

- Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., et al. – The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium (2001) Functional annotation of a full-length mouse cDNA collection. *Nature* **409**, 685-690.
- Ko, M. S. H., Threat, T. A., Wang, X., Horton, J. H., Cui, Y., Wang, X., Pryor, E., Paris, J., Wells-Smith, J., Kitchen, J. R., Rowe, L. B., Eppig, J., Satoh, T., Brant, L., Fujiwara, H., Yotsumoto, S., Nakashima, H. (1998) Genome-wide mapping of unselected transcripts from extraembryonic tissue of 7.5-day mouse embryos reveals enrichment in the *t*-complex and under-representation on the X chromosome. *Hum. Mol. Genet.* **7**, 1967-1978.
- Kuimov, A. N., Kuprash, D. V., Petrov, V. N., Vdovichenko, K. K., Scanlan, M. J., Jongeneel, C. V., Lagarkova, M. A., Nedospasov, S. A. (2001) Cloning and characterization of TNKL, a member of tankyrase gene family. *Genes Immun.* **2**, 52-55.
- Lander, E. S., Linton, L. M., Birren, B., Nusbaum, C., Zody, M. C., Baldwin, J., Devon, K., Dewar, K., Doyle, M., FitzHugh, W., et al. – International Human Genome Sequencing Consortium (2001) Initial sequencing and analysis of the human genome. *Nature* **409**, 860-921.
- Lepiniec, L., Babiychuk, E., Kushnir, S., Van Montagu, M., Inzé, D. (1995) Characterization of an *Arabidopsis thaliana* cDNA homologue to animal poly(ADP-ribose) polymerase. *FEBS Lett.* **364**, 103-108.
- Le Rhun, Y., Kirkland, J. B., Shah, G. M. (1998) Cellular responses to DNA damage in the absence of poly(ADP-ribose) polymerase. *Biochem. Biophys. Res. Commun.* **245**, 1-10.
- Lindahl, T., Satoh, M. S., Poirier, G. G., Klungland, A. (1995) Post-translational modification of poly(ADP-ribose) polymerase induced by DNA strand breaks. *Trends Biochem. Sci.* **20**, 405-411.
- Lübber, B., Marshallsay, C., Rottmann, N., Lührmann, R. (1993) Isolation of U3 snoRNP from CHO cells: a novel 55 kDa protein binds to the central part of U3 snoRNA. *Nucleic Acids Res.* **21**, 5377-5385.
- Lukowiak, A. A., Granneman, S., Mattox, S. A., Speckmann, W. A., Jones, K., Pluk, H., van Venrooij, W. J., Terns, R. M., Terns, M. P. (2000) Interaction of the U3-55k protein with U3 snoRNA is mediated by the Box B/C motif of U3 and the WD repeats of U3-55k. *Nucleic Acids Res.* **28**, 3462-3471.
- Lyon, M. F., Kirby, M. C. (1996) Mouse chromosome atlas. In: *Genetic Variants and Strains of the Laboratory Mouse*, Third Edition, eds. Lyon, M. F., Rastan, S., Brown, S. D. M., pp. 881-923, Oxford University Press, Oxford.
- Lyons, R. J., Deane, R., Lynch, D. K., Ye, Z.-S. J., Sanderson, G. M., Eyre, H. J., Sutherland, G. R., Daly, R. J. (2001) Identification of a novel human tankyrase through its interaction with the adaptor protein Grb14. *J. Biol. Chem.* **276**, 17172-17180.
- Ma, Q., Baldwin, K. T., Renzelli, A. J., McDaniel, A., Dong, L. (2001) TCDD-inducible poly(ADP-ribose) polymerase: a novel response to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin. *Biochem. Biophys. Res. Commun.* **289**, 499-506.
- Mahajan, P. B., Zuo, Z. (1998) Purification and cDNA cloning of maize poly(ADP-ribose) polymerase. *Plant Physiol.* **118**, 895-905.
- Marra, M., Hillier, L., Kucaba, T., Allen, M., Barstead, R., Beck, C., Blistain, A., Bonaldo, M., Bowers, Y., Bowles, L., et al. (1999) An encyclopedia of mouse genes. *Nat. Genet.* **21**, 191-194.
- Masutani, M., Suzuki, H., Kamada, N., Watanabe, M., Ueda, O., Nozaki, T., Jishage, K.-I., Watanabe, T., Sugimoto, T., Nakagama, H., Ochiya, T., Sugimura, T. (1999) Poly(ADP-ribose) polymerase gene disruption conferred mice resistant to streptozotocin-induced diabetes. *Proc. Natl. Acad. Sci. USA* **96**, 2301-2304.
- Maxwell, E. S., Fournier, M. J. (1995) The small nucleolar RNAs. *Annu. Rev. Biochem.* **64**, 897-934.
- Ménissier-de Murcia, J., Niedergang, C., Trucco, C., Ricoul, M., Dutrillaux, B., Mark, M., Oliver, F. J., Masson, M., Dierich, A., LeMeur, M., Walztinger, C., Chambon, P., de Murcia, G. (1997) Requirement of poly(ADP-ribose) polymerase in recovery from DNA damage in mice and in cells. *Proc. Natl. Acad. Sci. USA* **94**, 7303-7307.
- Monz, D., Munnia, A., Comtesse, N., Fischer, U., Steudel, W.-I., Feiden, W., Glass, B., Meese, E. U. (2001) Novel tankyrase-related gene detected with meningioma-specific sera. *Clin. Cancer Res.* **7**, 113-119.
