





## Arthur Grossman

- Visiting Professor (By courtesy), Biology
- Professor (By Courtesy), Biology
-  NIH Biosketch available Online
-  Curriculum Vitae available Online

### Bio

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#### BIO

Arthur Robert Grossman (born 1950): Arthur Grossman has been a Staff Scientist at The Carnegie Institution for Science, Department of Plant Biology since 1982, and holds a courtesy appointment as Professor in the Department of Biology at Stanford University. He has performed research across fields ranging from plant biology, microbiology, marine biology, ecology, genomics, engineering and photosynthesis and initiated large scale algal genomics by leading the *Chlamydomonas* genome project (sequencing of the genome coupled to transcriptomics). During his tenure at Carnegie, he mentored more than fifteen PhD students and approximately 40 post-doctoral fellows (many of whom have become very successful independent scientists at both major universities and in industry). In 2002 he received the Darbaker Prize (Botanical Society of America) for work on microalgae and in 2009 received the Gilbert Morgan Smith Medal (National Academy of Sciences) for the quality of his publications on marine and freshwater algae. In 2015 he was Vice Chair of the Gordon Research Conference on Photosynthesis and in 2017 was Chair of that same conference (Photosynthetic plasticity: From the environment to synthetic systems). He also gave the Arnon endowed lecture on photosynthesis in Berkeley in March of 2017, has given numerous plenary lectures and received a number of fellowships throughout his career, including the Visiting Scientist Fellowship - Department of Life and Environmental Sciences (DiSVA), Università Politecnica delle Marche (UNIVPM) (Italy, 2014), the Lady Davis Fellowship (Israel, 2011) and most recently the Chaire Edmond de Rothschild (to work IBPC in Paris in 2017-2018). He has been Co-Editor in Chief of Journal of Phycology and has served on the editorial boards of many well-respected biological journals including the Annual Review of Genetics, Plant Physiology, Eukaryotic Cell, Journal of Biological Chemistry, Molecular Plant, and Current Genetics. He has also reviewed innumerable papers and grants, served on many scientific panels that has evaluated various programs for granting agencies [NSF, CNRS, Marden program (New Zealand)] and private companies. He has also served in a scientific advisory capacity for both nonprofit and for profit companies including Phoenix Bioinformatics, Excelixis, Martex, Solazyme/TerraVia, Checkerspot, Phycoil and CarbonDrop. Recently he has worked with Francis-Andre Wollman, Susan Dutcher and Ursula Goodenough to complete a highly expanded third edition of the *Chlamydomonas* Sourcebook (Elsevier, 2023).

#### ACADEMIC APPOINTMENTS

- Visiting Professor (By courtesy), Biology

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

How photosynthetic organisms perceive and respond to their environment

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Research Mentor

Lev Tsypin

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)

## Publications

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### PUBLICATIONS

- **Mitotic entry is controlled by the plant-specific phosphatase BSL1 and cyclin-dependent kinase B.** *Nature plants*  
Tulin, F., Aizezi, Y., Reyes, A. V., Fujieda, Y., Grossman, A., Xu, S. L., Onishi, M., Assaad, F. F., Wang, Z. Y.  
2025
- **Octadecanoids as emerging lipid mediators in cnidarian-dinoflagellate symbiosis.** *Communications biology*  
Botana, M. T., Lewis, R. E., Quaranta, A., Salamin, O., Revol-Cavalier, J., Oakley, C. A., Feussner, I., Hamberg, M., Grossman, A. R., Suggett, D. J., Weis, V. M., Wheelock, C. E., Davy, et al  
2025; 8 (1): 1519
- **Quantifying CO<sub>2</sub>-dependent positional changes of mitochondria in wild-type and miro mutants of *Chlamydomonas reinhardtii* using ellipsoid shape approximations.** *The Plant journal : for cell and molecular biology*  
Malkovskiy, A. V., Findinier, J., Grossman, A. R.  
2025; 124 (4): e70601
- **Oxylipin signalling in a coral-dinoflagellate symbiosis** *CORAL REEFS*  
Gamba, A. G., Harii, S., Sinniger, F., Oakley, C. A., Grossman, A. R., Weis, V. M., Suggett, D. J., Davy, S. K.  
2025
- **Mitotic entry is controlled by the plant-specific phosphatase BSL1 and cyclin-dependent kinase B.** *bioRxiv : the preprint server for biology*  
Tulin, F., Aizezi, Y., Reyes, A. V., Fujieda, Y., Grossman, A., Xu, S. L., Onishi, M., Assaad, F., Wang, Z. Y.  
2025
- **Dihydroxyacetone phosphate generated in the chloroplast mediates the activation of TOR by CO<sub>2</sub> and light.** *Science advances*  
Mallén-Ponce, M. J., Quintero-Moreno, A. M., Gámez-Arcas, S., Grossman, A. R., Pérez-Pérez, M. E., Crespo, J. L.  
2025; 11 (16): eadu1240
- **Stability of the cnidarian-dinoflagellate symbiosis is primarily determined by symbiont cell-cycle arrest.** *Proceedings of the National Academy of Sciences of the United States of America*  
Gorman, L. M., Tivey, T. R., Raymond, E. H., Ashley, I. A., Oakley, C. A., Grossman, A. R., Weis, V. M., Davy, S. K.  
2025; 122 (14): e2412396122
- **The Influence of Symbiont Identity on the Proteomic and Metabolomic Responses of the Model Cnidarian *Aiptasia* to Thermal Stress.** *Environmental microbiology*  
Lust, B., Matthews, J. L., Oakley, C. A., Lewis, R. E., Mendis, H., Peng, L., Grossman, A. R., Weis, V. M., Davy, S. K.  
2025; 27 (3): e70073
- **Cyanobacteria and Chloroflexota cooperate to structure light-responsive biofilms.** *Proceedings of the National Academy of Sciences of the United States of America*  
Bunbury, F., Rivas, C., Calatrava, V., Malkovskiy, A. V., Joubert, L. M., Parvate, A. D., Evans, J. E., Grossman, A. R., Bhaya, D.  
2025; 122 (5): e2423574122
- **Abundant and active community members respond to diel cycles in hot spring phototrophic mats.** *The ISME journal*  
Shelton, A. N., Yu, F. B., Grossman, A. R., Bhaya, D.  
2025

- **Oxylipin Receptors and Their Role in Inter-Partner Signalling in a Model Cnidarian-Dinoflagellate Symbiosis.** *Environmental microbiology*  
Gamba, A. G., Oakley, C. A., Ashley, I. A., Grossman, A. R., Weis, V. M., Suggett, D. J., Davy, S. K.  
2024; 26 (12): e70015
- **Photosynthetic Electron Flows and Networks of Metabolite Trafficking to Sustain Metabolism in Photosynthetic Systems.** *Plants (Basel, Switzerland)*  
Fakhimi, N., Grossman, A. R.  
2024; 13 (21)
- **Dramatic changes in mitochondrial subcellular location and morphology accompany activation of the CO<sub>2</sub> concentrating mechanism.** *Proceedings of the National Academy of Sciences of the United States of America*  
Findinier, J., Joubert, L. M., Fakhimi, N., Schmid, M. F., Malkovskiy, A. V., Chiu, W., Burlacot, A., Grossman, A. R.  
2024; 121 (43): e2407548121
- **Self-aggregation for sustainable harvesting of microalgae** *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*  
Muir, E., Grossman, A. R., Chisti, Y., Fedrizzi, B., Guieysse, B., Plouviez, M.  
2024; 83
- **Lighting the way: Compelling open questions in photosynthesis research.** *The Plant cell*  
Eckardt, N. A., Allahverdiyeva, Y., Alvarez, C. E., Büchel, C., Burlacot, A., Cardona, T., Chaloner, E., Engel, B. D., Grossman, A. R., Harris, D., Herrmann, N., Hodges, M., Kern, et al  
2024
- **Proteomes of native and non-native symbionts reveal responses underpinning host-symbiont specificity in the cnidarian-dinoflagellate symbiosis.** *The ISME journal*  
Mashini, A. G., Oakley, C. A., Peng, L., Grossman, A. R., Weis, V. M., Davy, S. K.  
2024
- **Evidence of a putative CO<sub>2</sub> delivery system to the chromatophore in the photosynthetic amoeba Paulinella.** *Environmental microbiology reports*  
Gabr, A., Stephens, T. G., Reinfelder, J. R., Liao, P., Calatrava, V., Grossman, A. R., Bhattacharya, D.  
2024; 16 (3): e13304
- **Alternative electron pathways of photosynthesis power green algal CO<sub>2</sub> capture.** *The Plant cell*  
Peltier, G., Stoffel, C., Findinier, J., Madireddi, S. K., Dao, O., Epting, V., Morin, A., Grossman, A., Li-Beisson, Y., Burlacot, A.  
2024
- **Photosynthesis and other factors affecting the establishment and maintenance of cnidarian-dinoflagellate symbiosis.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Tran, C., Rosenfield, G. R., Cleves, P. A., Krediet, C. J., Paul, M. R., Clowez, S., Grossman, A. R., Pringle, J. R.  
2024; 379 (1901): 20230079
- **Genome-wide distribution of 5-hydroxymethyluracil and chromatin accessibility in the *Breviolum minutum* genome.** *Genome biology*  
Marinov, G. K., Chen, X., Swaffer, M. P., Xiang, T., Grossman, A. R., Greenleaf, W. J.  
2024; 25 (1): 115
- **Shining light on dinoflagellate photosystem I.** *Nature communications*  
Lin, S., Wu, S., He, J., Wang, X., Grossman, A. R.  
2024; 15 (1): 3337
- **Dramatic Changes in Mitochondrial Subcellular Location and Morphology Accompany Activation of the CO<sub>2</sub> Concentrating Mechanism.** *bioRxiv : the preprint server for biology*  
Findinier, J., Joubert, L. M., Schmid, M. F., Malkovskiy, A., Chiu, W., Burlacot, A., Grossman, A. R.  
2024
- **GreenCut protein LPB1 is required for SQDG accumulation and optimal photosynthetic electron transfer from Q<sub>A</sub>-S<sub>2</sub>P to Q<sub>B</sub> in *Chlamydomonas reinhardtii*** *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*  
Zhu, S., Yang, H., Bin, S., Wang, M., You, T., Li, X., Tian, L., Grossman, A. R., Lu, S., Yang, W.  
2024; 79
- **Protocol for mapping the three-dimensional organization of dinoflagellate genomes.** *STAR protocols*

