9. Appendix

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9.3 Abbreviations

A
app
BLAST
bp
C
°C
cDNA
cm
Da
dATP
dCTP
dGTP
DNA
DTT
dTTP
EDTA
EST
G
h
kb
m/z
MALDI
min
mL
mM
MPIMG
mRNA
MS
MTP
µg
µL
µM
NCBI
nM

adenine
approximately
basic local alignment search tool
base pairs
cytosine
degree Celsius
complementary DNA
centimeter
Dalton
2'-deoxyadenosine 5'-triphosphate
2'-deoxycytidine 5'-triphosphate
2'-deoxyguanosine 5'-triphosphate
deoxyribonucleic acid
dithiothreithole
2'-deoxythymidine 5'-triphosphate
ethylendiamine tetraacetic acid
expressed sequence tag
guanine
hour
kilo base pairs
mass-to-charge ratio
matrix-assisted laser desorption/ionization
minutes
milliliter
millimoles per liter
Max-Planck-Institute for Molecular Genetics
messenger RNA
mass spectrometry
microtiter plate
microgram
microliter
micromoles per liter
National Center of Biotechnology Information
nanomoles per liter
<table>
<thead>
<tr>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>nm</td>
<td>nanometer</td>
</tr>
<tr>
<td>OD</td>
<td>optical density</td>
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<tr>
<td>OFP</td>
<td>oligonucleotide fingerprinting</td>
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<tr>
<td>p.a.</td>
<td>pro analysi</td>
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<tr>
<td>PAMAM</td>
<td>polyamidoamine</td>
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<td>PCR</td>
<td>polymerase chain reaction</td>
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<td>PNA</td>
<td>peptide nucleic acid</td>
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<tr>
<td>RNA</td>
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</tr>
<tr>
<td>RZPD</td>
<td>Deutsches Ressourcenzentrum für Genomforschung</td>
</tr>
<tr>
<td>SAGE</td>
<td>serial analysis of gene expression</td>
</tr>
<tr>
<td>SAM</td>
<td>self-assembled monolayer</td>
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<tr>
<td>SBH</td>
<td>sequencing by hybridization</td>
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<tr>
<td>SDS</td>
<td>sodium dodecylsulfate</td>
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<tr>
<td>sec</td>
<td>seconds</td>
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<tr>
<td>SNP</td>
<td>single-nucleotide polymorphism</td>
</tr>
<tr>
<td>T</td>
<td>thymine</td>
</tr>
<tr>
<td>T&lt;sub&gt;m&lt;/sub&gt;</td>
<td>melting temperature</td>
</tr>
<tr>
<td>TEA</td>
<td>triethylamine</td>
</tr>
<tr>
<td>TEACl</td>
<td>tetraethylammonium chloride</td>
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<tr>
<td>TEMED</td>
<td>N,N,N',N'-tetramethyl-1,2-diaminomethane</td>
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<tr>
<td>TFA</td>
<td>trifluoroacetic acid</td>
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<tr>
<td>TMACl</td>
<td>tetramethylammonium chloride</td>
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<td>TOF</td>
<td>time-of-flight</td>
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<tr>
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<tr>
<td>V</td>
<td>Volt</td>
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<tr>
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<td>volume per volume</td>
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9.4 Curriculum Vitae

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Scientific Education

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Ph.D. thesis:
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Studies of Biochemistry at “Freie Universität Berlin”, degree: “Diplom-Biochemiker”
Diploma thesis:
“Functional analysis of differentially expressed genes in the embryonic development of Danio Rerio”, Max-Planck-Institute for Molecular Genetics, Department Prof. Dr. H. Lehrach, Berlin, Germany

04/98 – 04/99
Community service in the field of hematologic/oncologic research at Charité/Campus Virchow-Klinikum, Berlin, Germany

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Visiting studies of Biochemistry at St. Anne’s College, University of Oxford, England

06/93
“Abitur”, Werner-von-Siemens-Gymnasium, Berlin, Germany
9.5 Publications

9.5.1 Articles/Book chapters


**Klein, A., Miera, O., Bauer, O., Golfier, S., and Schriever, F.** Chemosensitivity of B-cell chronic lymphocytic leukemia and correlated expression of proteins regulating apoptosis, cell cycle and DNA repair. *Leukemia* 2000, 14: 40-46

9.5.2 Poster presentations

“Oligonucleotide fingerprinting by multiplex PNA hybridization and MALDI-TOF-MS”, EuroBiochips, 2002, Berlin, Germany

“Oligonucleotide fingerprinting by multiplex PNA hybridization and MALDI-TOF-MS”, German Human Genome Meeting (DHGP), 2001, Braunschweig, Germany


“Towards multiplexed oligonucleotide fingerprinting by the use of MALDI-TOF-MS”. German Human Genome Meeting (DHGP), 2000, Heidelberg, Germany