

8 LITERATUR

- Alfonzo, J.D.**, Thiemann, O., Simpson, L. (1997). The mechanism of U insertion/deletion RNA editing in kinetoplastid mitochondria. *Nucleic Acids Res.* **25**: 3751-3759.
- Anant, S.**, Henderson, J.O., Mukhopadhyay, D., Navaratnam, N., Kennedy, S., Min, J., Davidson, N.O. (2001). Novel role for RNA-binding protein CUGBP2 in mammalian RNA editing. CUGBP2 modulates C to U editing of apolipoprotein B mRNA by interacting with apobec-1 and ACF, the apobec-1 complementation factor. *J. Biol. Chem.* **276**: 47338-51.
- Anant, S.**, MacGinnitie, A.J., Davidson, N.O. (1995). Apobec-1, the catalytic subunit of the mammalian apolipoprotein B mRNA editing enzyme, is a novel RNA-binding protein. *J. Biol. Chem.* **270**, 14762-67.
- Antes, T.**, Costandy, H., Mahendran, R., Spottswood, M., Miller, D.L. (1998). Insertional editing of mitochondrial tRNAs of *Physarum polycephalum* und *Didymium nigripes*. *Mol. Cell. Biol.* **18**: 7521-27.
- Backus, J.W.**, Schock, D., Smith, H.C. (1994). Only cytidines 5' of the apolipoprotein B mRNA mooring sequence are edited. *Biochim. Biophys. Acta* **1219**: 1-14.
- Backus, J.W.**, Smith, H.C. (1992). Three distinct RNA sequence elements are required for efficient apolipoprotein B (apoB) RNA editing *in vitro*. *Nucleic Acids Res.* **20**: 6007-14.
- Barany, F.** (1991). Genetic disease detection and DNA amplification using cloned thermostable ligase. *Proc. Natl. Acad. Sci. USA* **88**: 189-93.
- Bégu, D.**, Graves, P.V., Domec, C., Arselin, G., Litvak, S., Araya, A. (1990). RNA editing of wheat mitochondrial ATP synthase subunit 9: Direct Protein and cDNA sequencing. *Plant Cell* **2**: 1283-90.
- Binder, S.**, Marchfelder, A., Brennicke, A. (1994). RNA editing of tRNA^{Phe} and tRNA^{Cys} in mitochondria of *Oenothera berteriana* is initiated in precursor molecules. *Mol. Gen. Genet.* **244**: 67-74.
- Birnboim, H.**, Doly, J. (1979). A rapid alkaline extraction procedure for screening recombinant plasmid DNA. *Nucleic. Acid. Res.* **7**: 1513-1523.
- Blanc, V.**, Henderson, J.O., Kennedy, S., Davidson, N.O. (2001a). Mutagenesis of apobec-1 complementation factor reveals distinct domains that modulate RNA binding, protein-protein-interaction with apobec-1, and complementation of C to U RNA-editing activity. *J. Biol. Chem.* **276**: 46386-93.
- Blanc, V.**, Litvak, S., Araya, A. (1995). RNA editing in wheat mitochondria proceeds by a deamination mechanism. *FEBS Lett.* **373**: 56-60.

- Blanc, V.**, Navaratnam, N., Henderson, J.O., Anant, S., Kennedy, S., Jarmuz, A., Scott, J., Davidson, N.O. (2001b). Identification of GRY-RBP as an apolipoprotein B RNA-binding protein that interacts with both apobec-1 and ACF to modulate C to U editing. *J. Biol. Chem.* **276**: 10272-83.
- Blum, B.**, Simpson, L. (1990). Guide RNAs in kinetoplastid mitochondria have a nonencoded 3' oligo(U) tail involved in recognition of the preedited region. *Cell* **62**: 391-397.
- Bock, R.** (2000). In Bass, B.L. (ed), RNA editing: frontiers in molecular biology. *Oxford university Press*, Oxford, UK.
- Bock, R.**, Hermann, M., Kössel, H. (1996). *In vivo* dissection of *cis*-acting determinants for plastid RNA editing. *EMBO J.* **15**: 5052-59.
- Bock, R.**, Koop, H.-U. (1997). Extraplasmidic site-specific factors mediate RNA editing in chloroplasts. *EMBO J.* **16**: 3282-88.