- Marinov, G. K., Kundaje, A., Greenleaf, W. J., Grossman, A. R.  
2024; 5 (2): 102941
- **Draft genome of *Chloroflexus* sp. MS-CIW-1, of the *Chloroflexus* sp. MS-G group from Mushroom Spring, Yellowstone National Park.** *Microbiology resource announcements*  
Shelton, A. N., Yu, F. B., Bunbury, F., Yan, J., Rivas, C., Grossman, A., Bhaya, D.  
2024: e0071023
  - **Chloroplast Methyltransferase Homolog RMT2 is Involved in Photosystem I Biogenesis.** *bioRxiv : the preprint server for biology*  
Kim, R. G., Huang, W., Findinier, J., Bunbury, F., Redekop, P., Shrestha, R., Vilarrasa-Blasi, J., Jinkerson, R. E., Fakhimi, N., Fauser, F., Jonikas, M. C., Onishi, M., Xu, et al  
2023
  - **Genome-wide distribution of 5-hydroxymethyluracil and chromatin accessibility in the *Breviolum minutum* genome.** *bioRxiv : the preprint server for biology*  
Marinov, G. K., Chen, X., Swaffer, M. P., Xiang, T., Grossman, A. R., Greenleaf, W. J.  
2023
  - **Symbiont Identity Impacts the Microbiome and Volatilome of a Model Cnidarian-Dinoflagellate Symbiosis.** *Biology*  
Wuerz, M., Lawson, C. A., Oakley, C. A., Possell, M., Wilkinson, S. P., Grossman, A. R., Weis, V. M., Suggett, D. J., Davy, S. K.  
2023; 12 (7)
  - ***Chlamydomonas*: Fast tracking from genomics.** *Journal of phycology*  
Findinier, J., Grossman, A. R.  
2023
  - **One step further toward a crop CO<sub>2</sub>-concentrating mechanism.** *Journal of experimental botany*  
Findinier, J., Grossman, A. R.  
2023; 74 (12): 3402-3405
  - **Light-independent regulation of algal photoprotection by CO<sub>2</sub> availability.** *Nature communications*  
Aguila Ruiz-Sola, M., Flori, S., Yuan, Y., Villain, G., Sanz-Luque, E., Redekop, P., Tokutsu, R., Kuken, A., Tschla, A., Kepesidis, G., Allorent, G., Arend, M., Iacono, et al  
2023; 14 (1): 1977
  - ***Chlamydomonas* mutants lacking chloroplast TRIOSE PHOSPHATE TRANSPORTER3 are metabolically compromised and light-sensitive.** *The Plant cell*  
Huang, W., Krishnan, A., Plett, A., Meagher, M., Linka, N., Wang, Y., Ren, B., Findinier, J., Redekop, P., Fakhimi, N., Kim, R. G., Karns, D. A., Boyle, et al  
2023
  - **Restricting electron flow at cytochrome b6f when downstream electron acceptors are severely limited.** *Plant physiology*  
Saroussi, S., Redekop, P., Karns, D. A., Thomas, D. C., Wittkopp, T. M., Posewitz, M. C., Grossman, A. R.  
2023
  - **The Influence of Symbiosis on the Proteome of the Exaíptasia Endosymbiont *Breviolum minutum*.** *Microorganisms*  
Mashini, A. G., Oakley, C. A., Beepat, S. S., Peng, L., Grossman, A. R., Weis, V. M., Davy, S. K.  
2023; 11 (2)
  - **Symbiosis induces unique volatile profiles in the model cnidarian *Aiptasia*.** *The Journal of experimental biology*  
Wuerz, M., Lawson, C. A., Ueland, M., Oakley, C. A., Grossman, A. R., Weis, V. M., Suggett, D. J., Davy, S. K.  
2022
  - **Lifestyle differences and carbon acquisition in *Paragymnodinium* dinoflagellates.** *Journal of phycology*  
Grossman, A. R.  
2022; 58 (4): 487-489
  - **Immunolocalization of Metabolite Transporter Proteins in a Model Cnidarian-Dinoflagellate Symbiosis.** *Applied and environmental microbiology*  
Mashini, A. G., Oakley, C. A., Grossman, A. R., Weis, V. M., Davy, S. K.  
2022: e0041222

- **Retrotransposition facilitated the establishment of a primary plastid in the thecate amoeba *Paulinella*.** *Proceedings of the National Academy of Sciences of the United States of America*  
Calatrava, V., Stephens, T. G., Gabr, A., Bhaya, D., Bhattacharya, D., Grossman, A. R.  
2022; 119 (23): e2121241119
- **Transcriptional regulation of photoprotection in dark-to-light transition-More than just a matter of excess light energy.** *Science advances*  
Redekop, P., Sanz-Luque, E., Yuan, Y., Villain, G., Petroustos, D., Grossman, A. R.  
2022; 8 (22): eabn1832
- **Intelligent image-activated sorting of *Chlamydomonas reinhardtii* by mitochondrial localization.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*  
Harmon, J., Findinier, J., Ishii, N. T., Herbig, M., Isozaki, A., Grossman, A., Goda, K.  
2022
- **Symbiosis with Dinoflagellates Alters Cnidarian Cell-Cycle Gene Expression** *CELLULAR MICROBIOLOGY*  
Gorman, L. M., Konciute, M. K., Cui, G., Oakley, C. A., Grossman, A. R., Weis, V. M., Aranda, M., Davy, S. K.  
2022; 2022
- **Systematic characterization of gene function in the photosynthetic alga *Chlamydomonas reinhardtii*.** *Nature genetics*  
Fauser, F., Vilarrasa-Blasi, J., Onishi, M., Ramundo, S., Patena, W., Millican, M., Osaki, J., Philp, C., Nemeth, M., Salome, P. A., Li, X., Wakao, S., Kim, et al  
2022
- **Differential Phototactic Behavior of Closely Related Cyanobacterial Isolates from Yellowstone Hot Spring Biofilms.** *Applied and environmental microbiology*  
Bunbury, F., Rivas, C., Calatrava, V., Shelton, A. N., Grossman, A., Bhaya, D.  
2022: e0019622
- **Cnidarian-Symbiodiniaceae symbiosis establishment is independent of photosynthesis.** *Current biology : CB*  
Jinkerson, R. E., Russo, J. A., Newkirk, C. R., Kirk, A. L., Chi, R. J., Martindale, M. Q., Grossman, A. R., Hatta, M., Xiang, T.  
2022
- **The chromatin organization of a chlorarachniophyte nucleomorph genome.** *Genome biology*  
Marinov, G. K., Chen, X., Wu, T., He, C., Grossman, A. R., Kundaje, A., Greenleaf, W. J.  
2022; 23 (1): 65
- **Deep imaging flow cytometry.** *Lab on a chip*  
Huang, K., Matsumura, H., Zhao, Y., Herbig, M., Yuan, D., Mineharu, Y., Harmon, J., Findinier, J., Yamagishi, M., Ohnuki, S., Nitta, N., Grossman, A. R., Ohya, et al  
2022
- **Genomic conservation and putative downstream functionality of the phosphatidylinositol signalling pathway in the cnidarian-dinoflagellate symbiosis.** *Frontiers in microbiology*  
Ashley, I. A., Kitchen, S. A., Gorman, L. M., Grossman, A. R., Oakley, C. A., Suggett, D. J., Weis, V. M., Rosset, S. L., Davy, S. K.  
2022; 13: 1094255
- **INSIGHTS INTO THE EVOLUTION OF A PRIMARY ENDOSYMBIOSIS THROUGH ANALYSIS OF THE PAULINELLA GENOME**  
Stephens, T. G., Calatrava, V., Gabr, A., Grossman, A., Bhattacharya, D.  
TAYLOR & FRANCIS LTD.2021: 54
- **WHY IS PRIMARY ENDOSYMBIOSIS SO RARE?**  
Bhattacharya, D., Stephens, T. G., Gabr, A., Calatreva, V., Grossman, A. R.  
TAYLOR & FRANCIS LTD.2021: 41-42
- **Why is primary endosymbiosis so rare?** *The New phytologist*  
Stephens, T. G., Gabr, A., Calatrava, V., Grossman, A. R., Bhattacharya, D.  
2021
- **Transcription-dependent domain-scale three-dimensional genome organization in the dinoflagellate *Breviolum minutum*.** *Nature genetics*  
Marinov, G. K., Trevino, A. E., Xiang, T., Kundaje, A., Grossman, A. R., Greenleaf, W. J.

2021

- **Responses of *Chlamydomonas reinhardtii* during the transition from P-deficient to P-sufficient growth (the P-overplus response): The roles of the vacuolar transport chaperones and polyphosphate synthesis.** *Journal of phycology*  
Plouviez, M., Fernandez, E., Grossman, A. R., Sanz-Luque, E., Sells, M., Wheeler, D., Guieysse, B.  
2021
- **Interplay of four auxiliary factors is required for the assembly of photosystem I reaction center subcomplex.** *The Plant journal : for cell and molecular biology*  
Nellaepalli, S., Kim, R. G., Grossman, A. R., Takahashi, Y.  
2021
- **moving toward more model algae.** *Journal of phycology*  
Grossman, A.  
2021; 57 (1): 51–53
- **A phytophotonic approach to enhanced photosynthesis** *ENERGY & ENVIRONMENTAL SCIENCE*  
Kunz, L. Y., Redekop, P., Ort, D. R., Grossman, A. R., Cargnello, M., Majumdar, A.  
2020; 13 (12): 4794–4807
- **Phylogenetic analysis of cell-cycle regulatory proteins within the Symbiodiniaceae.** *Scientific reports*  
Gorman, L. M., Wilkinson, S. P., Kitchen, S. A., Oakley, C. A., Grossman, A. R., Weis, V. M., Davy, S. K.  
2020; 10 (1): 20473
- **Transcriptome Reprogramming of Symbiodiniaceae *Breviolum minutum* in Response to Casein Amino Acids Supplementation** *FRONTIERS IN PHYSIOLOGY*  
Kirk, A. L., Clowe, S., Lin, F., Grossman, A. R., Xiang, T.  
2020; 11
- **Impact of menthol on growth and photosynthetic function of *Breviolum minutum* (Dinoflagellata, Dinophyceae, Symbiodiniaceae) and interactions with its *Aiptasia* host.** *Journal of phycology*  
Clowe, S., Renicke, C., Pringle, J. R., Grossman, A. R.  
2020
- **Metabolite pools of the reef building coral *Montipora capitata* are unaffected by Symbiodiniaceae community composition** *CORAL REEFS*  
Matthews, J. L., Cunning, R., Ritson-Williams, R., Oakley, C. A., Lutz, A., Roessner, U., Grossman, A. R., Weis, V. M., Gates, R. D., Davy, S. K.  
2020
- **Sub-cellular imaging shows reduced photosynthetic carbon and increased nitrogen assimilation by the non-native endosymbiont *Durusdinium trenchii* in the model cnidarian *Aiptasia*.** *Environmental microbiology*  
Sproles, A. E., Oakley, C. A., Krueger, T., Grossman, A. R., Weis, V. M., Meibom, A., Davy, S. K.  
2020
- ***Paulinella*, a model for understanding plastid primary endosymbiosis.** *Journal of phycology*  
Gabr, A., Grossman, A. R., Bhattacharya, D.  
2020
- **Symbiont population control by host-symbiont metabolic interaction in Symbiodiniaceae-cnidarian associations.** *Nature communications*  
Xiang, T. n., Lehnert, E. n., Jinkerson, R. E., Clowe, S. n., Kim, R. G., DeNofrio, J. C., Pringle, J. R., Grossman, A. R.  
2020; 11 (1): 108
- **Polyphosphate: A Multifunctional Metabolite in Cyanobacteria and Algae.** *Frontiers in plant science*  
Sanz-Luque, E., Bhaya, D., Grossman, A. R.  
2020; 11: 938
- **Photo-movement in the sea anemone *Aiptasia* influenced by light quality and symbiotic association** *CORAL REEFS*  
Foo, S. A., Liddell, L., Grossman, A., Caldeira, K.  
2019
- **Towards sustainable microalgal biomass processing: anaerobic induction of autolytic cell-wall self-ingestion in lipid-rich *Nannochloropsis* slurries** *GREEN CHEMISTRY*

