

9. Appendix

9.1 References

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9.3 Abbreviations

A	adenine
app	approximately
BLAST	basic local alignment search tool
bp	base pairs
C	cytosine
°C	degree Celsius
cDNA	complementary DNA
cm	centimeter
Da	Dalton
dATP	2'-deoxyadenosine 5'-triphosphate
dCTP	2'-deoxycytidine 5'-triphosphate
dGTP	2'-deoxyguanosine 5'-triphosphate
DNA	deoxyribonucleic acid
DTT	dithiothreithole
dTTP	2'-deoxythymidine 5'-triphosphate
EDTA	ethylenediamine tetraacetic acid
EST	expressed sequence tag
G	guanine
h	hour
kb	kilo base pairs
m/z	mass-to-charge ratio
MALDI	matrix-assisted laser desorption/ionization
min	minutes
mL	milliliter
mM	millimoles per liter
MPIMG	Max-Planck-Institute for Molecular Genetics
mRNA	messenger RNA
MS	mass spectrometry
MTP	microtiter plate
µg	microgram
µL	microliter
µM	micromoles per liter
NCBI	National Center of Biotechnology Information
nM	nanomoles per liter

nm	nanometer
OD	optical density
OFP	oligonucleotide fingerprinting
p.a.	pro analysi
PAMAM	polyamidoamine
PCR	polymerase chain reaction
PNA	peptide nucleic acid
RNA	ribonucleic acid
RZPD	Deutsches Ressourcenzentrum für Genomforschung
SAGE	serial analysis of gene expression
SAM	self-assembled monolayer
SBH	sequencing by hybridization
SDS	sodium dodecylsulfate
sec	seconds
SNP	single-nucleotide polymorphism
T	thymine
T_m	melting temperature
TEA	triethylamine
TEACl	tetraethylammonium chloride
TEMED	N,N,N',N'-tetramethyl-1,2-diaminomethane
TFA	trifluoroacetic acid
TMACl	tetramethylammonium chloride
TOF	time-of-flight
U	units
V	Volt
v/v	volume per volume
w/v	weight per volume

9.4 Curriculum Vitae

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9.5 Publications

9.5.1 Articles/Book chapters

Bauer, O., Guerasimova, A., Sauer, S., Thamm, S., Steinfath, M., Herwig, R., Janitz, M., Lehrach, H., and Radelof, U. Multiplexed hybridizations of positively charge-tagged PNA detected by MALDI-TOF mass spectrometry. *in preparation*

Bauer, O., Janitz, M., Guerasimova, A., Herwig, R., Lehrach, H., and Radelof, U. Gene Expression Analysis by Oligonucleotide Fingerprinting. in: Lorkowski S., Cullen P. (eds.), *Analyzing Gene Expression - A Handbook of Methods. Possibilities and Pitfalls.* Wiley-VCH, Weinheim 2002

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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

“Oligonucleotide fingerprinting by multiplex PNA hybridization and MALDI-TOF-MS”, 49th ASMS Conference on Mass Spectrometry and Allied Topics, 2001, Chicago, U.S.A.

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