- Nicholas, K. B., Nicholas, H. B., Jr., Deerfield, D. W., II. (1997) GeneDoc: analysis and visualization of genetic variation. *EMBnet.news* **4**, (http://www.hgmp.mrc.ac.uk/embnet.news/vol4_2/genedoc.html).
- Ogura, T., Takenouchi, N., Yamaguchi, M., Matsukage, A., Sugimura, T., Esumi, H. (1990) Striking similarity of the distribution patterns of the poly(ADP-ribose) polymerase and DNA polymerase β among various mouse organs. *Biochem. Biophys. Res. Commun.* **172**, 377-384.
- Pluk, H., Soffner, J., Lührmann, R., van Venrooij, W. J. (1998) cDNA cloning and characterization of the human U3 small nucleolar ribonucleoprotein complex-associated 55-kilodalton protein. *Mol. Cell. Biol.* **18**, 488-498.
- Pruitt, K. D., Maglott, D. R. (2001) RefSeq and LocusLink: NCBI gene-centered resources. *Nucleic Acids Res.* **29**, 137-140.
- Sambrook, J., Fritsch, E. F., Maniatis, T. (1989) *Molecular Cloning: a Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor.
- Schreiber, V., Amé, J.-C., Dollé, P., Schultz, I., Rinaldi, B., Fraulob, V., Ménissier-de Murcia, J., de Murcia, G. (2002) Poly(ADP-ribose) polymerase-2 (PARP-2) is required for efficient base excision DNA repair in association with PARP-1 and XRCC1. *J. Biol. Chem.* **277**, 23028-23036.
- Shall, S., de Murcia, G. (2000) Poly(ADP-ribose) polymerase-1: what have we learned from the deficient mouse model? *Mutat. Res.* **460**, 1-15.
- Shieh, W. M., Amé, J.-C., Wilson, M. V., Wang, Z.-Q., Koh, D. W., Jacobson, M. K., Jacobson, E. L. (1998) Poly(ADP-ribose) polymerase null mouse cells synthesize ADP-ribose polymers. *J. Biol. Chem.* **273**, 30069-30072.
- Smith, S. (2001) The world according to PARP. *Trends Biochem. Sci.* **26**, 174-179.
- Smith, T. F., Gaitatzes, C., Saxena, K., Neer, E. J. (1999) The WD repeat: a common architecture for diverse functions. *Trends Biochem. Sci.* **24**, 181-185.
- Stoesser, G., Baker, W., van den Broek, A., Camon, E., Garcia-Pastor, M., Kanz, C., Kulikova, T., Leinonen, R., Lin, Q., Lombard, V., Lopez, R., Redaschi, N., Stoehr, P., Tuli, M. A., Tzouvara, K., Vaughan, R. (2002) The EMBL Nucleotide Sequence Database. *Nucleic Acids Res.* **30**, 21-26.
- Strausberg, R. L., Feingold, E. A., Klausner, R. D., Collins, F. S. (1999) The mammalian gene collection. *Science* **286**, 455-457.

- Stultz, C. M., White, J. V., Smith, T. F. (1993) Structural analysis based on state-space modeling. *Protein Sci.* **2**, 305-314.
- Tateno, Y., Imanishi, T., Miyazaki, S., Fukami-Kobayashi, K., Saitou, N., Sugawara, H., Gojobori, T. (2002) DNA Data Bank of Japan (DDBJ) for genome scale research in life science. *Nucleic Acids Res.* **30**, 27-30.
- Tatusova, T. A., Madden, T. L. (1999) BLAST 2 Sequences, a new tool for comparing protein and nucleotide sequences. *FEMS Microbiol. Lett.* **174**, 247-250.
- Thompson, J. D., Higgins, D. G., Gibson, T. J. (1994) CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice. *Nucleic Acids Res.* **22**, 4673-4680.
- Tong, W.-M., Cortes, U., Wang, Z.-Q. (2001) Poly(ADP-ribose) polymerase: a guardian angel protecting the genome and suppressing tumorigenesis. *Biochim. Biophys. Acta* **1552**, 27-37.
- Venema, J., Vos, H. R., Faber, A. W., van Venrooij, W. J., Raué, H. A. (2000) Yeast Rrp9p is an evolutionarily conserved U3 snoRNP protein essential for early pre-rRNA processing cleavages and requires box C for its association. *RNA* **6**, 1660-1671.
- Wang, Z.-Q., Auer, B., Stingl, L., Berghammer, H., Haidacher, D., Schweiger, M., Wagner, E. F. (1995) Mice lacking ADPRT and poly(ADP-ribosylation) develop normally but are susceptible to skin disease. *Genes Dev.* **9**, 509-520.
- Wang, Z.-Q., Stingl, L., Morrison, C., Jantsch, M., Los, M., Schulze-Osthoff, K., Wagner, E. F. (1997) PARP is important for genomic stability but dispensable in apoptosis. *Genes Dev.* **11**, 2347-2358.
- Wheeler, D. L., Church, D. M., Lash, A. E., Leipe, D. D., Madden, T. L., Pontius, J. U., Schuler, G. D., Schriml, L. M., Tatusova, T. A., Wagner, L., Rapp, B. A. (2002) Database resources of the National Center for Biotechnology Information: 2002 update. *Nucleic Acids Res.* **30**, 13-16.
- White, J. V., Stultz, C. M., Smith, T. F. (1994) Protein classification by stochastic modeling and optimal filtering of amino-acid sequences. *Math. Biosci.* **119**, 35-75.
- Yu, L., Gaitatzes, C., Neer, E., Smith, T. F. (2000) Thirty-plus functional families from a single motif. *Protein Sci.* **9**, 2470-2476.