- Halim, R., Hill, D. R. A., Hanssen, E., Webley, P. A., Blackburn, S., Grossman, A. R., Posten, C., Martin, G. J. O.  
2019; 21 (11): 2967–82
- **Proteomics quantifies protein expression changes in a model cnidarian colonised by a thermally tolerant but suboptimal symbiont.** *The ISME journal*  
Sproles, A. E., Oakley, C. A., Matthews, J. L., Peng, L., Owen, J. G., Grossman, A. R., Weis, V. M., Davy, S. K.  
2019
  - **Alternative outlets for sustaining photosynthetic electron transport during dark-to-light transitions.** *Proceedings of the National Academy of Sciences of the United States of America*  
Saroussi, S., Karns, D. A., Thomas, D. C., Blossies, C., Fiehn, O., Posewitz, M. C., Grossman, A. R.  
2019
  - **Building the GreenCut2 suite of proteins to unmask photosynthetic function and regulation.** *Microbiology (Reading, England)*  
Grossman, A., Sanz-Luque, E., Yi, H., Yang, W.  
2019
  - **A genome-wide algal mutant library and functional screen identifies genes required for eukaryotic photosynthesis** *NATURE GENETICS*  
Li, X., Patena, W., Fauser, F., Jinkerson, R. E., Saroussi, S., Meyer, M. T., Ivanova, N., Robertson, J. M., Yue, R., Zhang, R., Vilarrasa-Blasi, J., Wittkopp, T. M., Ramundo, et al  
2019; 51 (4): 627–+
  - **A genome-wide algal mutant library and functional screen identifies genes required for eukaryotic photosynthesis.** *Nature genetics*  
Li, X., Patena, W., Fauser, F., Jinkerson, R. E., Saroussi, S., Meyer, M. T., Ivanova, N., Robertson, J. M., Yue, R., Zhang, R., Vilarrasa-Blasi, J., Wittkopp, T. M., Ramundo, et al  
2019
  - **The mitochondrial alternative oxidase from *Chlamydomonas reinhardtii* enables survival in high light** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Kaye, Y., Huang, W., Clowez, S., Saroussi, S., Idoine, A., Sanz-Luque, E., Grossman, A. R.  
2019; 294 (4): 1380–95
  - **Partner switching and metabolic flux in a model cnidarian-dinoflagellate symbiosis.** *Proceedings. Biological sciences*  
Matthews, J. L., Oakley, C. A., Lutz, A., Hillyer, K. E., Roessner, U., Grossman, A. R., Weis, V. M., Davy, S. K.  
2018; 285 (1892)
  - **From molecular manipulation of domesticated *Chlamydomonas reinhardtii* to survival in nature.** *eLife*  
Sasso, S., Stibor, H., Mittag, M., Grossman, A. R.  
2018; 7
  - **A giant type I polyketide synthase participates in zygospore maturation in *Chlamydomonas reinhardtii*** *PLANT JOURNAL*  
Heimerl, N., Hommel, E., Westermann, M., Meichsner, D., Lohr, M., Hertweck, C., Grossman, A. R., Mittag, M., Sasso, S.  
2018; 95 (2): 268–81
  - **Phylogenetic characterization of transporter proteins in the cnidarian-dinoflagellate symbiosis** *MOLECULAR PHYLOGENETICS AND EVOLUTION*  
Sproles, A. E., Kirk, N. L., Kitchen, S. A., Oakley, C. A., Grossman, A. R., Weis, V. M., Davy, S. K.  
2018; 120: 307–20
  - **Glucose-Induced Trophic Shift in an Endosymbiont Dinoflagellate with Physiological and Molecular Consequences** *PLANT PHYSIOLOGY*  
Xiang, T., Jinkerson, R. E., Clowez, S., Tran, C., Krediet, C. J., Onishi, M., Cleves, P. A., Pringle, J. R., Grossman, A. R.  
2018; 176 (2): 1793–1807
  - **GreenCut protein CPLD49 of *Chlamydomonas reinhardtii* associates with thylakoid membranes and is required for cytochrome b6f complex accumulation.** *The Plant journal : for cell and molecular biology*  
Wittkopp, T. M., Saroussi, S. n., Yang, W. n., Johnson, X. n., Kim, R. G., Heinrickel, M. L., Russell, J. J., Phuthong, W. n., Dent, R. M., Broeckling, C. D., Peers, G. n., Lohr, M. n., Wollman, et al  
2018
  - **Prolonged and highly efficient intracellular extraction of photosynthetic electrons from single algal cells by optimized nanoelectrode insertion** *NANO RESEARCH*

- Hong, H., Kim, Y., Han, M., Yoo, G., Song, H., Chae, Y., Pyun, J., Grossman, A. R., Ryu, W.  
2018; 11 (1): 397–409
- **Optimal nutrient exchange and immune responses operate in partner specificity in the cnidarian-dinoflagellate symbiosis (vol 114, pg 13194, 2017) PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA**  
Matthews, J. L., Crowder, C., Oakley, C. A., Lutz, A., Roessner, U., Meyer, E., Grossman, A. R., Weis, V. M., Davy, S. K.  
2017; 114 (51): E11058
  - **Optimal nutrient exchange and immune responses operate in partner specificity in the cnidarian-dinoflagellate symbiosis PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA**  
Matthews, J. L., Crowder, C. M., Oakley, C. A., Lutz, A., Roessner, U., Meyer, E., Grossman, A. R., Weis, V. M., Davy, S. K.  
2017; 114 (50): 13194–99
  - **Flocculation of Chlamydomonas reinhardtii with Different Phenotypic Traits by Metal Cations and High pH FRONTIERS IN PLANT SCIENCE**  
Fan, J., Zheng, L., Bai, Y., Saroussi, S., Grossman, A. R.  
2017; 8
  - **Biotic interactions as drivers of algal origin and evolution NEW PHYTOLOGIST**  
Brodie, J., Ball, S. G., Bouget, F., Chan, C., De Clerck, O., Cock, J., Gachon, C., Grossman, A. R., Mock, T., Raven, J. A., Saha, M., Smith, A. G., Vardi, et al  
2017; 216 (3): 670–81
  - **Bilin-Dependent Photoacclimation in Chlamydomonas reinhardtii PLANT CELL**  
Wittkopp, T. M., Schmollinger, S., Saroussi, S., Hu, W., Zhang, W., Fan, Q., Gallaher, S. D., Leonard, M. T., Soubeyrand, E., Basset, G. J., Merchant, S. S., Grossman, A. R., Duanmu, et al  
2017; 29 (11): 2711–26
  - **Nutrient scavenging and energy management: acclimation responses in nitrogen and sulfur deprived Chlamydomonas. Current opinion in plant biology**  
Saroussi, S., Sanz-Luque, E., Kim, R. G., Grossman, A. R.  
2017; 39: 114-122
  - **Insights into the red algae and eukaryotic evolution from the genome of Porphyra umbilicalis (Bangiophyceae, Rhodophyta) PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA**  
Brawley, S. H., Blouin, N. A., Ficko-Blean, E., Wheeler, G. L., Lohr, M., Goodson, H. V., Jenkins, J. W., Blaby-Haas, C. E., Helliwell, K. E., Chan, C., Marriage, T. N., Bhattacharya, D., Klein, et al  
2017; 114 (31): E6361–E6370
  - **Thermal Shock Induces Host Proteostasis Disruption and Endoplasmic Reticulum Stress in the Model Symbiotic Cnidarian Aiptasia JOURNAL OF PROTEOME RESEARCH**  
Oakley, C. A., Durand, E., Wilkinson, S. P., Peng, L., Weis, V. M., Grossman, A. R., Davy, S. K.  
2017; 16 (6): 2121–34
  - **Pyrenoid loss in Chlamydomonas reinhardtii causes limitations in CO2 supply, but not thylakoid operating efficiency. Journal of experimental botany**  
Caspari, O. D., Meyer, M. T., Tolleter, D., Wittkopp, T. M., Cunniffe, N. J., Lawson, T., Grossman, A. R., Griffiths, H.  
2017; 68 (14): 3903-3913
  - **A robust protocol for efficient generation, and genomic characterization of insertional mutants of Chlamydomonas reinhardtii PLANT METHODS**  
Pollock, S. V., Mukherjee, B., Bajsa-Hirschel, J., Machingura, M. C., Mukherjee, A., Grossman, A. R., Moroney, J. V.  
2017; 13
  - **Impact of light intensity and quality on chromatophore and nuclear gene expression in Paulinella chromatophora, an amoeba with nascent photosynthetic organelles PLANT JOURNAL**  
Zhang, R., Nowack, E. C., Price, D. C., Bhattacharya, D., Grossman, A. R.  
2017; 90 (2): 221-234
  - **Development of a toolbox to dissect host-endosymbiont interactions and protein trafficking in the trypanosomatid Angomonas deanei BMC EVOLUTIONARY BIOLOGY**  
Morales, J., Kokkori, S., Weidauer, D., Chapman, J., Goltsman, E., Rokhsar, D., Grossman, A. R., Nowack, E. C.

