

DNA microarrays and its applications in dermatology and dermatopathology

Essay

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فَأَمَّا الزُّبْدُ
فَيَذْهَبُ جُفَاءً
وَأَمَّا مَا يَنْفَعُ
النَّاسَ فَيَمْكُثُ فِي
الْأَرْضِ



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List of abbreviations

A	: adenine
Abeta	: beta-amyloid
ADBR2	: adrenergic, beta-2-, receptor
AIF1	: allograft inflammatory factor
AK	: Actinic keratosis
AKT1	: v-akt murine thymoma viral oncogene homolog 1
ANXA8	: annexin A8
ANK3	: ankyrin 3, node of Ranvier
ATP2B1	: ATPase, Ca ⁺⁺ transporting, plasma membrane 1
ATF3	: activating transcription factor 3
BAI1	: brain-specific angiogenesis inhibitor 1
BCC	: Basal cell carcinoma
BCL2	: B-cell lymphoma 2
BCL2A1	: BCL2-related protein A1
BCL2L2	: BCL2-like 2
BIRC3	: baculoviral IAP repeat-containing 3
BIRC5	: the prevention of apoptosis (baculoviral IAP repeat-containing 5
Bp	: base pairs
BRCA1	: breast cancer 1
BUB1	: budding uninhibited by benzimidazoles 1 homolog
C	: cytosine

CC	: chemotactic cytokines
CCL-13	: chemokine (C-C motif) ligand 13
CD	: clusters of differentiation
CD24	: small cell lung carcinoma cluster
CD40L	: CD40 ligand
cdc2	: cell division cycle 2
Cdc6	: cell division cycle 6 homolog
Cdk1	: Cyclin dependent kinase 1
CDKN1A	: cyclin-dependent kinase inhibitor 1A
CDH19	: cadherin 19
CDM	: Consensus Data Mining
cDNA	: complementary DNA
CEACAM1	: carcinoembryonic antigen–related cell adhesion molecule1
CEACAM5	: Carcinoembryonic antigen-related cell adhesion molecule5
c-fos	: c-Fos protein
CGH	: comparative genomic hybridization
CHES1	: Checkpoint suppressor 1
ChgA	: Chromagranin A
CKS2	: CDC28 protein kinase regulatory subunit 2
c-Met	: met proto-oncogene
c-myc	: myelocytomatosis binding protein
CST-6	: cystatin E/M

CNTN3	: contactin-3
COX2	: Cyclooxygenase-2
cRNA	: complementary RNA
CSAG2	: CSAG family, member 2
C-ter	: carboxy-terminal
CTACK	: cutaneous T-cell attracting chemokine
CTCL	: Primary cutaneous T-cell lymphomas
CTNNAL1	: catenin a-like 1
CTSL2	: cathepsin L2
CDH1	: Cadherin1
CXCL1	: Chemokine (C-X-C motif) ligand1
CXCL-2	: chemokine (C-X-C motif) ligand 2
CXCL14	: chemokine (C-X-C motif) ligand 14
CXCR3	: chemokine (C-X-C motif) receptor 3
Cy3	: cyanine fluorphores
CYP2D6	: cytochrome P450, family 2, subfamily D, Polypeptide 6
DAP-kinase	: Death-associated protein kinase
DCT	: dopachrome tautomerase
DDB2	: damage-specific DNA binding protein 2
DKK1	: dickkopf homolog 1
DLEU1	: deleted in lymphocytic leukemia 1
DMET	: drug metabolism enzymes and transporters
DNA	: Deoxyribonucleic acid

DOCK180	: Dedicator of cytokinesis
DPP4	: dipeptidyl-peptidase 4
DSG1	: desmoglein1
DUSP2	: dual specificity phosphatase 2
ECGF1	: endothelial cell growth factor
ECOP	: EGFR-co-amplified and overexpressed protein
ECM	: extracellular matrix
EGFR	: Epidermal growth factor receptor
eIF-2	: eukaryotic translation initiation factor-2
EPHA2	: EPH receptor A2
ETV1	: Ets variant gene 1
FasL	: Fas ligand
FASTK	: Fas-activated serine/threonine kinase
FDXR	: ferredoxin reductase
FGFR2	: fibroblast growth factor receptor 2
fig1	: figure
G	: guanine
G1P3	: Gene 1 protein3
GADD45	: growth arrest and DNA-damage-inducible, alpha
GATA3	: GATA binding protein 3
GDF-15	: growth differentiation factor 15
GML	: glycosylphosphatidylinositol anchored molecule like protein
G proteins	: guanine nucleotide-binding proteins

Gro- α	: Growth related oncogene- α
GST-T1	: glutathione S-transferase theta 1
GZMB	: granzyme B
H	: hour
HCAR	: human constitutive androstane receptor
HCK	: hemopoietic cell kinase
HnRNP	: Heterogeneous nuclear ribonucleoprotein
HPS1	: Hermansky-Pudlak syndrome1
ICAM1	: intercellular adhesion molecule 1
IgM	: Immunoglobulin M
IL-1RN	: interleukin 1 receptor antagonist
IL2RB	: interleukin 2 receptor, beta
IL-4R	: interleukin 4 receptor
K1	: keratin1
KIF2C	: kinesin family member 2C
KIP2	: Kinesin-like protein
KLK9	: kallikrein 9
KRT	: keratin
LCM	: laser capture microdissection
LIR9	: leukocyte immunoglobulin-like receptor 9
LOR	: loricrin
MAPK	: mitogen-activated protein kinase
MCP-4	: monocyte chemotactic protein-4
MF	: mycosis fungoides

