

Babitzke, P., J. Yealy, and D. Campanelli. Interaction of the *trp* RNA-binding Attenuation Protein (TRAP) of *Bacillus subtilis* with RNA: Effects of the Number of GAG Repeats, the Nucleotide Sequence Separating Adjacent Repeats, and RNA Secondary Structure. J. Bacteriol. 178:5159-5163.

Brenchley, J. Psychrophilic Microorganisms and Their Cold-active Enzymes. J. Ind. Microbiol. & Biotechnol. 17:432-437.

DePrada, P., J. Loveland-Curtze, and **J. Brenchley**. Production of Two Extracellular Alkaline Phosphatases by a Psychrophilic Arthrobacter Strain. Appl. Environ. Microbiol. 62:3732-3738.

Mühlenhoff, U., J. Kruip, W. Nitschke, **D.A. Bryant**, M. Rögner, P. Sétif, and E. Boekema. Characterization of a Redox Active Cross-linking Complex Between Cyanobacterial Photosystem I and its Physiological Acceptor Flavodoxin. EMBO J. 15:448-497.

Mühlenhoff, U., J. Zhao, and **D.A. Bryant**. Interaction of Photosystem I and Flavodoxin from the Cyanobacterium *Synechococcus* sp. PCC 7002 as Revealed by Chemical Cross-linking. Eur. J. Biochem. 325:324-331.

Caslake, L. and **D.A. Bryant**. Cloning and Characterization of the *sigA* Gene Encoding the Major Sigma Factor of RNA Polymerase from the Marine Cyanobacterium *Synechococcus* sp. PCC 7002. Microbiology 142:347-357.

Schluchter, W.M., G. Shen, J. Zhao, and **D.A. Bryant**. Characterization of *psaI* and *psaL* Mutants of *Synechococcus* sp. PCC 7002: A New Model for State Transitions in Cyanobacteria. Photochem. Photobiol. 64:53-66.

Chung, S. and **D.A. Bryant**. Characterization of *csmB* Genes from *Chlorobium vibrioforme* 8327D and *Chlorobium tepidum* and Overproduction of the *Chlorobium tepidum* CsmB Protein in *Escherichia coli*. Arch. Microbiol. 166:234-244.

Sültemeyer, D., G.D. Price, **D.A. Bryant**, and M.R. Badger. PsaE- and NdhF-mediated Electron Transport Affect Bicarbonate Transport Rather than Carbon Dioxide Uptake in the Cyanobacterium *Synechococcus* sp. PCC 7002. Planta Med. 201:36-42.

Jung, Y.-S., I.R. Vassiliev, F. Qiao, F. Yang, **D.A. Bryant**, and J.H. Golbeck. Modified Ligands to F_A and F_B in Photosystem I. II. Chemical Rescue of a [4Fe-4S] Cluster Using an External Thiolate in Alanine, Glycine, and Serine Mutants of PsaC. J. Biol. Chem. 271:31135-31144.

Chung, S., and **D.A. Bryant**. Characterization of the *csmD* and *csmE* Genes From *Chlorobium Tepidum*. The CsmA, CsmC, CsmD, and CsmE Proteins are Components of the Chlorosome Envelope. Photosynth. Res. 50:41-59.

Daniel, A.M., J.J. Swenson, R.P. Reddy Mayreddy, K. Khalili, and R.J. Frisque. Sequences Within the Early and Late Promoters of Archetype JC Virus Restrict Viral DNA Replication and Infectivity. Virology 216:90-101.