- Bock, R.**, Kössel, H., Maliga, P. (1994). Introduction of a heterologous editing site into the tobacco plastid genome: the lack of RNA editing leads to a mutant phenotype. *EMBO J.* **13**: 4623-28.
- Bock, R.**, Maliga, P. (1995). *In vivo* testing of a tobacco plastid DNA segment for guide RNA function in *psbL* editing. *Mol. Gen. Genet.* **247**: 439-43.
- Borén, J.**, Lee, I., Zhu, W., Arbold, K., Taylor, S., Innerarity, T.L. (1998). Identification of the low density lipoprotein receptor-binding site in apolipoprotein B100 and the modulation of its binding activity by the carboxyl terminus in familial defective apo-B100. *J. Clin. Invest.* **101**: 1084-93.
- Bradford, M.M.** (1976). A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. *Anal. Biochem.* **72**: 248-54.
- Burnashev, N.**, Monyer, H., Seeburg, P.H., Sakmann, B. (1992). Divalent ion permeability of AMPA receptor channels is dominated by the edited form of a single subunit. *Neuron* **8**: 189-98.
- Burnashev, N.**, Zhou, Z., Neher, E., Sakmann, B. (1995). Fractional calcium currents through recombinant GluR channels of the NMDA, AMPA and kainate receptor subtypes. *J. Physiol.* **485**: 403-18.
- Carrillo, C.**, Bonen, L. (1997). RNA editing status of *nad7* intron domains in wheat mitochondria. *Nucleic Acids Res.* **25**: 403-
- Cattaneo, R.**, Kaelin, K., Baczko, K., Billeter, M.A. (1989). Measles virus editing provides an additional cysteine-rich protein. *Cell* **56**: 759-64.
- Chan, L.** (1992). Apolipoprotein B, the major protein component of triglyceride-rich and low density lipoproteins. *J. Biol. Chem.* **267**: 25621-24.

- Chaudhuri, S.**, Carrer, H., Maliga, P. (1995). Site-specific factor involved in the editing of the *psbL* mRNA in tobacco plastids. *EMBO J.* **14**: 2951-57.
- Chaudhuri, S.**, Maliga, P. (1996). Sequences directing C to U editing of the plastid *psbL* mRNA are located within a 22 nucleotide segment spanning the editing site. *EMBO J.* **15**: 5958-64.
- Chen, C.X.**, Cho, D.S., Wang, Q., Lai, F., Carter, K.C., Nishikura, K. (2000). A third member of the RNA-specific adenosine deaminase gene family, ADAR3, contains both single- and double-stranded RNA binding domains. *RNA* **6**: 755-67.
- Chen, S.-H.**, Habib, G., Yang, C.-Y., Gu, Z.-W., Lee, B.R., Weng, S.-A., Silberman, S.R., Cai, S.-J., Deslypere, J.P., Rosseneu, M., Gotto, A.M., Li, W.H., Chan, L. (1987). Apolipoprotein B-48 is the product of a messenger RNA with an organ-specific in-frame stop codon. *Science* **238**: 363-66.
- Cheng, Y.W.**, Gott, J.M. (2000). Transcription and RNA editing in a soluble *in vitro* system from *Physarum* mitochondria. *Nucleic Acid. Res.* **28**: 3695-3701.
- Cohen, S.N.**, Chang, A.C.Y., Hsu, L. (1972). Nonchromosomal antibiotic resistance in bacteria: genetic transformation of *Escherichia coli* by R-factor DNA. *Proc. Natl. Acad. Sci. U.S.A* **69**: 2110-2114.
- Covello, P.S.**, Gray, M.W. (1989). RNA editing in plant mitochondria. *Nature* **341**: 662-66.
- Covello, P.S.**, Gray, M.W. (1990). Differences in editing at homologous sites in messenger RNAs from angiosperm mitochondria. *Nucleic Acids Res.* **18**: 5189-96.
- Covello, P.S.**, Gray, M.W. (1993). On the evolution of RNA editing. *Trends Genet.* **9**: 265-68.
- Davidson, N.O.** (2002). The challenge of target sequence specificity in C to U RNA editing. *J. Clin. Invest.* **109**: 291-94.
- Dell'Orto, P.**, Moenne, A., Graves, P.V., Jordana, X. (1993). The potato mitochondrial ATP synthase subunit 9: gene structure, RNA editing and partial protein sequence. *Plant Science* **88**: 45-53.