MHC	: major histocompatibility complex
MITF	: microphthalmia-associated transcription factor
MLANA	: melan-A
MM	: metastatic melanoma
MM	: Mismatch
MMP16	: matrix metalloproteinase 16
MMP1	: matrix metalloproteinase 1
MMP-9	: matrix metalloproteinase 9
MMPs	: matrix metalloproteinases
mRNA	: Messenger Ribonucleic Acid
MSMB	: microseminoprotein, beta
MUC15	: mucin 15
MX1	: myxovirus (influenza virus) resistance 1
Myc	: v-myc myelocytomatosis viral oncogene homolog
NADH	: reduced nicotinamide adenine dinucleotide
NGS-17	: TAP binding protein (tapasin)
NH ₂	: primary aliphatic amine
NHEK	: normal human epidermal keratinocytes
NKG7	: natural killer cell group 7 sequence
NLGN1	: neuroligin-1
NM	: nodular melanoma
nm	: nanometer

NMI	: N-myc interactor
N-myc	: V-myc myelocytomatosis viral related oncogene, neuroblastoma derived
ORF	: open reading frame
PARC	: P53-associated parkin-like cytoplasmic protein
PBCs	: peripheral blood cells
PBMC	: Peripheral blood mononuclear cell
PCD	: Piperidine-6-Carboxylate
PCDH7	: BH-protocadherin7
PCM	: primary cutaneous melanoma
PCR	: polymerase chain reaction
PDGFRL	: platelet-derived growth factor receptor-like
PITX-1	: suppressor genes (paired-like homeodomain 1
PI3	: Phosphoinositide 3-kinases
PLXNB1	: plexin B1
PLS3	: plastin3
PTCH1	: patched homologue 1
PLSCR1	: phospholipid scramblase 1
PM	: Perfect-match
PMT	: photomultiplier tubes
PP1	: Protein phosphatase 1
PSL	: photostimulated luminescence
PTP4A2	: protein tyrosine phosphatase IVA type 2
PTX3	: pentraxin-related gene

qPCR	: quantitative PCR
RAB31	: member RAS oncogene family31
RAB32	: member RAS oncogene family 32
ras	: ras family
RASSF1	: Ras association (RalGDS/AF-6) domain family member 1
RB1	: retinoblastoma 1
RGS20	: regulator of G-protein signaling 20
RELN	: reelin
RhoC	: A ras homolog gene family, member C
RNA	: Ribonucleic acid
RNASE2	: ribonuclease, RNase A family, 2
RT	: real time
SCC	: squamous cell carcinoma
SCCA1	: squamous cell carcinoma antigen
SCY	: small inducible cytokine
SCYA5	: cytokine A5
SDS	: sodium dodecyl sulphate
SERPIN	: serine protease inhibitor
SERPINB3	: Serine proteinase inhibitor, member 3
SERPING1	: serpin peptidase inhibitor, clade G
SIP-1	: survival of motor neuron protein interacting protein 1
SKAP1	: src kinase associated phosphoprotein 1
SLC3A2	: solute carrier family 3 member 2

SPP1	: Secreted phosphoprotein1
SPRR	: small proline-rich proteins
SPRR1	: small prolinerich proteins
SPRR2C	: small proline-rich protein 2C
SPT6	: septin 6
SSc	: systemic sclerosis
SSC	: sodium citrate buffer and saline
SSM	: superficial spreading melanoma
STAF50	: stimulated transacting factor of 50 kDa
STAT3	: signal transducer and activator of transcription 3
STAT4	: signal transducer and activator of transcription 4
STK6	: serine/threonine kinase 6
SynCAM	: synaptic cell adhesion molecules
S100P	: S100 calcium binding protein P
T	: thymine
TBX21	: T-box 21
Tm	: melting temperature
TMPRSS4	: transmembrane protease, serine 4
TMSL8	: thymosin-like 8
TNF	: tumour necrosis factor
TNFR2	: TNF receptor type 2
TNFRSF10D	: Decoy tumor necrosis factor receptor superfamily,member 10d
TP53I3	: tumor protein p53 inducible protein 3

TRAF1	: TNF receptor-associated factor 1
TRAIL	: Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand
Trna	: Transfer RNA
TRP-1	: tyrosinase-related protein-1
TRP-2	: tyrosine-related protein2
TSGs	: tumour suppressor genes
TYMS	: thymidylate synthetase
µg	: microgram
URF	: unidentified reading frame
UTR	: untranslated region
UV	: ultra-violet
UVB	: ultraviolet B
WAF-1	: Wild-type p53-activated fragment 1
Wnt5a	: wingless-type MMTV integration site family, member5A
WWOX	: WW domain containing oxidoreductase
XPC	: Xeroderma pigmentosum, complementation group C
ZNFN1A5	: zinc finger protein, subfamily 1A, 5

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