2016; 16

- **Patterned Nanowire Electrode Array for Direct Extraction of Photosynthetic Electrons from Multiple Living Algal Cells** *ADVANCED FUNCTIONAL MATERIALS*  
Kim, L. H., Kim, Y. J., Hong, H., Yang, D., Han, M., Yoo, G., Song, H. W., Chae, Y., Pyun, J., Grossman, A. R., Ryu, W.  
2016; 26 (42): 7679-7689
- **Gene transfers from diverse bacteria compensate for reductive genome evolution in the chromatophore of *Paulinella chromatophora*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Nowack, E. C., Price, D. C., Bhattacharya, D., Singer, A., Melkonian, M., Grossman, A. R.  
2016; 113 (43): 12214-12219
- **Symbiosis induces widespread changes in the proteome of the model cnidarian *Aiptasia*** *CELLULAR MICROBIOLOGY*  
Oakley, C. A., Ameismeier, M. F., Peng, L., Weis, V. M., Grossman, A. R., Davy, S. K.  
2016; 18 (7): 1009-1023
- **Relative Contributions of Various Cellular Mechanisms to Loss of Algae during Cnidarian Bleaching** *PLOS ONE*  
Bieri, T., Onishi, M., Xiang, T., Grossman, A. R., Pringle, J. R.  
2016; 11 (4)
- **The Type II NADPH Dehydrogenase Facilitates Cyclic Electron Flow, Energy-Dependent Quenching, and Chlororespiratory Metabolism during Acclimation of *Chlamydomonas reinhardtii* to Nitrogen Deprivation** *PLANT PHYSIOLOGY*  
Saroussi, S. I., Wittkopp, T. M., Grossman, A. R.  
2016; 170 (4): 1975-1988
- **Genome Analysis of Planctomycetes Inhabiting Blades of the Red Alga *Porphyra umbilicalis*** *PLOS ONE*  
Kim, J. W., Brawley, S. H., Prochnik, S., Chovatia, M., Grimwood, J., Jenkins, J., LaButti, K., Mavromatis, K., Nolan, M., Zane, M., Schmutz, J., Stiller, J. W., Grossman, et al  
2016; 11 (3)
- **Tetratricopeptide repeat protein protects photosystem I from oxidative disruption during assembly** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Heinzel, M., Kim, R. G., Wittkopp, T. M., Yang, W., Walters, K. A., Herbert, S. K., Grossman, A. R.  
2016; 113 (10): 2774-2779
- **Gordon research conference on the dynamics and regulation of photosynthesis: from the origin of bio-catalysis to innovative solar conversion.** *Photosynthesis research*  
Govindjee, Grossman, A. R., Bhaya, D.  
2016; 127 (3): 379-389
- **Critical role of *Chlamydomonas reinhardtii* ferredoxin-5 in maintaining membrane structure and dark metabolism.** *Proceedings of the National Academy of Sciences of the United States of America*  
Yang, W., Wittkopp, T. M., Li, X., Warakanont, J., Dubini, A., Catalanotti, C., Kim, R. G., Nowack, E. C., Mackinder, L. C., Aksoy, M., Page, M. D., D'Adamo, S., Saroussi, et al  
2015; 112 (48): 14978-14983
- **The Use of Contact Mode Atomic Force Microscopy in Aqueous Medium for Structural Analysis of Spinach Photosynthetic Complexes.** *Plant physiology*  
Phuthong, W., Huang, Z., Wittkopp, T. M., Sznee, K., Heinzel, M. L., Dekker, J. P., Frese, R. N., Prinz, F. B., Grossman, A. R.  
2015; 169 (2): 1318-1332
- **Algae after dark: mechanisms to cope with anoxic/hypoxic conditions** *PLANT JOURNAL*  
Yang, W., Catalanotti, C., Wittkopp, T. M., Posewitz, M. C., Grossman, A. R.  
2015; 82 (3): 481-503
- **Symbiodinium transcriptome and global responses of cells to immediate changes in light intensity when grown under autotrophic or mixotrophic conditions** *PLANT JOURNAL*  
Xiang, T., Nelson, W., Rodriguez, J., Tolleter, D., Grossman, A. R.  
2015; 82 (1): 67-80
- **Profiling *Chlamydomonas* Metabolism under Dark, Anoxic H<sub>2</sub>-Producing Conditions Using a Combined Proteomic, Transcriptomic, and Metabolomic Approach** *JOURNAL OF PROTEOME RESEARCH*

- Subramanian, V., Dubini, A., Astling, D. P., Laurens, L. M., Old, W. M., Grossman, A. R., Posewitz, M. C., Seibert, M.  
2014; 13 (12): 5431-5451
- **Alternative Acetate Production Pathways in *Chlamydomonas reinhardtii* during Dark Anoxia and the Dominant Role of Chloroplasts in Fermentative Acetate Production.** *Plant cell*  
Yang, W., Catalanotti, C., D'Adamo, S., Wittkopp, T. M., Ingram-Smith, C. J., Mackinder, L., Miller, T. E., Heuberger, A. L., Peers, G., Smith, K. S., Jonikas, M. C., Grossman, A. R., Posewitz, et al  
2014; 26 (11): 4499-4518
  - **Critical Function of a *Chlamydomonas reinhardtii* Putative Polyphosphate Polymerase Subunit during Nutrient Deprivation** *PLANT CELL*  
Aksoy, M., Pootakham, W., Grossman, A. R.  
2014; 26 (10): 4214-4229
  - **The *Chlamydomonas* genome project: a decade on** *TRENDS IN PLANT SCIENCE*  
Blaby, I. K., Blaby-Haas, C. E., Tourasse, N., Hom, E. F., Lopez, D., Aksoy, M., Grossman, A., Umen, J., Dutcher, S., Porter, M., King, S., Witman, G. B., Stanke, et al  
2014; 19 (10): 672-680
  - **16S AND 23S PLASTID RDNA PHYLOGENIES OF PROTOTHECA SPECIES AND THEIR AUXANOGRAPHIC PHENOTYPES** *JOURNAL OF PHYCOLOGY*  
Ewing, A., Brubaker, S., Somanchi, A., Yu, E., Rudenko, G., Reyes, N., Espina, K., Grossman, A., Franklin, S.  
2014; 50 (4): 765-769
  - **Proton Gradient Regulation 5-Mediated Cyclic Electron Flow under ATP- or Redox-Limited Conditions: A Study of Delta ATPase pgr5 and Delta rbcL pgr5 Mutants in the Green Alga *Chlamydomonas reinhardtii*** *PLANT PHYSIOLOGY*  
Johnson, X., Steinbeck, J., Dent, R. M., Takahashi, H., Richaud, P., Ozawa, S., Houille-Vernes, L., Petroustos, D., Rappaport, F., Grossman, A. R., Niyogi, K. K., Hippler, M., Alric, et al  
2014; 165 (1): 438-452
  - **Proton gradient regulation 5-mediated cyclic electron flow under ATP- or redox-limited conditions: a study of ?ATPase pgr5 and ?rbcL pgr5 mutants in the green alga *Chlamydomonas reinhardtii*.** *Plant physiology*  
Johnson, X., Steinbeck, J., Dent, R. M., Takahashi, H., Richaud, P., Ozawa, S., Houille-Vernes, L., Petroustos, D., Rappaport, F., Grossman, A. R., Niyogi, K. K., Hippler, M., Alric, et al  
2014; 165 (1): 438-452
  - **Nitrogen-Sparing Mechanisms in *Chlamydomonas* Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism** *PLANT CELL*  
Schmollinger, S., Muehlhaus, T., Boyle, N. R., Blaby, I. K., Casero, D., Mettler, T., Moseley, J. L., Kropat, J., Sommer, F., Strenkert, D., Hemme, D., Pellegrini, M., Grossman, et al  
2014; 26 (4): 1410-1435
  - **The GreenCut: re-evaluation of physiological role of previously studied proteins and potential novel protein functions.** *Photosynthesis research*  
Heinzel, M. L., Grossman, A. R.  
2013; 116 (2-3): 427-436
  - **The metabolic status drives acclimation of iron deficiency responses in *Chlamydomonas reinhardtii* as revealed by proteomics based hierarchical clustering and reverse genetics.** *Molecular & cellular proteomics*  
Höhner, R., Barth, J., Magneschi, L., Jaeger, D., Niehues, A., Bald, T., Grossman, A., Fufezan, C., Hippler, M.  
2013; 12 (10): 2774-2790
  - **The Metabolic Status Drives Acclimation of Iron Deficiency Responses in *Chlamydomonas reinhardtii* as Revealed by Proteomics Based Hierarchical Clustering and Reverse Genetics** *MOLECULAR & CELLULAR PROTEOMICS*  
Hoehner, R., Barth, J., Magneschi, L., Jaeger, D., Niehues, A., Bald, T., Grossman, A., Fufezan, C., Hippler, M.  
2013; 12 (10): 2774-2790
  - **Effect of Temperature on Photosynthesis and Growth in Marine *Synechococcus* spp.** *PLANT PHYSIOLOGY*  
Mackey, K. R., Paytan, A., Caldeira, K., Grossman, A. R., Moran, D., McIlvin, M., Saito, M. A.  
2013; 163 (2): 815-829
  - **Coral bleaching independent of photosynthetic activity.** *Current biology*  
Tolleter, D., Seneca, F. O., DeNofrio, J. C., Krediet, C. J., Palumbi, S. R., Pringle, J. R., Grossman, A. R.