- Driscoll, D.M.**, Casanova, E. (1990). Characterization of the apolipoprotein B mRNA editing activity in enterocyte extracts. *J. Biol. Chem.* **265**: 21401-03.
- Driscoll, D.M.**, Wynne, J.K., Wallis, S.C., Scott, J. (1989). An *in vitro* system for the editing of apolipoprotein B mRNA. *Cell* **58**: 519-25.
- Driscoll, D.M.**, Zhang, Q. (1994). Expression and characterization of p27, the catalytic subunit of the apolipoprotein B mRNA editing enzyme. *J. Biol. Chem.* **269**: 19843-47.
- Egebjerg, J.**, Kukekov, V., Heinemann, S.F. (1994). Intron sequence directs RNA editing of the glutamate receptor subunit GluR2 coding sequence. *Proc. Natl. Acad. Sci. USA* **91**: 10270-74.

- Farré, J.-C.**, Araya, A. (2001). Gene expression in isolated plant mitochondria : high fidelity of transcription, splicing and editing of a transgene product in electroporated organelles. *Nucleic Acids Res.* **29**: 2484-91.
- Farré, J.-C.**, Leon, G., Jordana, X., Araya, A. (2001). *Cis* recognition elements in plant mitochondrion RNA editing. *Mol. Cell. Biol.* **21**: 6731-37.
- Ferrer-Montiel, A.V.**, Montal, M. (1996). Pentameric subunit stoichiometry of a neuronal glutamate receptor. *Proc. Natl. Acad. Sci. USA* **93**: 2741-44.
- Freyer, R.**, Hoch, B., Neckermann, K., Maier, R.M., Kössel, H. (1993). RNA editing in maize chloroplasts is a processing step independent of splicing and cleavage to monocistronic mRNAs. *Plant J.* **4**: 621-29.
- Freyer, R.**, Kiefer-Meyer, M.-C., Kössel, H. (1997). Occurrence of plastid RNA editing in all major lineages of land plants. *Proc. Natl. Acad. Sci. USA* **94**: 6285-90.
- Giegé, P.**, Brennicke, A. (1999). RNA editing in *Arabidopsis* mitochondria effects 441 C to U changes in ORFs. *Proc. Natl. Acad. Sci. USA* **96**: 15324-29.
- Gott, J.M.** (2000). In Bass, B.L. (ed), RNA editing: frontiers in molecular biology. *Oxford university Press*, Oxford, UK.
- Gott, J.M.**, Emeson, R.B. (2000). Functions and mechanisms of RNA editing. *Annu. Rev. Genet.* **34**: 499-531.
- Gott, J.M.**, Visomirski, L.M., Hunter, J.L. (1993). Substitutional and insertional RNA editing of the cytochrom c oxidase subunit 1 mRNA of *Physarum polycephalum*. *J. Biol. Chem.* **268**: 25483-86.
- Grams, J.**, McManus, M.T., Hajduk, S.L. (2000). Processing of polycistronic guide RNAs is associated with RNA editing complexes in *Trypanosoma brucei*. *EMBO J.* **19**: 5525-5532.
- Graves, P.V.**, Bégu, D., Velours, J., Neau, E., Belloc, F., Litvak, S., Araya, A. (1990). Direct protein sequencing of wheat mitochondrial ATP synthase subunit 9 confirms RNA editing in plants. *J. Mol. Biol.* **214**: 1-6.
- Gualberto, J.M.**, Bonnard, G., Lamattina, L., Grienberger, J.-M. (1991). Expression of the wheat mitochondrial *nad3-rps12* transcription unit: correlation between editing and mRNA maturation. *Plant Cell* **3**: 1109-20.
- Gualberto, J.M.**, Lamattina, L., Bonnard, G., Weil, J.-H., Grienberger, J.-M. (1989). RNA editing in wheat mitochondria results in the conversion of protein sequences. *Nature* **341**: 660-62.
- Gualberto, J.M.**, Weil, J.-H., Grienberger, J.-M. (1990). Editing of wheat *coxIII* transcript: evidence for twelve C to U and one U to C conversions and for sequence similarities around editing sites. *Nucleic Acids Res.* **18**: 3771-76.

- Hanahan, D.** (1983). Studies of transformation of *Escherichia coli* with plasmids. *J. Mol. Biol.* **166**: 557-580.
