

PROFESSIONAL MEETINGS (Since 2002)

(italic – members of S. Savikhin's group)

S. Savikhin, H. Kim, H. Li, J. Maresca, D. Bryant, Novel photo-protection mechanism in strongly coupled chlorophyll complexes: triplet excitons in chlorosomes and in artificial chlorophyll aggregates. XIVth International Congress on Photosynthesis, Glasgow, UK, July 22-27, 2007. This was one of only 4 submissions selected for oral presentation in this session; the remaining 66 were given as posters.

N. Dashdorj, E. Yamashita, J. Schaibley, W. A. Cramer, and S. Savikhin. Ultrafast Optical Studies of the Cytochrome b₆f Complex in Solution and Crystalline States. XIVth International Congress on Photosynthesis, Glasgow, UK, July 22-27, 2007

S. Savikhin, H. Kim, H. Li, J. Maresca, D. Bryant. Novel photo-protection mechanism in strongly coupled chlorophyll complexes: triplet excitons in chlorosomes and in artificial chlorophyll aggregates. Light Harvesting Systems Workshop, Drymen, UK, July 19-21, 2007

Hanyoung Kim, Hui Li, Julia A. Maresca, Donald A. Bryant, and Sergei Savikhin (2007). Novel photoprotection mechanism in strongly coupled chlorophyll complexes: triplet excitons in chlorosomes and in artificial chlorophyll aggregates. American Physical Society Meeting, Baltimore, March, 2007.

Hanyoung Kim, Hui Li, Julia A. Maresca, Donald A. Bryant, and Sergei Savikhin (2007). Novel photoprotection mechanism in strongly coupled chlorophyll complexes: triplet excitons in chlorosomes and in artificial chlorophyll aggregates. American Biophysical Society Meeting, Denver, March, 2007.

H. Kim, N. Dashdorj, H. Zhang, J. Yan, W. A. Cramer, and S. Savikhin (2006). Divergence of protein structure in solvent from that in x-ray quality crystals: probing the local environment of the Chl *a* in the cytochrome b₆f complexes by ultrafast spectroscopy. Midwest/Southeast Photosynthesis Meeting, Turkey Run, IN October 28-30.

Hanyoung Kim, Hui Li, Julia A. Maresca, Donald A. Bryant and Sergei Savikhin (2006). Novel photoprotection mechanisms in chlorosomes from green sulfur bacterium *Chlorobium tepidum*. Midwest/Southeast Photosynthesis Meeting, Turkey Run, IN October 28-30.

N. Dashdorj, Yamashita G., Cramer WA and Savikhin S (2006). Assessing the crystal packing on the protein structure: Comparative ultrafast optical studies of oligomeric protein complex in solution and in single crystals. Gordon Research Conference on Photosynthesis, July 2-7, Bryant University, Smithfield, RI.

H. Kim, M. D. Kane, S. Kim, W. Dominguez, B. M. Applegate, and S. Savikhin (2006). Development of False Signal Suppressing Biosensor Utilizing Color Changing Molecular Beacon on Microarray Platform for Rapid Detection of *Escherichia Coli* O157:H7. The Ninth World Congress on Biosensors, May 10-12, Toronto, ON, Canada

N. Dashdorj, H. Zhang, J. Yan, E. Yamashita, J. Schaibley, W. A. Cramer, and S. Savikhin (2006). Divergence of protein structure in solvent from that in X-ray quality crystals: probing the local environment of Chl *a* in the cytochrome b₆f complexes by ultrafast spectroscopy. *American Physical Society Meeting*, March 13-17, Baltimore, MD.

H. Kim, N. Dashdorj, H. Zhang, J. Yan, W. A. Cramer, and S. Savikhin (2006). Novel protection mechanisms against singlet oxygen formation by the Chl *a* molecule in the cytochrome b₆f complex of oxygenic photosynthesis. *American Physical Society Meeting*, March 13-17, Baltimore, MD.

H. Kim, H. Li, D. A. Bryant, **and S. Savikhin** (2006). Novel photoprotection mechanisms in chlorosomes from green sulfur bacterium *Chlorobium tepidum*. *American Physical Society Meeting*, March 13-17, Baltimore, MD.

H. Kim, H. Li, J. A. Maresca, D. A. Bryant, **and S. Savikhin** (2006) Novel Photo-protection mechanisms in chlorosomes from the green sulfur bacterium *Chlorobium Tepidum*. *50th Meeting of American Biophysical Society*. February 18-22, Salt Lake City, Utah. 775-Plat.