2013; 23 (18): 1782-1786

- **Role of Polyphosphate in Thermophilic *Synechococcus* sp from Microbial Mats** *JOURNAL OF BACTERIOLOGY*  
Gomez-Garcia, M. R., Fazeli, F., Grote, A., Grossman, A. R., Bhaya, D.  
2013; 195 (15): 3309-3319
- **Isolation of clonal axenic strains of the symbiotic dinoflagellate *Symbiodinium* and their growth and host specificity** *JOURNAL OF PHYCOLOGY*  
Xiang, T., Hambleton, E. A., DeNofrio, J. C., Pringle, J. R., Grossman, A. R.  
2013; 49 (3): 447-458
- **Isolation of clonal axenic strains of the symbiotic dinoflagellate *Symbiodinium* and their growth and host specificity(1).** *Journal of phycology*  
Xiang, T., Hambleton, E. A., DeNofrio, J. C., Pringle, J. R., Grossman, A. R.  
2013; 49 (3): 447-58
- **Tiered Regulation of Sulfur Deprivation Responses in *Chlamydomonas reinhardtii* and Identification of an Associated Regulatory Factor** *PLANT PHYSIOLOGY*  
Aksoy, M., Pootakham, W., Pollock, S. V., Moseley, J. L., Gonzalez-Ballester, D., Grossman, A. R.  
2013; 162 (1): 195-211
- **Diversity and Abundance of the Bacterial Community of the Red Macroalga *Porphyra umbilicalis*: Did Bacterial Farmers Produce Macroalgae?** *PLOS ONE*  
Miranda, L. N., Hutchison, K., Grossman, A. R., Brawley, S. H.  
2013; 8 (3)
- **Novel Thylakoid Membrane GreenCut Protein CPLD38 Impacts Accumulation of the Cytochrome b(6)f Complex and Associated Regulatory Processes** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Heinickel, M. L., Alric, J., Wittkopp, T., Yang, W., Catalanotti, C., Dent, R., Niyogi, K. K., Wollman, F., Grossman, A. R.  
2013; 288 (10): 7024-7036
- **Retrograde bilin signaling enables *Chlamydomonas* greening and phototrophic survival** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Duanmu, D., Casero, D., Dent, R. M., Gallaher, S., Yang, W., Rockwell, N. C., Martin, S. S., Pellegrini, M., Niyogi, K. K., Merchant, S. S., Grossman, A. R., Lagarias, J. C.  
2013; 110 (9): 3621-3626
- **Fermentation metabolism and its evolution in algae.** *Frontiers in plant science*  
Catalanotti, C., Yang, W., Posewitz, M. C., Grossman, A. R.  
2013; 4: 150-?
- ***Porphyra* (Bangiophyceae) Transcriptomes Provide Insights Into Red Algal Development And Metabolism** *JOURNAL OF PHYCOLOGY*  
Chan, C. X., Blouin, N. A., Zhuang, Y., Zaeuner, S., Prochnik, S. E., Lindquist, E., Lin, S., Benning, C., Lohr, M., Yarish, C., Gantt, E., Grossman, A. R., Lu, et al  
2012; 48 (6): 1328-1342
- **A Flavin Binding Cryptochrome Photoreceptor Responds to Both Blue and Red Light in *Chlamydomonas reinhardtii*** *PLANT CELL*  
Beel, B., Prager, K., Spexard, M., Sasso, S., Weiss, D., Mueller, N., Heinickel, M., Dewez, D., Ikoma, D., Grossman, A. R., Kottke, T., Mittag, M.  
2012; 24 (7): 2992-3008
- **Three Acyltransferases and Nitrogen-responsive Regulator Are Implicated in Nitrogen Starvation-induced Triacylglycerol Accumulation in *Chlamydomonas*** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Boyle, N. R., Page, M. D., Liu, B., Blaby, I. K., Casero, D., Kropat, J., Cokus, S. J., Hong-Hermesdorf, A., Shaw, J., Karpowicz, S. J., Gallaher, S. D., Johnson, S., Benning, et al  
2012; 287 (19): 15811-15825
- **Trafficking of protein into the recently established photosynthetic organelles of *Paulinella chromatophora*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Nowack, E. C., Grossman, A. R.  
2012; 109 (14): 5340-5345

- **Analysis of Porphyra Membrane Transporters Demonstrates Gene Transfer among Photosynthetic Eukaryotes and Numerous Sodium-Coupled Transport Systems** *PLANT PHYSIOLOGY*  
Chan, C. X., Zaeuner, S., Wheeler, G., Grossman, A. R., Prochnik, S. E., Blouin, N. A., Zhuang, Y., Benning, C., Berg, G. M., Yarish, C., Eriksen, R. L., Klein, A. S., Lin, et al  
2012; 158 (4): 2001-2012
- **A Mutant in the ADH1 Gene of Chlamydomonas reinhardtii Elicits Metabolic Restructuring during Anaerobiosis** *PLANT PHYSIOLOGY*  
Magneschi, L., Catalanotti, C., Subramanian, V., Dubini, A., Yang, W., Mus, F., Posewitz, M. C., Seibert, M., Perata, P., Grossman, A. R.  
2012; 158 (3): 1293-1305
- **Altered Fermentative Metabolism in Chlamydomonas reinhardtii Mutants Lacking Pyruvate Formate Lyase and Both Pyruvate Formate Lyase and Alcohol Dehydrogenase** *PLANT CELL*  
Catalanotti, C., Dubini, A., Subramanian, V., Yang, W., Magneschi, L., Mus, F., Seibert, M., Posewitz, M. C., Grossman, A. R.  
2012; 24 (2): 692-707
- **Genetic disruption of both Chlamydomonas reinhardtii [FeFe]-hydrogenases: Insight into the role of HYDA2 in H<sub>2</sub> production** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
Meuser, J. E., D'Adamo, S., Jinkerson, R. E., Mus, F., Yang, W., Ghirardi, M. L., Seibert, M., Grossman, A. R., Posewitz, M. C.  
2012; 417 (2): 704-709
- **Homomeric Interaction of the STAS Domain in Sultr1;2** *8th International Workshop on Sulfur Metabolism in Higher Plants*  
Shibagaki, N., Grossman, A. R.  
SPRINGER.2012: 109-114
- **In vivo O<sub>2</sub> measurement inside single photosynthetic cells** *BIOTECHNOLOGY LETTERS*  
Bai, S., Ryu, W., Fasching, R. J., Grossman, A. R., Prinz, F. B.  
2011; 33 (8): 1675-1681
- **Community ecology of hot spring cyanobacterial mats: predominant populations and their functional potential** *ISME JOURNAL*  
Klatt, C. G., Wood, J. M., Rusch, D. B., Bateson, M. M., Hamamura, N., Heidelberg, J. F., Grossman, A. R., Bhaya, D., Cohan, F. M., Kuhl, M., Bryant, D. A., Ward, D. M.  
2011; 5 (8): 1262-1278
- **Reverse genetics in Chlamydomonas: a platform for isolating insertional mutants** *PLANT METHODS*  
Gonzalez-Ballester, D., Pootakham, W., Mus, F., Yang, W., Catalanotti, C., Magneschi, L., de Montaigu, A., Higuera, J. J., Prior, M., Galvan, A., Fernandez, E., Grossman, A. R.  
2011; 7
- **The GreenCut2 Resource, a Phylogenomically Derived Inventory of Proteins Specific to the Plant Lineage** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Karpowicz, S. J., Prochnik, S. E., Grossman, A. R., Merchant, S. S.  
2011; 286 (24): 21427-21439
- **In situ dynamics of O<sub>2</sub>, pH and cyanobacterial transcripts associated with CCM, photosynthesis and detoxification of ROS** *ISME JOURNAL*  
Jensen, S. I., Steunou, A., Bhaya, D., Kuehl, M., Grossman, A. R.  
2011; 5 (2): 317-328
- **Alternative pathways for phosphonate metabolism in thermophilic cyanobacteria from microbial mats** *ISME JOURNAL*  
Gomez-Garcia, M. R., Davison, M., Blain-Hartnug, M., Grossman, A. R., Bhaya, D.  
2011; 5 (1): 141-149
- **Endosymbiotic Gene Transfer and Transcriptional Regulation of Transferred Genes in Paulinella chromatophora** *MOLECULAR BIOLOGY AND EVOLUTION*  
Nowack, E. C., Vogel, H., Groth, M., Grossman, A. R., Melkonian, M., Gloeckner, G.  
2011; 28 (1): 407-422
- **Porphyra: a marine crop shaped by stress** *TRENDS IN PLANT SCIENCE*  
Blouin, N. A., Brodie, J. A., Grossman, A. C., Xu, P., Brawley, S. H.  
2011; 16 (1): 29-37

- **Responses of psbA, hli and ptox genes to changes in irradiance in marine Synechococcus and Prochlorococcus** *AQUATIC MICROBIAL ECOLOGY*  
Berg, G. M., Shrager, J., van Dijken, G., Mills, M. M., Arrigo, K. R., Grossman, A. R.  
2011; 65 (1): 1-14
- **Multiple facets of anoxic metabolism and hydrogen production in the unicellular green alga Chlamydomonas reinhardtii** *NEW PHYTOLOGIST*  
Grossman, A. R., Catalanotti, C., Yang, W., Dubini, A., Magneschi, L., Subramanian, V., Posewitz, M. C., Seibert, M.  
2011; 190 (2): 279-288
- **Phylogenomic analysis of the Chlamydomonas genome un.masks proteins potentially involved in photosynthetic function and regulation** *PHOTOSYNTHESIS RESEARCH*  
Grossman, A. R., Karpowicz, S. J., Heinnickel, M., Dewez, D., Hamel, B., Dent, R., Niyogi, K. K., Johnson, X., Alric, J., Wollman, F., Li, H., Merchant, S. S.  
2010; 106 (1-2): 3-17
- **Binding of Cysteine Synthase to the STAS Domain of Sulfate Transporter and Its Regulatory Consequences** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Shibagaki, N., Grossman, A. R.  
2010; 285 (32): 25094-25102
- **Identification and Regulation of Plasma Membrane Sulfate Transporters in Chlamydomonas** *PLANT PHYSIOLOGY*  
Pootakham, W., Gonzalez-Ballester, D., Grossman, A. R.  
2010; 153 (4): 1653-1668
- **A PERSPECTIVE ON PHOTOSYNTHESIS IN THE OLIGOTROPHIC OCEANS: HYPOTHESES CONCERNING ALTERNATE ROUTES OF ELECTRON FLOW** *JOURNAL OF PHYCOLOGY*  
Grossman, A. R., Mackey, K. R., Bailey, S.  
2010; 46 (4): 629-634
- **RNA-Seq Analysis of Sulfur-Deprived Chlamydomonas Cells Reveals Aspects of Acclimation Critical for Cell Survival** *PLANT CELL*  
Gonzalez-Ballester, D., Casero, D., Cokus, S., Pellegrini, M., Merchant, S. S., Grossman, A. R.  
2010; 22 (6): 2058-2084
- **Direct Extraction of Photosynthetic Electrons from Single Algal Cells by Nanoprobing System** *NANO LETTERS*  
Ryu, W., Bai, S., Park, J. S., Huang, Z., Moseley, J., Fabian, T., Fasching, R. J., Grossman, A. R., Prinz, F. B.  
2010; 10 (4): 1137-1143
- **An ancient light-harvesting protein is critical for the regulation of algal photosynthesis** *NATURE*  
Peers, G., Truong, T. B., Ostendorf, E., Busch, A., Elrad, D., Grossman, A. R., Hippler, M., Niyogi, K. K.  
2009; 462 (7272): 518-U215
- **Picophytoplankton responses to changing nutrient and light regimes during a bloom** *MARINE BIOLOGY*  
Mackey, K. R., Rivlin, T., Grossman, A. R., Post, A. F., Paytan, A.  
2009; 156 (8): 1531-1546
- **Flexibility in Anaerobic Metabolism as Revealed in a Mutant of Chlamydomonas reinhardtii Lacking Hydrogenase Activity** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Dubini, A., Mus, F., Seibert, M., Grossman, A. R., Posewitz, M. C.  
2009; 284 (11): 7201-7213
- **Genetic Interactions Between Regulators of Chlamydomonas Phosphorus and Sulfur Deprivation Responses** *GENETICS*  
Moseley, J. L., Gonzalez-Ballester, D., Pootakham, W., Bailey, S., Grossman, A. R.  
2009; 181 (3): 889-905
- **Ancient Recruitment by Chromists of Green Algal Genes Encoding Enzymes for Carotenoid Biosynthesis** *MOLECULAR BIOLOGY AND EVOLUTION*  
Frommolt, R., Werner, S., Paulsen, H., Goss, R., Wilhelm, C., Zauner, S., Maier, U. G., Grossman, A. R., Bhattacharya, D., Lohr, M.  
2008; 25 (12): 2653-2667