- Hausmann, S.,** Garcin, D., Morel, A.S., Kolakofsky, D. (1999). Two nucleotides immediately upstream of the essential A6G3 slippery sequence modulate the pattern of G insertions during Sendai virus mRNA editing. *J. Virol.* **73**: 343-351.
- Hermann, M.,** Bock, R. (1999). Transfer of plastid RNA-editing activity to novel sites suggest a critical role for spacing in editing-site recognition. *Proc. Natl. Acad. Sci. USA* **96**: 4856-61.
- Hernould, M.,** Suharsono, S., Litvak, S., Araya, A., Mouras, A. (1993). Male-sterility induction in transgenic tobacco plants with an unedited *atp9* mitochondrial gene from wheat. *Proc. Natl. Acad. Sci. USA* **90**: 2370-74.
- Hersberger, M.,** Innerarity, T.L. (1998). Two efficiency elements flanking the editing site of cytidine 6666 in the apolipoprotein B mRNA support mooring-dependent editing. *J. Biol. Chem.* **16**: 9435-42.
- Hiesel, R.,** Wissinger, B., Brennicke, A. (1990). Cytochrom oxidase subunit II mRNAs in *Oenothera* mitochondria are edited at 24 sites. *Curr. Genet.* **18**: 371-75.
- Hiesel, R.,** Wissinger, B., Schuster, W., Brennicke, A. (1989). RNA editing in plant mitochondria. *Science* **246**: 1632-34.
- Higuchi, M.,** Single, F.N., Kohler, M., Sommer, B., Sprengel, R., Seeburg, P.H. (1993). RNA editing of AMPA receptor subunit GluR-B: a base-paired intron-exon structure determines position and efficiency. *Cell* **75**: 1361-70.
- Hinz, S.,** Göringer, H.U. (1999). The guide RNA database (3.0). *Nucleic Acids Res.* **27**: 168.
- Hirose, T.,** Sugiura, M. (2001). Involvement of a common RNA-binding protein in the editing of chloroplast mRNAs: development of a chloroplast *in vitro* RNA editing system. *EMBO J.* **20**: 1144-1152.
- Hoch, B.,** Maier, R.M., Appel, K., Igloi, G.L., Kössel, H. (1991). Editing of a chloroplast mRNA by creation of an initiation codon. *Nature* **353**: 178-80.
- Hough, R.F.,** Bass, B.L. (1994). Purification of the *Xenopus laevis* double-stranded RNA adenosine deaminase. *J. Biol. Chem.* **269**: 9933-39.
- Hough, R.F.,** Bass, B.L. (2000). In Bass, B. L. (ed), RNA editing: frontiers in molecular biology. *Oxford university Press*, Oxford, UK.
- Hume, R.I.,** Dingleline, R., heinemann, S.F. (1991). Identification of a site in glutamate receptor subunits that controls calcium permeability. *Science* **253**: 1028-31.
- Iiono, M.,** Ozawa, S., Tsuzuki, K. (1990). Permeation of calcium through excitatory amino acid receptor channels in cultured rat hippocampal neurons. *J. Physiol.* **424**: 151-54.
- Jonas, P.,** Sakmann, B. (1992). Glutamate receptor channels in isolated patches from CA1 and CA3 pyramidal cells of rat hippocampal slices. *J. Physiol.* **455**: 143-71

- Kapushoc, S.T.**, Simpson, L. (1999). *In vitro* uridine insertion RNA editing mediated by cis-acting guide RNAs. *RNA* **5**: 656-669.
- Karcher, D.**, Bock, R. (1998). Site-selective inhibition of plastid RNA editing by heat shock and antibiotics: a role for plastid translation in RNA editing. *Nucleic Acids Res.* **26**: 1185-90.
- Keller, W.**, Minvielle-Sebastia, L. (1997). A comparison of mammalian and yeast pre-mRNA 3'-end processing. *Curr. Opin. Cell. Biol.* **9**: 329-36.
- Kubo, N.**, Kadowaki, K. (1997). Involvement of 5' flanking sequence for specifying RNA editing sites in plant mitochondria. *FEBS Lett.* **413**: 40-44.
- Kudla, J.**, Bock, R. (1999). RNA editing in an untranslated region of the Ginkgo chloroplast genome. *Gene* **234**: 81-86.