- Freeland, T.M., R.B. Guyer, A.Z. Ling, and **R.A. Deering**. Apurinic/aprimidinic (AP) Endonuclease from *Dictyostelium discoideum*: Cloning, Nucleotide Sequence and Induction by Sublethal Levels of DNA Damaging Agents. Nucleic Acids Res. 24:1950-1953.
- Deering, R.A.**, R.B. Guyer, L. Stevens, and T.E. Watson-Thais. Some Repair-deficient Mutants of *Dictyostelium Discoideum* Display Enhanced Susceptibilities to Bleomycin. Antimicrob. Agents Chemother. 40:464-467.
- Kidd, R.R., H.P. Yennawar, P. Sears, C.H. Wang, **G.K. Farber**. A Weak Calcium Binding Site in Subtilisin BPN has a Dramatic Effect on Protein Stability. J. Am. Chem. Soc. 118:1645-1650.
- Farber, G.K.** The Structural Effects of Solvent Engineering. Ann. N. Y. Acad. Sci. 799:85-89.
- Maupin-Furlow, J.A., and **J.G. Ferry**. Characterization of the *cdhD* and *cdhE* Genes Encoding Subunits of the Corrinoid/iron-sulfur Enzyme of the CO Dehydrogenase Complex from *Methanosarcina thermophila*. J. Bacteriol. 178:340-346.
- Alber, B.E., and **J.G. Ferry**. Characterization of Heterologously-produced Carbonic Anhydrase from *Methanosarcina thermophila*. J. Bacteriol. 178:2370-3274.
- Kisker, C., H. Schindelin, B.E. Alber, **J.G. Ferry**, and D.C. Rees. A Left-handed α -helix Revealed by the Crystal Structure of a Carbonic Anhydrase from an Archaeon. EMBO J. 15:2323-2330.
- Jablonski, P.E., D.J. Pheasant, and **J.G. Ferry**. Conversion of Keponone by *Methanosarcina thermophila*. FEMS Lett. 139:169-173.
- Latimer, M.T., M.A. Painter, and **J.G. Ferry**. Characterization of a Novel Iron-Sulfur Flavoprotein from *Methanosarcina thermophila*. J. Biol. Chem. 271:24023-24028.
- Maupin-Furlow, J.A., and **J.G. Ferry**. Analysis of the CO Dehydrogenase/acetyl-CoA Synthase Operon of *Methanosarcina thermophila*. J. Bacteriol. 178:6849-6856.
- Ferry, J.G.**, and J.A. Maupin-Furlow. Analysis of Genes in the Pathway for the Fermentation of Acetate to Methane by *Methanosarcina thermophila*. In: Microbial Growth on C₁ Compounds. (M. Lidstrom and R. Tabita, eds.), pp. 64-71, Kluwer Academic, Dordrecht, Netherlands.
- Rashce, M.E., and **J.G. Ferry**. Molecular Biology of Methanogens and *Archaea*. In: The Encyclopedia of Molecular Biology and Molecular Medicine. (R.A. Meyers, ed.), pp. 66-78, Weinheim, New York.
- Daniel, A.M., J.J. Swenson, R.P. Reddy Mayreddy, K. Khalili, and **R.J. Frisque**. Sequences Within the Early and Late Promoters of Archetype JC Virus Restrict Viral DNA Replication and Infectivity. Virology 216:90-101.
- Swenson, J.J., P.W. Trowbridge, and **R.J. Frisque**. Replication Activity of JC Virus Large T Antigen Phosphorylation and Zinc Finger Domain Mutants. J. NeuroVirology 2:78-86.
- Bollag, B., P.C. MacKeen, and **R.J. Frisque**. Purified JC Virus T Antigen Derived From Insect Cells Preferentially Interacts with Binding Site II of the Viral Core Origin Under Replication Conditions. Virology 218:81-93.