- **Phosphorus Deprivation Responses and Phosphonate Utilization in a Thermophilic Synechococcus sp from Microbial Mats** *JOURNAL OF BACTERIOLOGY*  
Adams, M. M., Gomez-Garcia, M. R., Grossman, A. R., Bhaya, D.  
2008; 190 (24): 8171-8184
- **Photoprotection in Cyanobacteria: Regulation of Light Harvesting** *PHOTOCHEMISTRY AND PHOTOBIOLOGY*  
Bailey, S., Grossman, A.  
2008; 84 (6): 1410-1420
- **Understanding nitrogen limitation in Aureococcus anophagefferens (Pelagophyceae) through cDNA and qRT-PCR analysis** *JOURNAL OF PHYCOLOGY*  
Berg, G. M., Shrager, J., Gloeckner, G., Arrigo, K. R., Grossman, A. R.  
2008; 44 (5): 1235-1249
- **UNDERSTANDING NITROGEN LIMITATION IN AUREOCOCCUS ANOPHAGEFFERENS (PELAGOPHYCEAE) THROUGH cDNA AND qRT-PCR ANALYSIS(1).** *Journal of phycology*  
Berg, G. M., Shrager, J., Glöckner, G., Arrigo, K. R., Grossman, A. R.  
2008; 44 (5): 1235-1249
- **Open micro-fluidic system for atomic force microscopy-guided in situ electrochemical probing of a single cell** *LAB ON A CHIP*  
Ryu, W., Huang, Z., Park, J. S., Moseley, J., Grossman, A. R., Fasching, R. J., Prinz, F. B.  
2008; 8 (9): 1460-1467
- **An original adaptation of photosynthesis in the marine green alga Ostreococcus** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Cardol, P., Bailleul, B., Rappaport, F., Derelle, E., Beal, D., Breyton, C., Bailey, S., Wollman, F. A., Grossman, A., Moreau, H., Finazzi, G.  
2008; 105 (22): 7881-7886
- **The central role of a SNRK2 kinase in sulfur deprivation responses** *PLANT PHYSIOLOGY*  
Gonzalez-Ballester, D., Pollock, S. V., Pootakham, W., Grossman, A. R.  
2008; 147 (1): 216-227
- **A photosynthetic strategy for coping in a high-light, low-nutrient environment** *LIMNOLOGY AND OCEANOGRAPHY*  
Mackey, K. R., Paytan, A., Grossman, A. R., Bailey, S.  
2008; 53 (3): 900-913
- **Regulation of nif gene expression and the energetics of N-2 fixation over the diel cycle in a hot spring microbial mat** *ISME JOURNAL*  
Steunou, A., Jensen, S. I., Brecht, E., Becraft, E. D., Bateson, M. M., Kilian, O., Bhaya, D., Ward, D. M., Peters, J. W., Grossman, A. R., Kuhl, M.  
2008; 2 (4): 364-378
- **Alternative photosynthetic electron flow to oxygen in marine Synechococcus** *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS*  
Bailey, S., Melis, A., Mackey, K. R., Cardol, P., Finazzi, G., van Dijken, G., Berg, G. M., Arrigo, K., Shrager, J., Grossman, A.  
2008; 1777 (3): 269-276
- **Genomics, environmental genomics and the issue of microbial species** *HEREDITY*  
Ward, D. M., Cohan, F. M., Bhaya, D., Heidelberg, J. F., Kuhl, M., Grossman, A.  
2008; 100 (2): 207-219
- **A novel two domain-fusion protein in cyanobacteria with similarity to the CAB/ELIP/HLIP superfamily: Evolutionary implications and regulation** *MOLECULAR PLANT*  
Kilian, O., Steunou, A. S., Grossman, A. R., Bhaya, D.  
2008; 1 (1): 155-166
- **Reversible oxidation of spinach ferredoxin at surface-modified electrodes** *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*  
Komadina, J., Walch, S., Fasching, R., Grossman, A., Prinz, F. B.  
2008; 155 (10): B1008-B1012
- **Population level functional diversity in a microbial community revealed by comparative genomic and metagenomic analyses** *ISME JOURNAL*  
Bhaya, D., Grossman, A. R., Steunou, A., Khuri, N., Cohan, F. M., Hamamura, N., Melendrez, M. C., Bateson, M. M., Ward, D. M., Heidelberg, J. F.

2007; 1 (8): 703-713

- **The Chlamydomonas genome reveals the evolution of key animal and plant functions** *SCIENCE*  
Merchant, S. S., Prochnik, S. E., Vallon, O., Harris, E. H., Karpowicz, S. J., Witman, G. B., Terry, A., Salamov, A., Fritz-Laylin, L. K., Marechal-Drouard, L., Marshall, W. F., Qu, L., Nelson, et al  
2007; 318 (5848): 245-251
- **Anaerobic acclimation in Chlamydomonas reinhardtii - Anoxic gene expression, hydrogenase induction, and metabolic pathways** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Mus, F., Dubini, A., Seibert, M., Posewitz, M. C., Grossman, A. R.  
2007; 282 (35): 25475-25486
- **Responses of a thermophilic Synechococcus isolate from the microbial mat of octopus spring to light** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Kilian, O., Steunou, A., Fazeli, F., Bailey, S., Bhaya, D., Grossman, A. R.  
2007; 73 (13): 4268-4278
- **Novel metabolism in Chlamydomonas through the lens of genomics** *CURRENT OPINION IN PLANT BIOLOGY*  
Grossman, A. R., Croft, M., Gladyshev, V. N., Merchant, S. S., Posewitz, M. C., Prochnik, S., Spalding, M. H.  
2007; 10 (2): 190-198
- **EST assembly supported by a draft genome sequence: an analysis of the Chlamydomonas reinhardtii transcriptome** *NUCLEIC ACIDS RESEARCH*  
Jain, M., Shrager, J., Harris, E. H., Halbrook, R., Grossman, A. R., Hauser, C., Vallon, O.  
2007; 35 (6): 2074-2083
- **A novel analytical method for in vivo phosphate tracking (vol 580, pg 5885, 2006)** *FEBS LETTERS*  
Gu, H., Lalonde, S., Okumoto, S., Looger, L. L., Scharff-Poulsen, A. M., Grossman, A. R., Kossmann, J., Jakobsen, I., Frommer, W. B.  
2007; 581 (3): 579-579
- **Counting low-copy number proteins in a single cell** *SCIENCE*  
Huang, B., Wu, H., Bhaya, D., Grossman, A., Granier, S., Kobilka, B. K., Zare, R. N.  
2007; 315 (5808): 81-84
- **In the grip of algal genomics** *TRANSGENIC MICROALGAE AS GREEN CELL FACTORIES*  
Grossman, A. R.  
2007; 616: 54-76
- **AFM/EC nano probing of single cells and organelles** *6th IEEE Sensors Conference*  
Fasching, R., Ryu, W., Bai, S., Park, J., Fabian, T., Moseley, J., Grossman, A., Prinz, F.  
IEEE.2007: 699-702
- **A novel analytical method for in vivo phosphate tracking** *FEBS LETTERS*  
Gu, H., Lalonde, S., Okumoto, S., Looger, L. L., Scharff-Poulsen, A. M., Grossman, A. R., Kossmann, J., Jakobsen, I., Frommer, W. B.  
2006; 580 (25): 5885-5893
- **Phototropin involvement in the expression of genes encoding chlorophyll and carotenoid biosynthesis enzymes and LHC apoproteins in Chlamydomonas reinhardtii** *PLANT JOURNAL*  
Im, C., Eberhard, S., Huang, K., Beck, C. F., Grossman, A. R.  
2006; 48 (1): 1-16
- **The role of the STAS domain in the function and biogenesis of a sulfate transporter as probed by random mutagenesis** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Shibagaki, N., Grossman, A. R.  
2006; 281 (32): 22964-22973
- **Examination of diel changes in global transcript accumulation in Synechocystis (cyanobacteria)** *JOURNAL OF PHYCOLOGY*  
Labiosa, R. G., Arrigo, K. R., Tu, C. J., Bhaya, D., Bay, S., Grossman, A. R., Shrager, J.  
2006; 42 (3): 622-636
- **In situ analysis of nitrogen fixation and metabolic switching in unicellular thermophilic cyanobacteria inhabiting hot spring microbial mats** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Steunou, A. S., Bhaya, D., Bateson, M. M., Melendrez, M. C., Ward, D. M., Brecht, E., Peters, J. W., Kuhl, M., Grossman, A. R.  
2006; 103 (7): 2398-2403
- **Generation of an oligonucleotide array for analysis of gene expression in *Chlamydomonas reinhardtii*** *CURRENT GENETICS*  
Eberhard, S., Jain, M., Im, C. S., Pollock, S., Shrager, J., Lin, Y. A., Peek, A. S., Grossman, A. R.  
2006; 49 (2): 106-124
  - **Regeneration of a cell from protoplasm** *JOURNAL OF PHYCOLOGY*  
Grossman, A.  
2006; 42 (1): 1-5
  - **Genome-based approaches to understanding phosphorus deprivation responses and PSR1 control in *Chlamydomonas reinhardtii*** *EUKARYOTIC CELL*  
Moseley, J. L., Chang, C. W., Grossman, A. R.  
2006; 5 (1): 26-44
  - **A hybrid, recursive algorithm for clustering expressed sequence tags in *Chlamydomonas reinhardtii*** *18th International Conference on Pattern Recognition (ICPR 2006)*  
Jain, M., Holz, H., Shrager, J., Vallon, O., Hauser, C., Grossman, A.  
IEEE COMPUTER SOC.2006: 404-407
  - **Insights into the acclimation of *Chlamydomonas reinhardtii* to sulfur deprivation** *PHOTOSYNTHESIS RESEARCH*  
Pollock, S. V., Pootakham, W., Shibagaki, N., Moseley, J. L., Grossman, A. R.  
2005; 86 (3): 475-489
  - **Analyses of CIA5, the master regulator of the carbon-concentrating mechanism in *Chlamydomonas reinhardtii*, and its control of gene expression** *5th International Symposium on Inorganic Carbon Utilization by Aquatic Photosynthetic Organisms*  
Wang, Y., Sun, Z. H., Horken, K. M., Im, C. S., Xiang, Y. B., Grossman, A. R., Weeks, D. P.  
CANADIAN SCIENCE PUBLISHING, NRC RESEARCH PRESS.2005: 765-79
  - **The LPB1 gene is important for acclimation of *Chlamydomonas reinhardtii* to phosphorus and sulfur deprivation** *PLANT PHYSIOLOGY*  
Chang, C. W., Moseley, J. L., Wykoff, D., Grossman, A. R.  
2005; 138 (1): 319-329
  - **Genome-based examination of chlorophyll and carotenoid biosynthesis in *Chlamydomonas reinhardtii*** *PLANT PHYSIOLOGY*  
Lohr, M., Im, C. S., Grossman, A. R.  
2005; 138 (1): 490-515
  - **Paths toward algal genomics** *PLANT PHYSIOLOGY*  
Grossman, A. R.  
2005; 137 (2): 410-427
  - **Approaches using yeast cells to probe the function of STAS domain in SULTR1;2** *6th International Workshop on Plant Sulfur Metabolism*  
Shibagaki, N., Grossman, A. R.  
BACKHUYS PUBLISHERS.2005: 33-35
  - **ApIA, a member of a new class of phycobiliproteins lacking a traditional role in photosynthetic light harvesting** *JOURNAL OF BACTERIOLOGY*  
Montgomery, B. L., Casey, E. S., Grossman, A. R., Kehoe, D. M.  
2004; 186 (21): 7420-7428
  - **Insights into the survival of *Chlamydomonas reinhardtii* during sulfur starvation based on microarray analysis of gene expression** *EUKARYOTIC CELL*  
Zhang, Z. D., Shrager, J., Jain, M., Chang, C. W., Vallon, O., Grossman, A. R.  
2004; 3 (5): 1331-1348
  - **Probing the function of STAS domains of the Arabidopsis sulfate transporters** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Shibagaki, N., Grossman, A. R.  
2004; 279 (29): 30791-30799
  - **Consequences of a deletion in dspA on transcript accumulation in *Synechocystis* sp strain PCC6803** *JOURNAL OF BACTERIOLOGY*