- Kudla, J.**, Igloi, G.L., Metzlauff, M., Hagemann, R., Kössel, H. (1992). RNA editing in tobacco chloroplasts leads to the formation of a translatable *psbL* mRNA by a C to U substitution within the initiation codon. *EMBO J.* **11**: 1099-1103.
- Kurihara-Yonemoto, S.**, Handa, H. (2001). Low temperature affects the processing pattern and RNA editing status of the mitochondrial *cox2* transcript. *Curr. Genet.* **40**: 203-08.
- Lomeli, H.**, Mosbacher, J., Melcher, t., Hoyer, T., Geiger, J.R., Kuner, T., Monyer, H., Higuchi, M., Bach, A., Seeburg, P.H. (1994). Control of kinetic properties of AMPA receptor channels by nuclear RNA editing. *Science* **266**: 1709-13.
- Mahendran, R.**, Spottswood, M.R., Miller, D.L. (1991). RNA editing by cytidine insertion in mitochondria of *Physarum polycephalum*. *Nature* **349**: 434-38.
- Mahendran, R.**, Spottswood, M.S., Ghate, A., Ling, M., Jeng, K., Miller, D.L. (1994). Editing of the mitochondrial small subunit rRNA in *Physarum polycephalum*. *EMBO J.* **13**: 232-40.
- Maier, R.M.**, Hoch, B., Zeltz, P., Kössel, H. (1992a). Internal editing of the maize chloroplast *ndhA* transcript restores codons for conserved amino acids. *Plant Cell* **4**: 609-16.
- Maier, R.M.**, Neckermann, K., Hoch, B., Akhmedov, N.B., Kössel, H. (1992b). Identification of editing position in the *ndhB* transcript from maize chloroplasts reveals sequence similarities between editing sites of chloroplasts and plant mitochondria. *Nucleic Acids Res.* **20**: 6189-94.
- Maier, R.M.**, Neckermann, K., Igloi, G.L., Kössel, H. (1995). Complete sequence of the maize chloroplast genome: Gene content, hotspot of divergence and fine tuning of genetic information by transcript editing. *J. Mol. Biol.* **251**: 614-28.
- Maier, R.M.**, Zeltz, P., Kössel, H., Bonnard, G., Gualberto, J.M., Grienenberger, J.M. (1996). RNA editing in plant mitochondria and chloroplasts. *Plant Mol. Biol.* **32**: 343-65.
- Malek, O.**, Lättig, K., Hiesel, R., Brennicke, A., Knoop, V. (1996). RNA editing in bryophytes and a molecular phylogeny of land plants. *EMBO J.* **15**: 1403-11.

- Mano, I.**, Teichberg, V.I. (1998). A tetrameric subunit stoichiometry for a glutamate receptor-channel-complex. *Neuroreport* **9**, 327-31.
- Marechal-Drouard, L.**, Cosset, A., Remacle, C., Ramamonjisoa, D., Dietrich, A. (1996a). A single editing event is a prerequisite for efficient processing of potato mitochondrial phenylalanin tRNA. *Mol. Cell. Biol.* **16**: 3504-10.
- Marechal-Drouard, L.**, Kumar, R., Remacle, C., Small, I. (1996b). RNA editing of larch mitochondrial tRNA^{His} precursors is a prerequisite for processing. *Nucleic Acids Res.* **24**: 3229-34.
- Maslov, D.A.**, Simpson, L. (1992). The polarity of editing within a multiple gRNA-mediated domain is due to formation of anchors for upstream gRNAs by downstream editing. *Cell* **70**: 459-467.
- Melcher, T.**, Maas, S., Herb, A., Sprengel, R., Higuchi, M., Seeburg, P.H. (1996a). RED2, a brain-specific member of the RNA-specific adenosine deaminase family. *J. Biol. Chem.* **271**: 31795-98.
- Melcher, T.**, Maas, S., Herb, A., Sprengel, R., Seeburg, P.H., Higuchi, M. (1996b). A mammalian RNA editing enzyme. *Nature* **379**: 460-64.
- Miyamoto, T.**, Obokata, J., Sugiura, M. (2002). Recognition of RNA editing sites is directed by unique proteins in chloroplasts: biochemical identification of *cis*-acting elements and *trans*-acting factors involved in RNA editing in tobacco and pea chloroplasts. *Mol. Cell. Biol.* **22**: 6726-34.