- Gay, C.V.** Role of Microscopy in Elucidating the Mechanism and Regulation of the Osteoclast Resorptive Apparatus. Micros. Res. Tech. 33:165-170.
- Twal, W.O., J. Wu, **C.V. Gay**, and R.M. Leach. Immunolocalization of Basic Fibroblastic Growth Factor in Avian Tibial Dyschondroplastic Cartilage. Poult. Sci. 75:130-134.
- May, L.G. and **C.V. Gay**. Development of a New Method for Obtaining Osteoclasts from Endosteal Surfaces. In Vitro Cell. Dev. Biol. 32:269-278.
- Luan, Y., C.A. Praul, **C.V. Gay**, and R.M. Leach. Basic Fibroblast Growth Factor: An Autocrine Growth Factor for Epiphyseal Growth Plate Chondrocytes. J. Cell. Biochem. 62:372-382.
- Wu, J., M. Pines, **C.V. Gay**, S. Hurwitz, and R.M. Leach. Immunolocalization of Osteonectin in Avian Tibial Dyschondroplastic Cartilage. Dev. Dynamics 207:69-74.
- Gay, C.V.** Avian Bone Turnover and the Role of Bone Cells. In: The Comparative Endocrinology of Calcium Regulation. (C. Dacke, J. Danks, I. Caple, and G. Flik, eds.), pp. 113-121, J. Endocrinology Ltd, Bristol, England.
- Li, B., J.A. Weber, Y. Chen, A.L. Greenleaf, and **D.S. Gilmour**. Analysis of Promoter-Proximal Pausing by RNA Polymerase II on the hsp70 Heat Shock Gene Promoter in a Drosophila Nuclear Extract. Mol. Cell Biol. 16:5433-5443.
- Naver, H., M.P. Scott, **J.H. Golbeck**, B.L. Møller, and H.V. Scheller. Reconstitution of Barley Photosystem I with Modified PSI-C Allows Identification of Domains Interacting with PSI-D and PSI-A/B. J. Biol. Chem. 271:8996-9001.
- Chitnis, V.P., Y.-S. Jung, L. Albee, **J.H. Golbeck**, and P.R. Chitnis. Mutational Analysis of Photosystem I Polypeptides: Role of PsaD and Lysyl 106 Residue in the Reductase Activity of Photosystem I. J. Biol. Chem. 271:11772-11780.
- Jung, Y.-S., I.R. Vassiliev, F. Qiao, F. Yang, D. Bryant, and **J.H. Golbeck**. Modified Ligands to F_A and F_B in Photosystem I. III. Chemical Rescue of a [4Fe-4S] Cluster Using an External Thiolate in Alanine, Glycine and Serine Mutants of PsaC. J. Biol. Chem. 271:31135-31144.
- Wells, T.A., A. Losi, R. Dai, P.A. Scott, S.-M. Park, **J.H. Golbeck**, and P.-S. Song. Electron Transfer Quenching and Photoinduced EPR of Hypericin and Ciliate Photoreceptor Stentorin. J. Phys. Chem. 101:366-372.
- Golbeck, J.H.** Photosystem I and its Bacterial Counterparts. In: CRC Handbook of Organic Photochemistry and Photobiology. (P.S. Song and W. Horspool, eds). pp. 1407-1419, CRC Press, Boca Raton, Florida.
- Hammerstedt, R.H.** Evaluation of Sperm Quality: Identification of the Subfertile and Course of Action. Anim. Reprod. Sci. 42:77-87.
- Harayama, H., S. Kato, and **R.H. Hammerstedt**. Electrophoretic Characterization of Boar Epididymal Antiagglutinin. Biol. Reprod. 55:325-332.
- Wilfinger, W.W., C.S. Baker, E.L. Kunze, A.T. Phillips, and **R.H. Hammerstedt**. Versatile Fluid-mixing Device for Cell and Tissue Microgravity Research Applications. J. Spacecraft Rockets 33:126-130.

Jackson, J.D., H. Petrykowska, S. Philipsen, W. Miller, and **R. Hardison**. Role of DNA Sequences Outside the Cores of DNase Hypersensitive Sites (Hss) in Functions of the α -globin Locus Control Region: Domain Opening and Synergism Between HS2 and HS3. J. Biol. Chem. 271:11871-11878.

Hardison, R. A Brief History of Hemoglobins - Plant, Animal, Protist, Bacteria (Commentary). Proc. Natl. Acad. Sci. USA 93:5675-5679.

Jackson, J.D. W. Miller, and **R. Hardison**. Sequences Within and Flanking DNase Hypersensitive Sites 3 and 2 of the α -globin Locus Control Region Required for Synergistic Versus Additive Interactions with the α -globin Gene Promoter. Nucleic Acids Res. 24:4327-4335.

Hymer, W.C., R.E. Grindeland, T. Salada, P. Nye, E.J. Grossman, and P. Lane. Experimental Modification of Rat Pituitary Growth Hormone Cell Function During and After Spaceflight. J. Appl. Physiol. 80:955-970.

Hymer, W.C., T. Salada, L. Avery, and R.E. Grindeland. Experimental Modification of Rat Pituitary Prolactin Cell Function During and After Spaceflight. J. Appl. Physiol. 80:971-980.

Hymer, W.C., T. Salada, R. Cenci, K. Krishnan, G.V.F. Seaman, R. Snyder, H. Matsumiya, and S. Nagaoka. Bioprocessing in Microgravity: Applications of Continuous Flow Electrophoresis to Rat Anterior Pituitary Particles. J. Biotechnol. 47:353-365.

Hymer, W.C., R.E. Grindland, T. Salada, R. Cenci, K. Krishnan, C. Mukai, and S. Nagaoka. Feeding Frequency Affects Cultured Rat Pituitary Cells in Low Gravity. J. Biotechnol. 47:289-312.

Spence, R.A., K.S. Anderson, and **K.A. Johnson**. HIV-1 Resistance to Nonnucleoside Inhibitors. Biochemistry 35:1054-1063.

Brandis, J.W., S.G. Edwards, and **K.A. Johnson**. Slow Rate of Phosphodiester Bond Formation Accounts for the Strong Bias that Taq DNA Polymerase Shows Against 2',3'-dideoxynucleotide Terminators. Biochemistry 35:2189-2200.