Applegate BM, **Savikhin S**, Fratamico P, Dominguez W, Kim H, Aimet A, Kane MD (2005) *Multiplexed detection of pathogens using fluorescence resonance energy transfer in a spatial detection format*. 7th Annual ARS-Purdue Research Planning Workshop, Nov 2-3, West Lafayette, IN, U.S.A.

H. Kim, Hui Li, Julia A. Maresca, Donald A. Bryant, **and S. Savikhin** (2005) Novel photo-protection mechanisms in chlorosomes from the green sulfur bacterium *Chlorobium tepidum*. *31st Midwest/Southeast Photosynthesis Meeting*, October 28-30, Turkey Run, IN

N. Dashdorj, J. Yan, W. A. Cramer, and **S. Savikhin** (2005). Tuning the chlorophyll singlet excited state lifetime: point mutagenesis studies in the nanospace of the unique chlorophyll *a* of the cytochrome *b₆f* complex. *31st Midwest/Southeast Photosynthesis Meeting*, October 28-30, Turkey Run, IN

N. Dashdorj, G. Shen, W. Xu, J. H. Golbeck, **and S. Savikhin** (2005). Quaternary structural rearrangements: subunit deletion induced effects on the excitonic coupling of the primary electron donor in photosystem I. *31st Midwest/Southeast Photosynthesis Meeting*, October 28-30, Turkey Run, IN

H. Kim, N. Dashdorj, H. Zhang, J. Yan, W. A. Cramer, **and S. Savikhin** (2005) The Chl *a* molecule in the cytochrome *b₆f* complex: Unique protection mechanisms against singlet oxygen, *Gordon Research Conference*, July 3-8, Bryant University, Smithfield, RI.

Dominguez, W., S. Kim, H. Kim, **S. Savikhin**, M. Kane, and B. M. Applegate (2005). Multiplex PCR for the Simultaneous Detection of the Foodborne Pathogens: *Escherichia coli* O157:H7, *Salmonella enterica*, and *Listeria monocytogenes*. *American Society for Microbiology General Meeting*, June 5-9, 2005, Atlanta, GA.

N. Dashdorj, H. Zhang, J. Yan, H. Kim, W. A. Cramer **and S. Savikhin** (2005) Quenching the singlet excited state of the monomeric chlorophyll *a* in the cytochrome *b₆f* complex of oxygenic photosynthesis: Excitation-induced electron transfer mechanism. *49th Annual Meeting of American Biophysical Society*. February 12-16, Long Beach, CA. 2493-Pos.

H. Kim, N. Dashdorj, H. Zhang, J. Yan, W. A. Cramer, **and S. Savikhin** (2005) The Chl *a* molecule in the cytochrome *b₆f* of oxygenic photosynthesis: A unique protection mechanism against singlet oxygen formation. *49th Annual Meeting of American Biophysical Society*. February 12-16, Long Beach, CA. 864-Plat.

Dashdorj N, Xu W, Chitnis PR, Martinsson P, **and Savikhin S** (2004) Stark Effect in Photosystem I: A Probe of Optical and Dielectric Properties around the Secondary Electron Acceptor. *51st Midwest Solid State Conference*. Purdue University, West Lafayette, IN, U.S.A. Oct 30-31.

Dashdorj N, Zhang H, Kim H, Yan J, Cramer WA, **and Savikhin S** (2004). Quenching the Singlet Excited State of the Unique Chlorophyll *a* in the Cytochrome *b₆f* Complex as a Unique Photoprotection Mechanism. *30th Annual Midwest Photosynthesis Meeting*. Turkey Run State Park, Marshall, IN, U.S.A. Oct 29-31

Kim H, Dashdorj N, Zhang H, Yan J, Cramer WA, and Savikhin S (2004) The Chlorophyll a Molecule in the Cytochrome *b₆f* Complex: Is It Protected against Singlet Oxygen Formation? 30th Midwest Photosynthesis Meeting. Turkey Run State Park, Marshall, IN, U.S.A. Oct 29-31

Dashdorj N, Xu W, Cohen RO, Golbeck JH, and Savikhin S (2004) Probing the Active Electron Transfer Branch in the Photosystem I Reaction Center from *Synechocystis* sp. PCC 6803. 13th International Congress of Photosynthesis, Aug 29 - Sep 3. Montréal, QU, Canada.