- Tu, C. J., Shrager, J., Burnap, R. L., Postier, B. L., Grossman, A. R.  
2004; 186 (12): 3889-3902
- **Control of photosynthetic and high-light-responsive genes by the histidine kinase DspA: Negative and positive regulation and interactions between signal transduction pathways** *JOURNAL OF BACTERIOLOGY*  
Hsiao, H. Y., He, Q. F., van Waasbergen, L. G., Grossman, A. R.  
2004; 186 (12): 3882-3888
  - **Effects of high light on transcripts of stress-associated genes for the cyanobacteria *Synechocystis* sp PCC 6803 and *Prochlorococcus* MED4 and MIT9313** *8th International Workshop on Opportunistic Protists/International Conference on Anaerobic Protists*  
Mary, I., Tu, C. J., Grossman, A., Vaultot, D.  
SOC GENERAL MICROBIOLOGY.2004: 1271-1281
  - **A genome's-eye view of the light-harvesting polypeptides of *Chlamydomonas reinhardtii*** *CURRENT GENETICS*  
Elrad, D., Grossman, A. R.  
2004; 45 (2): 61-75
  - ***Chlamydomonas reinhardtii* in the landscape of pigments** *ANNUAL REVIEW OF GENETICS*  
Grossman, A. R., Lohr, M., Im, C. S.  
2004; 38: 119-173
  - **RcaE is a complementary chromatic adaptation photoreceptor required for green and red light responsiveness** *MOLECULAR MICROBIOLOGY*  
Terauchi, K., Montgomery, B. L., Grossman, A. R., Lagarias, J. C., Kehoe, D. M.  
2004; 51 (2): 567-577
  - ***Chlamydomonas reinhardtii* at the crossroads of genomics** *EUKARYOTIC CELL*  
Grossman, A. R., Harris, E. E., Hauser, C., Lefebvre, P. A., Martinez, D., Rokhsar, D., Shrager, J., Silflow, C. D., Stern, D., Vallon, O., Zhang, Z. D.  
2003; 2 (6): 1137-1150
  - **Analysis of light and CO<sub>2</sub> regulation in *Chlamydomonas reinhardtii* using genome-wide approaches.** *Photosynthesis research*  
Im, C. S., Zhang, Z., Shrager, J., Chang, C. W., Grossman, A. R.  
2003; 75 (2): 111-25
  - **A molecular understanding of complementary chromatic adaptation.** *Photosynthesis research*  
Grossman, A. R.  
2003; 76 (1-3): 207-15
  - **Elimination of high-light-inducible polypeptides related to eukaryotic chlorophyll a/b-binding proteins results in aberrant photoacclimation in *Synechocystis* PCC6803** *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS*  
Havaux, M., Guedeney, G., He, Q. F., Grossman, A. R.  
2003; 1557 (1-3): 21-33
  - **Multiple light inputs control phototaxis in *Synechocystis* sp strain PCC6803** *JOURNAL OF BACTERIOLOGY*  
Ng, W. O., Grossman, A. R., Bhaya, D.  
2003; 185 (5): 1599-1607
  - ***Chlamydomonas reinhardtii* genome project. A guide to the generation and use of the cDNA information** *PLANT PHYSIOLOGY*  
Shrager, J., Hauser, C., Chang, C. W., Harris, E. H., DAVIES, J., McDermott, J., Tamse, R., Zhang, Z. D., Grossman, A. R.  
2003; 131 (2): 401-408
  - **A molecular understanding of complementary chromatic adaptation** *PHOTOSYNTHESIS RESEARCH*  
Grossman, A. R.  
2003; 76 (1-3): 207-215
  - **Analysis of light and CO<sub>2</sub> regulation in *Chlamydomonas reinhardtii* using genome-wide approaches** *PHOTOSYNTHESIS RESEARCH*  
Im, C. S., Zhang, Z. D., Shrager, J., Chang, C. W., Grossman, A. R.  
2003; 75 (2): 111-125
  - **In vivo characterization of diatom multipartite plastid targeting signals** *JOURNAL OF CELL SCIENCE*  
Apt, K. E., Zaslavkaia, L., Lippmeier, J. C., Lang, M., Kilian, O., Wetherbee, R., Grossman, A. R., Kroth, P. G.

2002; 115 (21): 4061-4069

- **Analysis of the hli gene family in marine and freshwater cyanobacteria** *FEMS MICROBIOLOGY LETTERS*  
Bhaya, D., Dufresne, A., Vaulot, D., Grossman, A.  
2002; 215 (2): 209-219
- **A major light-harvesting polypeptide of photosystem II functions in thermal dissipation** *PLANT CELL*  
Elrad, D., Niyogi, K. K., Grossman, A. R.  
2002; 14 (8): 1801-1816
- **Identification and regulation of high light-induced genes in *Chlamydomonas reinhardtii*** *PLANT JOURNAL*  
Im, C. S., Grossman, A. R.  
2002; 30 (3): 301-313
- **nbIS, a gene involved in controlling photosynthesis-related gene expression during high light and nutrient stress in *Synechococcus elongatus* PCC 7942** *JOURNAL OF BACTERIOLOGY*  
van Waasbergen, L. G., Dolganov, N., Grossman, A. R.  
2002; 184 (9): 2481-2490
- **Novel motility mutants of *Synechocystis* strain PCC 6803 generated by in vitro transposon mutagenesis** *JOURNAL OF BACTERIOLOGY*  
Bhaya, D., Takahashi, A., Shahi, P., Grossman, A. R.  
2001; 183 (20): 6140-6143
- **Sulfur economy and cell wall biosynthesis during sulfur limitation of *Chlamydomonas reinhardtii*** *PLANT PHYSIOLOGY*  
Takahashi, H., Braby, C. E., Grossman, A. R.  
2001; 127 (2): 665-673
- **Light regulation of type IV pilus-dependent motility by chemosensor-like elements in *Synechocystis* PCC6803** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Bhaya, D., Takahashi, A., Grossman, A. R.  
2001; 98 (13): 7540-7545
- **Trophic obligate conversion of an photoautotrophic organism through metabolic engineering** *SCIENCE*  
Zaslavskaja, L. A., Lippmeier, J. C., Shih, C., Ehrhardt, D., Grossman, A. R., Apt, K. E.  
2001; 292 (5524): 2073-2075
- **Genes essential to iron transport in the cyanobacterium *Synechocystis* sp strain PCC 6803** *JOURNAL OF BACTERIOLOGY*  
Kato, H., Hagino, N., Grossman, A. R., Ogawa, T.  
2001; 183 (9): 2779-2784
- **Light minireview series** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Simoni, R. D., Grossman, A. R.  
2001; 276 (15): 11447-11448
- **Tracking the light environment by cyanobacteria and the dynamic nature of light harvesting** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Grossman, A. R., Bhaya, D., He, Q. F.  
2001; 276 (15): 11449-11452
- **Highly expressed and alien genes of the *Synechocystis* genome** *NUCLEIC ACIDS RESEARCH*  
Mrazek, J., Bhaya, D., Grossman, A. R., Karlin, S.  
2001; 29 (7): 1590-1601
- **The gamma subunits of phycoerythrin from a red alga: Position in phycobilisomes and sequence characterization** *JOURNAL OF PHYCOLOGY*  
Apt, K. E., Metzner, S., Grossman, A. R.  
2001; 37 (1): 64-70
- **The high light-inducible polypeptides in *Synechocystis* PCC6803 - Expression and function in high light** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
He, Q. F., Dolganov, N., Bjorkman, O., Grossman, A. R.  
2001; 276 (1): 306-314