Moyer, M.L., Gilbert S.P., and **K.A. Johnson**. Purification and Characterization of Two Monomeric Kinesin Constructs. Biochemistry 35:6321-6329.

Spence, R.A. and **K.A. Johnson**. Therapeutic Potential of Nonnucleoside Reverse Transcriptase Inhibitors in the Treatment of HIV Infection. Exp. Opin. Invest. Drugs 5:985-1001.

McCubbin, A.G. and **T.-H. Kao**. Self-incompatibility and Pollen Rejection in Angiosperms. In: In Vitro Haploid Reproduction in Higher Plants. (S.M. Jain, S.K. Sopory, and R.E. Veilleux, eds.), Vol. 2, pp. 225-253, Kluwer Academic Publisher, Dordrecht, Netherlands.

McCubbin, A.G. and **T.-H. Kao**. Molecular Mechanisms of Self-incompatibility. Curr. Opin. Biotechnol. 7:150-154.

Lee, H.-S., B. Karunanandaa, A. McCubbin, S. Gilroy, and **T.-H. Kao**. PRK1, a Receptor-like Kinase of *Petunia inflata*, is Essential for Post-Meiotic Development of Pollen. Plant J. 9:613-624.

Kao, T.-H. and A.G. McCubbin. How Flowering Plants Discriminate Between Self and Non-self Pollen to Prevent Inbreeding. Proc. Natl. Acad. Sci. USA 93:12059-12065.

Kumar, S., K.A. Balczarek, and **Z.-C. Lai**. Evolution of the *hedgehog* Gene Family. Genetics 142:965-972.

Lai, Z.-C., S.D. Harrison, F. Karim, Y. Li, and G.M. Rubin. Loss of *tramtrack* Gene Activity results in Ectopic R7 Cell Formation, Even in a *sina* Mutant Background. Proc. Natl. Acad. Sci. USA 93:5025-5030.

Ellis, L.A., **A.M. Mastro**, and M.F. Picciano. Milk-borne Prolactin and Neonatal Development. J. Mammary Gland Biol. Neoplasia 1:259-268.

Gunes, H. and **A.M. Mastro**. Prolactin Receptor Gene Expression in Rat Splenocytes and Thymocytes from Birth to Adulthood. Mol. Cell. Endocrinol. 117:41-52.

Grove, D.S., C.V. Crowl, A. Gagajewski, C.-S. Yang, G.R. Reddy, G.A. Hamilton, and **A.M. Mastro**. Inhibition of Proliferation and of IL-2 Production and Utilization in Lymphocytes by S-oxalylglutathione. Exp. Cell Res. 225:162-170.

Grove, D.S. and **A.M. Mastro**. Modulation of Levels of a Negative Transcription Factor for IL-2 by 12-0-tetradecanoylphorbol-13-acetate and Okadaic Acid. Cytokine 8:809-819.

Kaufman, R.I. and **B.T. Nixon**. Use of PCR to Isolate Genes Encoding 54-dependent Activators from Diverse Bacteria. J. Bacteriol. 178:3967-3970.

Scholl, D. and **B.T. Nixon**. Cooperative Binding of DctD to the dctA UAS of Rhizobium Meliloti is Enhanced in a Constitutively Active Truncated Mutant. J. Biol. Chem. 271:26435-26442.

Wilfinger, W.W., C.S. Baker, E.L. Kunze, **A.T. Phillips**, and R.H. Hammerstedt. Versatile Fluid-mixing Device for Cell and Tissue Microgravity Research Applications. J. Spacecraft Rockets 33:126-130.

Taggart, A.K. and **B.F. Pugh**. Dimerization of TFIID When not Bound to DNA. Science 272:1331-1333.

Pugh, B.F. Mechanisms of Transcription Complex Assembly. Curr. Opin. Cell. Biol. 8:303-311.

Tang, X., M.S. Halleck, **R.A. Schlegel**, and P. Williamson. A Subfamily of P-type ATPases with Aminophospholipid Transporting Activity. Science 272:1495-1497.

Comfurius, P., P. Williamson, E.F. Smeets, **R.A. Schlegel**, E.M. Bevers, and R.F.A. Zwaal. Reconstitution of Phospholipid Scramblase Activity from Human Blood Platelets. Biochemistry 35:7631-7634.

