Acknowledgements

We thank Dana Reis, Michael Keene and Jeff Christiansen for their assistance. This work was supported by the National Health and Medical Research Council of Australia, the Australian Cystic Fibrosis Association (B.I.W.) and by the National Heart, Lung and Blood Institute (M.J.W.).

- 1. Collins, F.S. Cystic fibrosis: molecular biology and therapeutic implications. Science **256**, 774–779 (1992).
- 2. Anderson, M.P. et al. Demonstration that CFTR is a chloride channel by alteration of its anion selectivity. Science 253, 202-207 (1991)
- 3. Anderson, M.P. et al. Nucleoside triphosphates are required to open the CFTR chloride channel. Cell 67, 775–784 (1991).
 Bear, C.E. et al. Purification and functional reconstitution of the cystic fibrosis
- transmembrane regulator. Cell, 68, 809-818 (1992).
- Tsul, L.-C. The spectrum of cystic fibrosis mutations. Trends Genet. 8, 392-398 (1992).
- 6. Chu, C.S. et al. Variable deletion of exon 9 coding sequences in cystic fibrosis transmembrane conductance regulator gene mRNA transcripts in normal bronchial epithelium. *EMBO J.* **10**, 1355–1363 (1991).
- Chu, C.S. et al. Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Gene Transcripts. *EMBO J.* 11, 379–380 (1992).

 8. Bremer, S. et al. Quantitative expression patterns of multidrug-resistance P-
- glycoprotein (MDR1) and differentially spliced cystic-fibrosis transmembraneconductance regulator mRNA transcripts in human epithelia. Eur. J. Biochem.
- 9. Snouwaert, J.N. et al. An animal model for cystic fibrosis made by gene targeting. Science 257, 1083-1088 (1992)
- 10. Tata, F. et al. Cloning the mouse homolog of the human cystic fibros transmembrane conductance regulator gene. Genomics 10, 301-307 (1991).
- Elroy, S.O., Fuerst, T.R. & Moss, B. Cap-independent translation of mRNA conferred by encephalomyocarditis virus 5' sequence improves the performance of the vaccinia virus/bacteriophage T7 hybrid expression system. Proc. natn. Acad. Sci. U.S.A. 86, 6126-6130 (1989).
- 12. Rich, D.P. et al. Expression of the cystic fibrosis transmembrane conductance regulator corrects defective chloride channel regulation in cystic fibrosis airway epithelial cells. Nature 347, 358-363 (1990).
- Gregory, R.J. et al. Maturation and function of cystic fibrosis transmembrane conductance regulator variants bearing mutations in putative nucleotide-binding domains 1 and 2. Molec. cell Biol. 11, 3886–3893 (1991).
- Cheng, S.H. et al. Defective intracellular transport and processing of CFTR is the molecular basis of most cystic fibrosis. Cell 63, 827–834 (1990).
 Chu, C.-S. et al. Genetic basis of variable exon 9 skipping in cystic fibrosis
- ytansmembrane conductance regulator mRNA. Nature Genet. 3, 151-156

- Zielenski, J. et al. Identification of mutations in exons 1 through 8 of the cystic fibrosis transmembrane conductance regulator (CFTR) gene. Genomics 10, 229-235 (1991).
- Fonknechten, N., Chomel, J.-C., Kitzis, A., Kahn, A. & Kaplan, J.-C. Skipping of exon 5 as a consequence of the 711+1 G>T mutation in the CFTR gene. Hum. molec. Genet. 1, 281-282 (1992).
- Thompson, J. et al. Alternative splicing of the neural cell adhesion molecule gene generates variant extracellular domain structure in skeletal muscle and brain. Genes Dev. 3, 348-357 (1989).
- Petch, L.A. et al. A truncated, secreted form of the epidermal growth factor receptor is encoded by an alternatively spliced transcript in normal rat tissue. Molec. cell Biol. 10, 2973-2982 (1990).
- Bond, R.W., Wyborski, R.J. & Gottlieb, D.I. Developmentally regulated expression of an exon containing a stop codon in the gene for glutamic acid decarboxylase. Proc. natn. Acad. Sci. U.S.A. 87, 8771-8775
- Waeber, G. & Habener, J.F. Nuclear translocation and DNA recognition signals colocalized within the bZIP domain of cyclic adenosine 3',5'-monophosphate response element-binding protein CREB. Molec. Endocrinol. 5. 1431-1438 (1991)
- Chu, C.S., Trapnell, B.C., Curristin, S.M., Cutting, G.R. & Crystal, R.G. Extensive posttranscriptional deletion of the coding sequences for part of nucleotide-binding fold-1 in respiratory epithelial messenger RNA transcripts of the cystic fibrosis transmembrane conductance regulator gene is not associated with the clinical manifestations of cystic fibrosis. J. clin. Invest.
- Chomczynski, P. & Sacchi, N. Single-step method of RNA isolation by acid quanidinium thiocyanate-phenol-chloroform extraction. *Anal. Biochem.* 162,
- Kunkel, T.M. Rapid and efficient site-specific mutagenesis without phenotypic selection. Proc. natn. Acad. Sci. U.S.A. 82, 488–492 (1985).
- Gregory, R.J. et al. Expression and characterization of the cystic fibrosis transmembrane conductance regulator. *Nature* **347**, 382–386 (1990). Cheng, S.H. *et al.* Phosphorylation of the R domain by cAMP-Dependent
- rotein kinase regulates the CFTR chloride channel. Cell 66, 1027-1036

correction

Allelic loss of chromosome 1p36 in neuroblastoma is of preferential maternal origin and correlates with N-myc amplification

H. Caron, P. van Sluis, M. van Hoeve, J. de Kraker, J. Bras, R. Slater, M. Mannens, P.A.Voûte, A. Westerveld & R. Versteeg

Nature Genetics 4, 187-190 (1993).

Acknowledgements

We thank V. Lauthier, M. Schwab and A. Weith for making DNA probes available to us; we are grateful to J. Bökkerink, J. Groot-Loonen, H. Hey, R. Lippens, K. Moorman-Voestermans, N. Schouten-van-Meeteren, A. Veerman and M. van Weel for providing blood and tumour samples, and we thank P. Bossuyt for his help with the statistical analysis. This work was supported by a grant from the Stichting Kindergeneeskundig Kankeronderzoek (SKK).

erratum

A trithorax-like gene is interrupted by chromosome 11q23 translocations in acute leukaemias

M. Djabali, L. Selleri, P. Parry, M. Bower, B. Young & G. A. Evans

Nature Genetics 2, 113–118 (1992).

An incorrect amino acid sequence was published in this paper. Sequencing errors led to the incorrect version of a portion of the Htrx-1 gene (defined as ORF1) in Fig. 6.

The correct translation is:

ORF1 DKSSTAGSEDAEPLAPPIKPIKPVTRNKA

The corresponding DNA sequence has been deposited in Genbank (accession no. LO1986). This ORF does not show notable sequence similarity to the *drosophila trx* gene product. We apologize for any confusion this error may have caused.