

2007

**Sasnauskas G.**, Connolly B.A., Halford S.E., **Siksny V.** Site-specific DNA transesterification catalyzed by a restriction enzyme. *Proc Natl. Acad. Sci. U S A.* 2007 104(7):2115-20.

Kaus-Drobek M., Czapinska H., Sokolowska M., **Tamulaitis G.**, Szczepanowski R.H., Urbanke C., **Siksny V.**, Bochtler M. Restriction endonuclease MvaI is a monomer that recognizes its target sequence asymmetrically. *Nucleic Acids Res.* 2007, 35(6):2035-46.

**Sukackaite R.**, **Lagunavicius A.**, **Stankevicius K.**, Urbanke C., **Venclovas C.**, **Siksny V.** Restriction endonuclease BpuJI specific for the 5'-CCCGT sequence is related to the archaeal Holliday junction resolvase family. *Nucleic Acids Res.* 2007, 35(7):2377-89.

Sokolowska M., Kaus-Drobek M., Czapinska H., **Tamulaitis G.**, Szczepanowski R.H., Urbanke C., **Siksny V.**, Bochtler M. Monomeric Restriction Endonuclease BcnI in the Apo Form and in an Asymmetric Complex with Target DNA. *J Mol Biol.* 2007, 369(3):722-34.

**Tamulaitis G.**, **Zaremba M.**, Szczepanowski R.H., Bochtler M. **Siksny V.** Nucleotide flipping by restriction enzymes analyzed by 2-aminopurine steady-state fluorescence. *Nucleic Acids Res.* 2007 35(14):4792-9.

Sokolowska M., Kaus-Drobek M., Czapinska H., **Tamulaitis G.**, **Siksny V.**, Bochtler M. Restriction endonucleases that resemble a component of the bacterial DNA repair machinery *Cell Mol Life Sci.* 2007, 64(18):2351-7.

Shlyakhtenko L.S., Gilmore J., Portillo A., **Tamulaitis G.**, **Siksny V.**, Lyubchenko Y.L. Direct Visualization of the EcoRII-DNA Triple Synaptic Complex by Atomic Force Microscopy. *Biochemistry.* 2007, 46(39):11128-36.

**Lukinavicius G.**, **Lapiene V.**, **Stasevskij Z.**, Dalhoff C, Weinhold E, **Klimasauskas S.** Targeted labeling of DNA by methyltransferase-directed transfer of activated groups (mTAG). *J. Am. Chem. Soc.* 2007, 129(10):2758-9.

**Klimasauskas S.**, Weinhold E. A new tool for biotechnology: AdoMet-dependent methyltransferases. *Trends Biotechnol.* 2007, 25(3):99-104.

Subach O.M., Maltseva D.V., Shastry A., Kolbanovskiy A., **Klimasauskas S.**, Geacintov N.E., Gromova E.S.. The stereochemistry of benzo[a]pyrene-2'-deoxyguanosine adducts affects DNA methylation by SssI and HhaI DNA methyltransferases. *FEBS J.* 2007, 274(8):2121-34.

Sevostyanova A., Feklistov A., Barinova N., Heyduk E. Bass I., **Klimasauskas S.** Heyduk T., Kulbachinskiy A. Specific recognition of the -10 promoter element by the free RNA polymerase sigma subunit. *J Biol Chem.* 2007, 82(30):22033-9.

Yang Z., **Vilkaitis G.**, Yu B. **Klimasauskas S.**, Chen X. Approaches for Studying MicroRNA and Small Interfering RNA Methylation In Vitro and In Vivo. *Methods Enzymol.* 2007, 427:139-54.

**Jakubauskas A.**, **Giedriene J.**, Bujnicki JM, **Janulaitis A.** Identification of a Single HNH Active Site in Type IIS Restriction Endonuclease. *J. Mol. Biol.* 2007, 370(1):157-69.

**Jurenaite-Urbanaviciene S.**, Serksnaite J., **Kriukiene E.**, **Giedriene J.**, **Venclovas C.**, Lubys A. Generation of DNA cleavage specificities of type II restriction endonucleases by reassortment of target recognition domains. *Proc Natl Acad Sci U S A.* 2007, 104 (25):10358-10363.

**Mindaugas Juozapaitis**, **Andrius Serva**, **Aurelija Zvirbliene**, **Rimantas Slibinskas**, Juozas Staniulis, **Kestutis Sasnauskas**, Brian J. Shiell, Lin-Fa Wang and Wojtek P. Michalski. Generation of henipavirus nucleocapsid proteins in yeast *Saccharomyces cerevisiae*. *Virus Research.* 2007, 124(1-2):95-102.

Lundstig A, Stattin P, Persson K, **Sasnauskas K.**, Viscidi RP, Gislefoss RE, Dillner J. No excess risk for colorectal cancer among subjects seropositive for the JC polyomavirus. *Int J Cancer.* 2007, 121:1098-1102.

**Juozapaitis M.**, **Serva A.**, **Kucinskaite I.**, **Zvirbliene A.**, **Slibinskas R.**, Staniulis J, **Sasnauskas K.**, Shiell B.J., Bowden T.R., Michalski W.P. Generation of menangle virus nucleocapsid-like particles in yeast *Saccharomyces cerevisiae*. *J. Biotechnol.* 2007, 130(4):441-7.

Essbauer S., Schmidt-Chanasit J., Madeja E.L., Wegener W., Friedrich R., **Petraityte, R.**, **Sasnauskas K.**, Jacob J., Koch J., Dobler G., Conraths F.J., Pfeffer M., Pitra C., Ulrich R. Nephropathia epidemica outbreak in a metropolitan area, Germany. *Emerging Infections Diseases* 2007, 13 (8):1271-1273.

Lawatscheck R, **Aleksaite E.**, Schenk JA, Micheel B, Jandrig B, Holland G, **Sasnauskas K.**, **Gedvilaite A.**, Ulrich RG. Chimeric Polyomavirus-Derived Virus-Like Particles: The Immunogenicity of an Inserted Peptide Applied without Adjuvant to Mice Depends on Its Insertion Site and Its Flanking Linker Sequence. *Viral Immunol.* 2007, 20(3):453-60.

**Zaveckas M.**, **Zvirbliene A.**, Zvirblis G., Chmieliauskaite V., Bumelis V., Pesliakas H. Effect of surface histidine mutations and their number on the partitioning and refolding of recombinant human granulocyte-colony stimulating factor (Cys17Ser) in aqueous two-phase systems containing chelated metal ions. *J. Chromatogr B Analyt Technol Biomed Life Sci.* 2007, 852(1-2):409-19.

**Dudutiene V.**, **Baranauskiene L.**, **Matulis D.** Benzimidazo[1,2-c][1,2,3]thiadiazole-7-sulfonamides as inhibitors of carbonic anhydrase. *Bioorg. Med. Chem. Lett.* 2007, 17(12):3335-8.

**Zvirbliene A.**, **Kucinskaite I.**, **Sezaite I.**, Samuel D., **Sasnauskas K.** Mapping of B cell epitopes in measles virus nucleocapsid protein. *Arch Virol.* 2007, 152:25-39.

Makino Y., Uenishi R., Okamoto K., Isoe T., Hosono O., Tanaka H., **Kanopka A.**, Poellinger L., Haneda M., Morimoto C. Transcriptional upregulation of ipas gene expression by HIF-1: A negative feedback regulatory circuit in HIF-1-mediated signaling in hypoxic cells. *J Biol Chem.* 2007, 282(19):14073-82.