Index of Tables

Table I-1	Comparison of gene densities on human chromosomes X, 6, 9 and 10	11
Table I-2	Inactivation status of autosomal sequences in selected human X;A	
	translocations	17
Table I-3	Overview of genes involved in XLMR	20
Table I-4	Compilation of data on genes involved in S-XLMR	20
Table I-5	Compilation of data on genes involved in NS-XLMR	25
Table I-6	Compilation of data on genes involved in both S- and NS-XLMR	26
Table IIA-1	Chemicals and chemical compounds	73
Table IIA-2	Biological reagents – General	76
Table IIA-3	Biological reagents – RNA/DNA	76
Table IIA-4	Protein-related reagents – General	77
Table IIA-5	Protein-related reagents – Antibodies and immunoglobulins	78
Table IIA-6	Enzymes – General	81
Table IIA-7	Enzymes – Restriction endonucleases	82
Table IIA-8	Non-biological reagents	82
Table IIA-9	Vectors	84
Table IIA-10	Plasmids	85
Table IIA-11	Buffers and solutions	86
Table IIA-12	Cell culture reagents – General	90
Table IIA-13	Cell culture reagents – Media	90
Table IIA-14	Mammalian cell lines	92
Table IIA-15	Bacterial and yeast strains	92
Table IIA-16	Molecular biology kits	93
Table IIA-17	Materials, plasticware and disposables	94
Table IIA-18	Laboratory equipment and instruments	97
Table IIA-19	Software packages & programs	100
Table IIA-20	Algorithms	102
Table IIA-21	Databases	104
Table IIB-1	Culturing conditions for mammalian cells	129
Table III-1	FISH mapping results for X-chromosomal YAC, BAC and PAC clones	
	on metaphases from a 46 X t(X·8)(n11 2·n22 3) lymphoblastoid cell line	143

Table III-2	Exon numbers, splice site sequences and exon sizes of the human and	
	mouse Fbxo25 genes	152
Table III-3	Putatively expressed sequences within the hKIAA1202 gene	171
Table III-4	Evidence for 5' and 3' extensions of hKIAA1202 exons	172
Table III-5	Overview of spliced ESTs and mRNAs mapping to the hKIAA1202 locus	173
Table III-6	hKIAA1202 exons' splice site sequences, genomic coordinates and sizes	175
Table III-7	Scrambled hKIAA1202 transcripts recovered from cultured primary	
	fibroblasts and foetal brain by RT-PCR and RACE	178
Table III-8	mKiaa1202 exons' splice site sequences, genomic coordinates and sizes	181
Table III-9	Mutation analysis of families linked to Xp11	184
Table III-10	New nomenclature for Shrm-related proteins	192
Table III-11	Overview of ion channels linked to human disease that were subjected	
	to in silico analysis	204
Table III-12	Putative biologically relevant hKIAA1202 interaction partners acquired	
	through Y2H screening	226
Table IV-1	Mechanisms possibly generating artificial exon scrambling and their	
	applicability in explaining putative hKIAA1202 exon scrambling	246
Table IV-2	Overview of sequence alterations in hKIAA1202	258
Table VI-1	Estimates of XLMR prevalence rates and number of NS-XLMR genes	
	during the past ~35 years	286
Table XI-1	Mutational mechanisms underlying human pathology	317
Table XII-1	PCR primers used in this study	331
Table XIV-1	DHPLC conditions for hKIAA1202 mutation screening	353
Table XV-1	mRNA and protein symbols, and accession numbers of those mRNAs	
	and proteins investigated or employed in this study	357
Table XV-2	Symbols and full names of all genes and proteins mentioned throughout	
	the text	358