- Nakajima, Y.**, Mulligan, R.M. (2001). Heat stress results in incomplete C-to-U editing of maize chloroplast mRNAs and correlates with changes in chloroplast transcription rate. *Curr. Genet.* **40**: 209-13.
- Navaratnam, N.**, Bhattacharya, S., Fujino, T., Patel, D., Jarmuz, A.L., Scott, J. (1995). Evolutionary origins of *apoB* mRNA editing: Catalysis by a cytidine deaminase that has acquired a novel RNA-binding motif at its active site. *Cell* **81**: 187-95.
- Navaratnam, N.**, Fujino, T., Bayliss, J., Jarmuz, A.L., How, A., Richardson, N., Somasekaram, A., Bhattacharya, S., Carter, C., Scott, J. (1998). *Escherichia coli* cytidine deaminase provides a molecular model for apoB RNA editing and a mechanism for RNA substrate recognition. *J Mol. Biol.* **275**: 695-714.
- Navaratnam, N.**, Morrison, J.R., Bhattacharya, S., Patel, D., Funahashi, T., Giannoni, F., Teng, B.-B., Davidson, N.O., Scott, J. (1993). The p27 catalytic subunit of the apolipoprotein B mRNA editing enzyme is a cytidine deaminase. *J. Biol. Chem.* **268**: 20709-12.
- O'Connell, M.A.**, Krause, S., Higuchi, M., Hsuan, J.J., Totty, N.F., Jenny, A., Keller, W. (1995). Cloning of cDNAs encoding mammalian double-stranded RNA-specific adenosine deaminase. *Mol. Cell. Biol.* **15**: 1389-97.
- Peeters, N.M.**, Hanson, M.R. (2002). Transcript abundance supercedes editing efficiency as a factor in developmental variation of chloroplast gene expression. *RNA* **8**: 497-511.

- Polson, A.G.**, Crain, P.F., Pomerantz, S.C., McCloskey, J.A., Bass, B.L. (1991). The mechanism of adenosine to inosine conversion by the double-stranded RNA unwinding/modifying activity: a high-performance liquid chromatography-mass spectrometry analysis. *Biochemistry* **30**: 11507-14.
- Powell, L.M.**, Wallis, S.C., Pease, R.J., Edwards, Y.H., Knott, T.J., Scott, J. (1987). A novel form of tissue-specific RNA processing produces apolipoprotein-B48 in intestine. *Cell* **50**: 831-40.
- Rajasekhar, V.K.**, Mulligan R.M. (1993). RNA editing in plant mitochondria: α -phosphate is retained during C-to-U conversion in mRNAs. *Plant Cell* **5**: 1843-52.
- Reed, M.L.**, Lyi, S.M., Hanson, M.R. (2001a). Edited transcripts compete with unedited mRNAs for trans-acting editing factors in higher plant chloroplasts. *Gene* **272**: 165-71.
- Reed, M.L.**, Peeters, N.M., Hanson, M.R. (2001b). A single alteration 20 nt 5' to an editing target inhibits chloroplast RNA editing *in vivo*. *Nucleic Acids Res.* **29**: 1507-13.
- Richardson, N.**, Navaratnam, N., Scott, J. (1998). Secondary structure for the apolipoprotein B mRNA editing site. *J. Biol. Chem.* **273**: 31707-17.
- Rish, S.Y.**, Breiman, A. (1993). RNA editing of the barley (*Hordeum vulgare*) mitochondrial ATP synthase subunit 9. *Plant Mol. Biol.* **22**: 711-14.
- Rueter, S.M.**, Dawson, T.R., Emeson, R.B. (1999). Regulation of alternative splicing by RNA editing. *Nature* **399**: 75-80.
- Salazar, R.A.**, Pring, D.R., Kempken, F. (1991). Editing of mitochondrial *atp9* transcripts from two sorghum lines.
- Sambrook, J.**, Russell, D., (2001). Molecular cloning: a laboratory manual. 3rd edition, Cold
- Sanger, F.**, Nicklen, S., Coulson, A.R. (1977). DNA sequencing with chain-terminating inhibitors. *Proc. Natl. Acad. Sci. USA* **74**: 5463-5467.
- Schuster, W.**, Brennicke, A. (1990). RNA editing of ATPase subunit 9 transcripts in *Oenothera* mitochondria. *FEBS Lett.* **268**: 252-56.
