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Profiling of soluble and membrane-bound metalloproteinases

Klein, Theo

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Profiling of soluble and membrane-bound metalloproteinases

A targetted proteomics approach

Theo Klein

Paranimfen: Christa Bosgoed
Robert Bouma

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Cover: lung tissue section stained with fluorescent activity-based probe ML21

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A targetted proteomics approach

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List of abbreviations

AANH Acetic acid <i>N</i> -hydroxy succinimide	IL Interleukin
ABPP Activity-based proteomics probe	L1-CAM L1 cell adhesion molecule
ACE Automatic cartridge exchanger	LPS Lipopolysaccharide
ACN Acetonitrile	MADDAM Metalloprotease and disintegrin dendritic antigen marker
ADAM A Disintegrin And Metalloproteinase	MADM Mammalian disintegrin-metalloproteinase
ADAMTS A Disintegrin And Metalloproteinase with Thrombospondin motifs	MDC Metalloproteinase-like, disintegrin-like, cysteine-rich proteins
AP-1 Activator protein 1	MME Murine metalloelastase
APMA 4-aminophenylmercuric acetate	MMP Matrix metalloproteinase
APP Amyloid precursor peptide	MRM Multiple reaction monitoring
Aβ Amyloid beta	MS Mass spectrometry
BALF Bronchoalveolar lavage fluid	MT-MMP Membrane-type matrix metalloproteinase
BCIP 5-bromo-4-chloro-3-indoyl phosphate	NBT Nitro blue tetrazolium
BMP Bone morphogenic protein	NHS <i>N</i> -hydroxy succinimide
BPC Base peak chromatogram	NRG Neuregulin
C₈-PEG Poly-ethylene glycol monooctylether	PACE Paired basic amino acid cleaving enzyme
CD Catalytic domain	PAGE Polyacrylamide gel electrophoresis
CHL Close homologue of L-1	PAI Plasminogen activator inhibitor
CNS Central nervous system	PC Proprotein convertase
COPD Chronic obstructive pulmonary disease	PKC Protein kinase C
CUB Complement C1r/C1s, Uegf (EGF-related sea urchin protein) and BMP-1 domains	PMA Phorbol 12-myristate 13-acetate
ECM Extracellular matrix	PUMP Putative metalloproteinase
EDB Elution-digestion buffer	RAGE Receptor for advanced glycation products
EDTA Ethylenediaminetetraacetic acid	RANKL Receptor activator of NF- κ B ligand
EGF Epithelial growth factor	SAX Strong anion exchange
EGFR Epithelial growth factor receptor	SCX Strong cation exchange
EIC Extracted ion chromatogram	SDS Sodium dodecyl sulphate
EMMPRIN Extracellular matrix metalloproteinase inducer	SH3 Src homology 3
ESI Electrospray ionisation	SIR Selective ion recording
ExB Extraction buffer	SNP Single nucleotide polymorphism
FEV₁ Forced expiratory volume in 1 second	SPE Solid phase extraction
GPI Glycosyl-phosphatidyl-inositol	SPPS Solid phase peptide synthesis
HBE Human bronchial epithelia	SRM Single reaction monitoring
HB-EGF Heparin binding epithelial growth factor	TACE TNF alpha converting enzyme
HER2 Human Epidermal growth factor Receptor	TAPI TNF alpha protease inhibitor
HME Human metallo-elastase	TBST Tris buffered saline with Tween-20
HPD High pressure dispenser	TEB Trypsin equilibration buffer
HPLC High performance liquid chromatography	TGF Transforming growth factor
IGFBP Insulin-like growth factor binding protein	TIC Total ion chromatogram

TIMP Tissue inhibitor of metalloproteinases

TNF Tumour necrosis factor

t-PA Tissue plasminogen activator

TRANCE TNF related activation induced cytokine

TSR Thrombospondin type I-like repeat

TTP Thrombotic thrombocytopenic purpura

TWB Trypsin wash buffer

VCAM vascular cell adhesion molecule

VEGF Vacular endothelial growth factor

vWF von Willebrand factor

WB Western blot