Schlegel, R.A., M. Callahan, S. Krahling, D. Pradhan, and P. Williamson. Mechanisms for Recognition and Phagocytosis of Apoptotic Lymphocytes by Macrophages. In: Mechanisms of Lymphocyte Activation and Immune Regulation VI: Cell Cycle and Programmed Cell Death in the Immune System. (S. Gupta and J.J. Cohen, eds.), pp. 21-28, Plenum, New York.

Kladde, M.P., M. Xu, and **R.T. Simpson**. Direct Study of DNA-protein Interactions in Repressed and Active Chromatin in Living Cells. EMBO J. 15:6290-6300.

Kladde, M.P. and **R.T. Simpson**. Chromatin Structure Mapping *in vivo* Using Methyltransferases. Methods Enzymol. 274:214-233.

Simpson, R.T. Chromatin Structure and Gene Expression. Trends Biochem. Sci. 21:198-199.

Stewart, P., R.E. Whitwam, P.J. Kersten, D. Cullen, and **M. Tien**. Efficient Expression of a *Phanerochaete chrysosporium* Manganese Peroxidase Gene in *Aspergillus oryzae*. Appl. Environ. Microbiol. 6:860-864.

- Koduri, R.S., R.E. Whitwam, D. Barr, S.D. Aust, and **M. Tien**. Oxidation of 1,2,4,5-Tetramethoxybenzene by Lignin Peroxidase of *Phanerochaete chrysosporium*. Arch. Biochem. Biophys. 326:216-265.
- Nanny, M.A., J.M. Bortiatynski, **M. Tien**, and P.G. Hatcher. Investigations of Enzymatic Alterations of 2,4-dichlorophenol Using ¹³C-Nuclear Magnetic Resonance in Combination with Site-Specific ¹³C-Labeling: Understanding the Environmental Fate of This Pollutant. Environ. Toxicol. Chem. 15:1857-1864.
- Whitwam, R and **M. Tien**. Heterologous Expression and Reconstitution of Fungal Mn Peroxidase. Arch. Biochem. Biophys. 333:439-446.
- Myer, S. and **M. Tien**. Characterization of Biodegradation Catalyzed by Mutant Strains of Phanerochaete Chrysosporium and other Fungi. In: Culture Collector to Improve the Quality of Life. (R.A. Samson, J.A. Stalpers, D. van der Mei, and A.H. Stouthamer, eds.), pp. 344-351, Ponsen & Looyen, Wageningen, Netherlands.
- Vettese-Dadey, M., P.A. Grant, T.R. Hebbes, C. Crane-Robinson, C.D. Allis, and **J.L. Workman**. Acetylation of Histone H4 Plays a Primary Role in Enhancing Transcription Factor Binding to Nucleosomal DNA *in vitro*. EMBO J. 15:2508-2518.
- Owen-Hughes, T.A., R.T. Utley, J. Cote, C.L. Peterson, and **J.L. Workman**. Persistent Site-specific Remodeling of a Nucleosome Array by Transient Action of the SWI/SNF Complex. Science 273:513-516.
- Owen-Hughes, T.A. and **J.L. Workman**. Remodeling the Chromatin Structure of a Nucleosome Array by Transcription Factor-targeted Trans-displacement of Histones. EMBO J. 15:4702-4717.
- Niu, X., C.C. Adams, **J.L. Workman**, and M.J. Guiltinan. Binding of the Wheat bzip Protein, EMBP-1, to Nucleosomal DNA is Modulated by Nucleosome Positioning. Plant Cell 8:1596-1587.
- Wang, W., J. Cote, Y. Xue, S. Zhou, P.A. Kavari, S.R. Biggar, C. Muchardt, G.V. Kalpana, S.P. Goff, M. Yaniv, **J.L. Workman**, and G.R. Crabtree. Purification and Biochemical Heterogeneity of the Mammalian SWI/SNF Complex. EMBO J. 15:5370-5382.
- Mizzen, C.A., X.J. Yang, J.E. Brownell, A.J. Bannister, T. Owen-Hughes, **J.L. Workman**, S.L. Berger, T. Kouzarides, Y. Nakatani, and C.D. Allis. The TAF_{II}230-250 Subunit of TFIID has Histone Acetyltransferase Activity. Cell 87:1261-1270.
- Steger, D.J. and **J.L. Workman**. Remodeling Chromatin Structures for Transcription: What Happens to the Histones? Bioessays 18:875-883.
- Utley, R.T., T.A. Owen-Hughes, L.-J. Juan, J. Cote, C.C. Adams, and **J.L. Workman**. *In vitro* Analysis of Transcription Factor Binding to Nucleosomes and Nucleosome Disruption/displacement. Methods Enzymol. 274:2376-2391.