

## List of Abbreviations and Symbols

### Chemicals and Reagents

AgNO <sub>3</sub>	:	Silver Nitrate
BCIP/NBT	:	5-bromo-4-chloro-3'-indolyphosphate/ nitro-blue tetrazolium chloride
βME	:	β-mercaptoethanol
BNPS-skatole	:	2-(2-Nitrophenylsulfenyl)-3-methyl-3- bromoindolenine)
CaCl <sub>2</sub>	:	Calcium chloride
CBB R-250	:	Coomassie Brilliant Blue R-250
Ca <sup>2+</sup>	:	Divalent calcium ion
CO <sub>2</sub>	:	Carbon dioxide
Cu <sup>2+</sup>	:	Divalent copper ion
DMSO	:	Dimethyl sulfoxide
DOPC	:	1,2-dioleoyl-sn-glycero-3-phosphocholine
DOPS	:	1,2-dioleoyl-sn-glycero-3-phospho-L-serine
DTNB	:	5, 5'-Dithio-bis(2-nitrobenzoic acid)
DTT	:	Dithiothreitol
EDTA	:	Ethylenediaminetetraacetic acid
HCl	:	Hydrochloric acid
IAA	:	Iodoacetate
MeCN	:	Acetonitrile
Mg <sup>2+</sup>	:	divalent magnesium ion
NaCl	:	Sodium chloride
NaOH	:	Sodium hydroxide
PBS	:	Phosphate Buffer Saline
p-BPB	:	para-Bromophenacyl bromide
pNA	:	para-Nitroaniline
PC	:	Phosphatidylcholine
PS	:	Phosphatidylserine
PTH	:	Phenylthiohydantoin
TCA	:	Trichloroacetic acid
TFA	:	Trifluoroacetic acid
Tris-Cl	:	Tris-HCl buffer
TBS	:	Tris buffered Saline
TBST	:	Tris buffered Saline Tween 20
Zn <sup>2+</sup>	:	Divalent zinc ion

### Proteins and Substrates

AChE	:	Acetylcholinesterase
Atx A	:	Ammodytotoxin A
BSA	:	Bovine Serum Albumin
BPTI	:	Bovine Pancreatic Trypsin Inhibitor

CRISP	:	Cysteine rich secretory protein
Dis	:	Disintegrins
Diheptanoyl thio-PC	:	Diheptanoyl Thio-phosphatidylcholine
FVa	:	activated coagulation Factor Va
FVIIa	:	activated coagulation Factor VIIa
FVIIIa	:	activated coagulation Factor VIIIa
FIXa	:	activated coagulation Factor IXa
FX	:	zymogen coagulation Factor X
FXa	:	activated coagulation Factor Xa
FXIa	:	activated coagulation Factor XIa
FXIIa	:	activated coagulation Factor XIIa
Hyp. Ptn.	:	Hypothetical protein
LAAO	:	L-amino acid oxidase
5'-NUC	:	Nucleotidase
PLA <sub>2</sub>	:	Phospholipase A <sub>2</sub>
PDE	:	Phosphodiesterase
RGD	:	Arg-Gly-Asp tripeptide
RTS	:	Arg-Thr-Ser tripeptide
sTF	:	soluble Tissue Factor
SvSP	:	Snake venom serine protease
SvMP	:	Snake venom metalloprotease
Snaclec	:	Snake C-type lectins
sTF	:	Soluble Tissue Factor
VEGF	:	Vascular endothelial growth factor
VNGF	:	Vascular nerve growth factor

### **Units and Measurements**

Å	:	Angstrom
Å <sup>2</sup>	:	Angstrom square
amu	:	Atomic mass unit
cps	:	Counts per second
cm	:	Centi meter
°C	:	Degree Centigrade
Da	:	Dalton
g	:	Gram
h	:	Hour
kDa	:	Kilo Dalton
kg	:	Kilo gram
L	:	Litre
λ <sub>EX</sub>	:	Excitation wavelength
M	:	Molar
min	:	Minute
mg	:	Milli gram
m/z	:	Mass to charge ratio
mM	:	Milli Molar
μM	:	Micro Molar
μg	:	Micro gram

µl	:	Micro litre
µm	:	Micro meter
nM	:	Nano Molar
ng	:	nano gram
nm	:	Nano mete
OD	:	Optical density
pH	:	Power/Potential of hydrogen
rpm	:	Revolutions per minute
s	:	Second
SD	:	Standard deviation

### **Miscellaneous**

AA	:	Amino acid
ACE	:	Atomic contact energy
AKI	:	Acute kidney injury
APTT	:	Activated partial thromboplastin time
ARF	:	Acute renal failure
CMA	:	Contact map analysis
C-score	:	Confidence score
C-toxin	:	Completely immunodepleted toxin
CV	:	Column volume
DMEM	:	Dulbecco modified Eagle's media
DMSO	:	Dimethyl sulfoxide
DVT	:	Deep vein thrombosis
ETC	:	Extrinsic tenase complex
ESI	:	Electrospray ionization
ESI-MS	:	Electrospray ionization-mass spectrometry
FBS	:	Fetal bovine serum
HEK-293	:	Human Embryonic Kidney-293
HIT	:	Heparin induced thrombocytopenia
IC50	:	Inhibitory concentration of 50%
i.m.	:	intramuscular
i.p.	:	intraparitoneal
I-TASSER	:	Iterative Threading Assembly Refinement
ITC	:	Intrinsic tenase complex
LC	:	Liquid chromatography
MCF-7	:	Michigan Cancer Foundation-7
MS/MS	:	Mass spectrometry mass spectrometry
MTT	:	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
NCT	:	Normal clotting time
NJ	:	Neighbour joining
NCCS	:	National Centre for Cell Science
PAGE	:	Polyacrylamide Gel Electrophoresis
PAR	:	Proteinase activated receptor
PDB	:	Protein Data Bank
PP	:	Platelet poor

PPP	:	Platelet poor plasma
PTC	:	Prothrombinase complex
PT	:	Prothrombin time
RBC	:	Red blood cell
RMSD	:	Root mean square deviation
RT	:	Recalcification time
SDS	:	Sodium dodecyl sulphate
ST	:	Stypven time
TM-score	:	Template Modeling score
TT	:	Thrombin time
3D	:	Three-dimensional
Tm	:	Melting temperature
TTO	:	Time to occlusion
PAGE	:	Polyacrylamide gel electrophoresis
PE	:	Pulmonary embolism
P-toxin	:	Partially immunodepleted toxin
PTH-AA	:	N-phenylthiohydantoin
PVDF	:	Polyvinylidene fluoride
N-toxin	:	Non-immunodepleted toxin
UV-Vis	:	Ultra violet-visible spectra
VICC	:	Venom induced consumptive coagulopathy
VTE	:	Venous Thromboembolism
WBC	:	White blood cell
Xase	:	Tenase (Extrinsic and intrinsic) complex

**The single and three letter abbreviations for amino acid residues are used as per the guidelines of the IUPAC-IUBMB Joint Commission on Biochemical Nomenclature.**