- Schuster, W.**, Brennicke, A. (1991). RNA editing in ATPase subunit 6 mRNAs in *Oenothera* mitochondria: a new termination codon shortens the reading frame by 35 amino acid codons. *FEBS Lett.* **295**: 97-101.
- Schuster, W.**, Hiesel, R., Wissinger, B., Brennicke, A. (1990a). RNA editing in the cytochrom b locus of the higher plant *Oenothera berteriana* includes a U-to-C transition. *Mol. Cell. Biol.* **10**: 2428-31.
- Schuster, W.**, Ternes, R., Knoop, V., Hiesel, R., Wissinger, B., Brennicke, A. (1991). Distribution of RNA editing sites in *Oenothera* mitochondrial mRNAs and rRNAs. *Curr. Genet.* **20**: 397-404.
- Schuster, W.**, Unseld, M., Wissinger, B., Brennicke, A. (1990b). Ribosomal protein S14 transcripts are edited in *Oenothera* mitochondria. *Nucleic Acids Res.* **18**: 229-33.

- Shah, R.R.**, Knott, T.J., Legros, J.E., Navaratnam, N., Greeve, J.C., Scott, J. (1991). Sequence requirements for the editing of apolipoprotein B mRNA. *J. Biol. Chem.* **266**: 16301-04.
- Simpson, L.**, Wang, S.H., Thiemann, O.H., Alfonzo, J.D., Maslov D.A., Avila, H.A. (1998). U-insertion/ deletion edited sequence database. *Nucleic Acids Res.* **26**: 170-76.
- Sommer, B.**, Kohler, M., Sprengel, R., Seeburg, P.H. (1991). RNA editing in brain controls a determinant of ion flow in glutamate-gated channels. *Cell* **67**: 11-19.
- Sowden, M.**, Hamm, J.K., Spinelli, S., Smith, H.C. (1996). Determinants involved in regulating the proportion of edited apolipoprotein B RNAs. *RNA* **2**: 274-288.
- Sowden, M.**, Smith, H. C. (2001). Commitment of apolipoprotein B RNA to the splicing pathway regulates cytidine-to-uridine editing-site utilization. *Biochem. J.* **359**: 697-705.
- Stewart, J.**, Kozlowski, P., Sowden, M., Messing, E., Smith, H.C. (1998). A quantitative assay for assessing allelic proportions by iterative gap ligation. *Nucleic Acids Res.* **26**: 961-66.
- Stuart, K.**, Panigrahi, A.K. (2002). RNA editing: complexity and complications. *Mol. Microbiol.* **45**: 591-596.
- Stuart, K.**, Panigrahi, A.K., Schnauffer, A., Drozdz, M., Clayton, C., Salavati, R. (2002). Composition of the editing complex of *Trypanosoma brucei*. *Philos Trans R Soc Lond B* **357**: 71-79.
- Sutton, C.A.**, Conklin, P.L., Pruitt, K.D., Hanson, M.R. (1991). Editing of pre-mRNAs can occur before *cis*- and *trans*-Splicing in *Petunia* mitochondria. *Mol. Cell. Biol.* **11**: 4274-77.
- Sutton, C.A.**, Zoubenko, O.V., Hanson, M.R., Maliga, P. (1995). A plant mitochondrial sequence transcribed in transgenic tobacco chloroplasts is not edited. *Mol. Cell. Biol.* **15**: 1377-81.
- Svab, Z.**, Maliga, P. (1993). High-frequency plastid transformation in tobacco by selection for chimeric *aadA* gene. *Proc. Natl. Acad. Sci. USA* **90**: 913-17.
- Teng, B.**, Burant, C.F., Davidson, N.O. (1993). Molecular cloning of an apolipoprotein B messenger RNA editing protein. *Science* **260**: 1816-19.
- Thomas, S.M.**, Lamb, R.A., Paterson, R.G. (1988). Two mRNAs that differ by two nontemplated nucleotides encode the amino coterminal proteins P and V of the paramyxovirus SV5. *Cell* **54**: 891-902.
- Varani, G.** (1997). A cap for all occasions. *Structure* **5**: 855-858.
- Vidal, S.**, Curran, J., Kolakofsky, D. (1990a). A stuttering model for paramyxovirus P mRNA editing. *EMBO J.* **9**: 2017-22.
