adhesion

cell-substrate
cell-matrix
integrin

Module 11

progenitor
development
lymphocyte
CD4-positive,
response

selection
hematopoietic
mononuclear
T-helper
activation

osteoclast
myeloid
leukocyte
alpha-beta

Module 12

positive
supramolecular

negative

Module 13

peptidyl-serine
dephosphorylation
autophosphorylation
phosphorylation
amino
internal
modification

peptidyl-threonine
lysine
deacylation
positive
peptidyl-tyrosine
methylation
H3
acylation

H2A
H4
alkylation
H3
acid

Module 14

reticulum
phagocytosis
nuclear
membrane
filament-based
cytosolic
axo-dendritic
mitochondrion
establishment
vesicle-mediated

retrograde
plasma
nucleocytoplasmic
microtubule
import
endocytic
axonal
COPII-coated
loading
Golgi

synapse
post-Golgi
nucleus
microtubule-mediated
intracellular
endoplasmic
cytoskeleton-dependent
actin
localization
cargo

transport,
recycling
organelle
localization,
endosome
actin
localization
endosomal

Module 15

T-helper
lymphocyte
hemopoiesis
differentiation

erythrocyte
myeloid
leukocyte

17
CD4-positive,
alpha-beta

Module 16

genome
symbiotic
interaction
viral

host
cycle
expression

replication
symbiont
gene

transcription
biological

Module 17

positive
complex
polymerization

negative
protein-containing
assembly

Module 18

negative
depolymerization
protein-containing
disassembly

organelle
cellular
component

protein-DNA
complex

Module 19

initiation
translational
translation

termination
cytoplasmic
positive

Module 20

CD4-positive,
activation

alpha-beta

Module 21

positive
actomyosin
assembly
depolymerization
actin

stress
barbed-end
cytoskeleton
organization
filament

structure
bundle
length
negative
polymerization

Module 22

actin
depolymerization
actin

polymerization