Dashdorj N, Zhang H, Kim H, Yan J, Cramer WA, and Savikhin S (2004). Unusual Optical Properties of the Monomeric Chlorophyll *a* in the Cytochrome *b₆f* Complex of Oxygenic Photosynthesis. 13th International Congress of Photosynthesis, Aug 29 - Sep 3. Montréal, QU, Canada.

Kim H, Zhang H, Dashdorj N, Yan J, Cramer WA, and Savikhin S (2004). Evidence For Long Range Triplet Excited State Energy Transfer from the Chlorophyll *a* to Carotenoid in the Cytochrome *b₆f* Complex of Oxygenic Photosynthesis. 13th International Congress of Photosynthesis, Aug 29 - Sep 3. Montréal, QU, Canada.

Dashdorj N, Zhang H, Kim H, Yan J, Cramer WA, and Savikhin S (2004) Optical Properties of the Chlorophyll *a* Molecule in the Cytochrome *b₆f* Complex of Oxygenic Photosynthesis. 32nd Annual Meeting of the American Society for Photobiology, Seattle, WA, U.S.A. July 10-14.

Dashdorj N, Xu W, Golbeck JH, Chitnis PR, and Savikhin S (2004). Probing Active Electron Transfer Branch in the Photosystem I Reaction Center from *Synechocystis* sp. PCC 6803 by means of Ultrafast Spectroscopy. 32nd Annual Meeting of the American Society for Photobiology. Seattle, WA, U.S.A. July 10-14, 2004.

Dashdorj N, Zhang H, Kim H, Yan J, Cramer WA, and Savikhin S (2004). Optical Properties of the Single Chlorophyll *a* Molecule in the Cytochrome *b₆f* Complex of Oxygenic Photosynthesis. Biophysical Society's 48th Annual Meeting. Baltimore, MA, U.S.A. Feb 14-18.

Dashdorj N, Xu W, Chitnis PR, Golbeck JH, and Savikhin S (2003). Probing Active Electron Transfer Branch in Photosystem I: Ultrafast Pump-Probe Spectroscopy. 29th Annual Midwest Photosynthesis Meeting. TurkeyRun State Park, Marshall, IN, U.S.A. Nov 2-4.

Dashdorj N, Xu W, Chitnis PR, Martinsson P, and Savikhin S (2003). Electrochromic Shift and Effective Dielectric Constant around the Primary Electron Acceptor in Photosystem I. 29th Annual Midwest Photosynthesis Meeting. TurkeyRun State Park, Marshall, IN, U.S.A. Nov 2-4.

Dashdorj N, Xu W, Chitnis PR, Martinsson P, and Savikhin S (2003). Electrochromic Shift and Effective Dielectric Constant around the Primary Electron Acceptor in Photosystem I. Gordon Research Conference on Photosynthesis. Roger Williams University, Bristol, RI, U.S.A. June 22-27.

Dashdorj N, Xu W, Chitnis PR, Shen G, Golbeck JH, and Savikhin S (2003). Probing Active Electron Transfer Branch in Photosystem I: Ultrafast Pump-Probe Spectroscopy. Gordon Research Conference on Photosynthesis. Roger Williams University, Bristol, RI, U.S.A. June 22-27.

Savikhin S, Dashdorj N, Xu W, Chitnis PR, Shen G, and Golbeck JH (2003). Probing Active Electron Transfer Branch in Photosystem I: Ultrafast Pump-Probe Spectroscopy. Photosystem I Conference 2003. Berlin, Germany. May 12-15

Savikhin S, Dashdorj N, Xu W, Martinsson P, and Chitnis PR (2003). Local Dielectric Constant around the Primary Electron Acceptor in Photosystem I: A Probe for Protein Matrix Relaxation. Annual American Physical Society March Meeting. Austin, TX, U.S.A. March 3-7.

Dashdorj N, Xu W, Chitnis PR, and Savikhin S (2003). Probing Active Electron Transfer Branch in the Photosystem I Reaction Center by means of Ultrafast Spectroscopy. Biophysical Society's 47th Annual Meeting. San Antonio, TX, U.S.A. March 1-5

Xu W, Martinsson P, Struve WS, *Dashdorj N, Chitnis PR, and Savikhin S* (2002) Probing Active Electron Transfer Branch in Photosystem I Reaction Center. Gordon Research Conference on Photosynthesis. RogerWilliams University, Bristol, RI, U.S.A. June 16-21.