- Vidal, S.**, Curran, J., Kolakofsky, D. (1990b). Editing of the Sendai virus P/C mRNA by G insertion occurs during mRNA synthesis via virus-encoded activity. *J. Virol.* **64**: 239-46.

- Visomorski, L.M.**, Gott, J.M. (1995). Accurate and efficient insertional RNA editing in isolated *Physarum* mitochondria. *RNA*, **1**: 681-691.
- Visomorski, L.M.**, Gott, J.M. (1997a). Insertional editing in isolated *Physarum* mitochondria is linked to RNA synthesis. *RNA* **3**: 821-837.
- Visomorski, L.M.**, Gott, J.M. (1997b). Insertional editing of nascent mitochondrial RNAs in *Physarum*. *Proc. Natl. Acad. Sci. USA* **94**: 4324-4329.
- Wakasugi, T.**, Hirose, T., Horihata, M., Tsudzuki, T., Kössel, H., Sugiura, M. (1996). Creation of a novel protein-coding region at the RNA level in black pine chloroplasts: The pattern of RNA editing in the gymnosperm chloroplast is different from that in angiosperms. *Proc. Natl. Acad. Sci. USA* **93**: 8766-70.
- Wang, J.**, Manley, J.L. (1997). Regulation of pre-mRNA splicing in metazoa. *Curr. Opin. Genet. Dev.* **7**: 205-11.
- Wang, S.S.**, Mahendran, R., Miller, D.L. (1999). Editing of cytochrom *b* mRNA in *Physarum* mitochondria. *J. Biol. Chem.* **274** : 2725-31.
- Williams, M.A.**, Kutcher, B.M., Mulligan, R.M. (1998). Editing site recognition in plant mitochondria: the importance of 5' flanking sequences. *Plant Mol. Biol.* **36**: 229-237.
- Yamanaka, S.**, Poksay, K.S., Balestra, M.E., Zeng, G.-Q., Innerarity, T.L. (1994). Cloning and mutagenesis of the rabbit *apoB* mRNA editing protein. A zinc motif is essential for catalytic activity, and noncatalytic auxiliary factor(s) of the editing complex are widely distributed. *J. Biol. Chem.* **269**: 21725-34.
- Yoshinaga, , K.**, Inuma, H., Masuzawa, T., Uedal, K. (1996). Extensive RNA editing of U to C in addition to C to U substitution in the *rbcL* transcript of hornwort chloroplasts and the origin of RNA editing in green plants. *Nucleic Acids Res.* **24**: 1008-14.
- Yoshinaga, , K.**, Kakehi, T., Shima, Y., Inuma, H., Masuzawa, T., Ueno, M. (1997). Extensive RNA editing and possible double-stranded structures determining editing sites in the *atpB* transcripts of hornwort chloroplasts. *Nucleic Acids Res.* **25**: 4830-34.
- Yu, W.**, Sanchez, H., Schuster, W. (1998). Assays for investigating RNA editing in plant mitochondria. *Methods in Enzymology* **15**: 63-74.
- Yu, W.**, Schuster, W. (1995). Evidence for a site-specific cytidine deamination reaction involved in C to U RNA editing of plant mitochondria. *J. Biol. Chem.* **270**: 18227-18233.
- Zabaleta, E.**, Mouras, A., Hernould, M., Suharsono, S., Araya, A. (1996). Transgenic male-sterile plant induced by an unedited *atp9* gene is restored to fertility by inhibiting its expression with antisense RNA. *Proc. Natl. Acad. Sci. USA* **93**: 11259-63.
- Zanlungo, S.**, Quinones, V., Moenne, A., Holuigue, L., Jordana, X. (1995). Splicing and editing of *rps10* transcripts in potato mitochondria. *Curr. Genet.* **27**: 565-71.

- Zeltz, P.**, Hess, W.R., Neckermann, K., Börner, T., Kössel, H. (1993). Editing of the chloroplast *rpoB* transcript is independent of chloroplast translation and shows different patterns in barley and maize. *EMBO J.* **12**: 4291-96.
- Zeltz, P.**, Kadowaki, K., Kubo, N., Maier, R.M., Hirai, A., Kössel, H. (1996). A promiscuous chloroplast DNA fragment is transcribed in plant mitochondria but the encoded RNA is not edited. *Plant Mol. Biol.* **31**: 647-56.