- **Macronutrient utilization by photosynthetic eukaryotes and the fabric of interactions** *ANNUAL REVIEW OF PLANT PHYSIOLOGY AND PLANT MOLECULAR BIOLOGY*  
Grossman, A., Takahashi, H.  
2001; 52: 163-210
- **Introduction. Photosynthesis research**  
Berry, J. A., Field, C. B., Grossman, A. R.  
2001; 67 (1-2): 1-3
- **Special issue in honour of Olle Bjorkman: Plants and their light environment - Introduction** *PHOTOSYNTHESIS RESEARCH*  
Berry, J. A., Field, C. B., Grossman, A. R.  
2001; 67 (1-2): 1-3
- **A gene of Synechocystis sp strain PCC 6803 encoding a novel iron transporter** *JOURNAL OF BACTERIOLOGY*  
Kato, H., Grossman, A. R., Hagino, N., Ogawa, T.  
2000; 182 (22): 6523-6524
- **Isolation of regulated genes of the cyanobacterium Synechocystis sp strain PCC 6803 by differential display** *JOURNAL OF BACTERIOLOGY*  
Bhaya, D., Vaulot, D., Amin, P., Takahashi, A. W., Grossman, A. R.  
2000; 182 (20): 5692-5699
- **Acclimation of Chlamydomonas reinhardtii to its nutrient environment** *PROTIST*  
Grossman, A.  
2000; 151 (3): 201-224
- **Type IV pilus biogenesis and motility in the cyanobacterium Synechocystis sp PCC6803** *MOLECULAR MICROBIOLOGY*  
Bhaya, D., Bianco, N. R., Bryant, D., Grossman, A.  
2000; 37 (4): 941-951
- **Characterization of a gene encoding the light-harvesting violaxanthin-chlorophyll protein of Nannochloropsis sp (Eustigmatophyceae)** *JOURNAL OF PHYCOLOGY*  
Sukenik, A., Livne, A., Apt, K. E., Grossman, A. R.  
2000; 36 (3): 563-570
- **Chlamydomonas reinhardtii and photosynthesis: genetics to genomics** *CURRENT OPINION IN PLANT BIOLOGY*  
Grossman, A. R.  
2000; 3 (2): 132-137
- **Transformation of the diatom Phaeodactylum tricornutum (Bacillariophyceae) with a variety of selectable marker and reporter genes** *JOURNAL OF PHYCOLOGY*  
Zaslavskaja, L. A., Lippmeier, J. C., Kroth, P. G., Grossman, A. R., Apt, K. E.  
2000; 36 (2): 379-386
- **A pigment-binding protein essential for regulation of photosynthetic light harvesting** *NATURE*  
Li, X. P., Bjorkman, O., Shih, C., Grossman, A. R., Rosenquist, M., Jansson, S., Niyogi, K. K.  
2000; 403 (6768): 391-395
- **Psr1, a nuclear localized protein that regulates phosphorus metabolism in Chlamydomonas** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Wykoff, D. D., Grossman, A. R., Weeks, D. P., Usuda, H., Shimogawara, K.  
1999; 96 (26): 15336-15341
- **Chlamydomonas reinhardtii mutants abnormal in their responses to phosphorus deprivation** *PLANT PHYSIOLOGY*  
Shimogawara, K., Wykoff, D. D., Usuda, H., Grossman, A. R.  
1999; 120 (3): 685-693
- **Trafficking of proteins from chloroplast to vacuoles: Perspectives and directions** *JOURNAL OF PHYCOLOGY*  
Hoffman, N., Grossman, A. R.  
1999; 35 (3): 443-445

- **Sac3, an Snf1-like serine threonine kinase that positively and negatively regulates the responses of Chlamydomonas to sulfur limitation** *PLANT CELL*  
Davies, J. P., Yildiz, F. H., Grossman, A. R.  
1999; 11 (6): 1179-1190
- **The role of an alternative sigma factor in motility and pilus formation in the cyanobacterium Synechocystis sp. strain PCC6803** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Bhaya, D., Watanabe, N., Ogawa, T., Grossman, A. R.  
1999; 96 (6): 3188-3193
- **A polypeptide with similarity to phycocyanin alpha-subunit phycocyanobilin lyase involved in degradation of phycobilisomes** *JOURNAL OF BACTERIOLOGY*  
Dolganov, N., Grossman, A. R.  
1999; 181 (2): 610-617
- **Identification of a gene involved in the acclimation of Chlamydomonas reinhardtii to phosphorus starvation** *12th Annual Penn State Symposium in Plant Physiology*  
Shimogawara, K., Wykoff, D. D., Weeks, D. P., Kovar, J. L., Tsuzuki, M., Usuda, H., Grossman, A. R.  
AMER SOC PLANT BIOLOGISTS.1999: 361-364
- **A proposal for extending the nomenclature of light-harvesting proteins of the three transmembrane helix type** *PLANT MOLECULAR BIOLOGY REPORTER*  
Jansson, S., Green, B., Grossman, A. R., Hiller, R.  
1999; 17 (3): 221-224
- **The use of Chlamydomonas (Chlorophyta : Volvocales) as a model algal system for genome studies and the elucidation of photosynthetic processes** *JOURNAL OF PHYCOLOGY*  
Davies, J. P., Grossman, A. R.  
1998; 34 (6): 907-917
- **Bilin deletions and subunit stability in cyanobacterial light-harvesting proteins** *MOLECULAR MICROBIOLOGY*  
Toole, C. M., Plank, T. L., Grossman, A. R., Anderson, L. K.  
1998; 30 (3): 475-486
- **A response regulator of cyanobacteria integrates diverse environmental signals and is critical for survival under extreme conditions** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Schwarz, R., Grossman, A. R.  
1998; 95 (18): 11008-11013
- **Arabidopsis mutants define a central role for the xanthophyll cycle in the regulation of photosynthetic energy conversion** *PLANT CELL*  
Niyogi, K. K., Grossman, A. R., Bjorkman, O.  
1998; 10 (7): 1121-1134
- **The regulation of photosynthetic electron transport during nutrient deprivation in Chlamydomonas reinhardtii** *PLANT PHYSIOLOGY*  
Wykoff, D. D., Davies, J. P., Melis, A., Grossman, A. R.  
1998; 117 (1): 129-139
- **High-efficiency transformation of Chlamydomonas reinhardtii by electroporation** *GENETICS*  
Shimogawara, K., Fujiwara, S., Grossman, A., Usuda, H.  
1998; 148 (4): 1821-1828
- **Use of molecular genetics to investigate complementary chromatic adaptation: Advances in transformation and complementation** *PHOTOSYNTHESIS: MOLECULAR BIOLOGY OF ENERGY CAPTURE*  
Kehoe, D. M., Grossman, A. R.  
1998; 297: 279-290
- **Phycobilisome degradation and responses of cyanobacteria to nutrient limitation and high light** *XIth International Congress on Photosynthesis - Mechanisms and Effects*  
Grossman, A. R., Schwarz, R., Bhaya, D., Dolganov, N.  
SPRINGER.1998: 2853-2858

- **The roles of specific xanthophylls in photoprotection** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Niyogi, K. K., Bjorkman, O., Grossman, A. R.  
1997; 94 (25): 14162-14167
- **DNA insertional mutagenesis for the elucidation of a Photosystem II repair process in the green alga *Chlamydomonas reinhardtii*** *PHOTOSYNTHESIS RESEARCH*  
Zhang, L. P., Niyogi, K. K., Baroli, I., Nemson, J. A., Grossman, A. R., Melis, A.  
1997; 53 (2-3): 173-184
- **Phosphorelay control of phycobilisome biogenesis during complementary chromatic adaptation** *PHOTOSYNTHESIS RESEARCH*  
Grossman, A. R., Kehoe, D. M.  
1997; 53 (2-3): 95-108
- ***Chlamydomonas* Xanthophyll Cycle Mutants Identified by Video Imaging of Chlorophyll Fluorescence Quenching.** *The Plant cell*  
Niyogi, K. K., Bjorkman, O., Grossman, A. R.  
1997; 9 (8): 1369-1380
- ***Chlamydomonas* xanthophyll cycle mutants identified by video imaging of chlorophyll fluorescence quenching** *PLANT CELL*  
Niyogi, K. K., Bjorkman, O., Grossman, A. R.  
1997; 9 (8): 1369-1380
- **Suppression of mutants aberrant in light intensity responses of complementary chromatic adaptation** *JOURNAL OF BACTERIOLOGY*  
Casey, E. S., Kehoe, D. M., Grossman, A. R.  
1997; 179 (14): 4599-4606
- **New classes of mutants in complementary chromatic adaptation provide evidence for a novel four-step phosphorelay system** *JOURNAL OF BACTERIOLOGY*  
Kehoe, D. M., Grossman, A. R.  
1997; 179 (12): 3914-3921
- **Stable nuclear transformation of the diatom *Phaeodactylum tricornutum*** *MOLECULAR & GENERAL GENETICS*  
Apt, K. E., KROTHPANCIC, P. G., Grossman, A. R.  
1996; 252 (5): 572-579
- **Sulfur availability and the SAC1 gene control adenosine triphosphate sulfurylase gene expression in *Chlamydomonas reinhardtii*** *PLANT PHYSIOLOGY*  
Yildiz, F. H., Davies, J. P., Grossman, A.  
1996; 112 (2): 669-675
- **Similarity of a chromatic adaptation sensor to phytochrome and ethylene receptors** *SCIENCE*  
Kehoe, D. M., Grossman, A. R.  
1996; 273 (5280): 1409-1412
- **Biochemical characterization of the extracellular phosphatases produced by phosphorus-deprived *Chlamydomonas reinhardtii*** *PLANT PHYSIOLOGY*  
Quisel, J. D., Wykoff, D. D., Grossman, A. R.  
1996; 111 (3): 839-848
- **Sac1, a putative regulator that is critical for survival of *Chlamydomonas reinhardtii* during sulfur deprivation** *EMBO JOURNAL*  
Davies, J. P., Yildiz, F. H., Grossman, A.  
1996; 15 (9): 2150-2159
- **DISRUPTION OF A GENE ENCODING A NOVEL THIOREDOXIN-LIKE PROTEIN ALTERS THE CYANOBACTERIAL PHOTOSYNTHETIC APPARATUS** *JOURNAL OF BACTERIOLOGY*  
Collier, J. L., Grossman, A. R.  
1995; 177 (11): 3269-3276
- **EVOLUTION OF THE PHYCOBILIPROTEINS** *JOURNAL OF MOLECULAR BIOLOGY*  
Apt, K. E., Collier, J. L., Grossman, A. R.

1995; 248 (1): 79-96

- **THE STRUCTURE OF PHYCOBILISOMES IN MUTANTS OF SYNECHOCOCCUS SP STRAIN PCC-7942 DEVOID OF SPECIFIC LINKER POLYPEPTIDES** *PHOTOCHEMISTRY AND PHOTOBIOLOGY*  
Bhalerao, R. P., Collier, J. L., Gustafsson, P., Grossman, A. R.  
1995; 61 (3): 298-302
- **THE GENE FAMILY ENCODING THE FUCOXANTHIN CHLOROPHYLL PROTEINS FROM THE BROWN ALGA MACROCYSTIS-PYRIFERA** *MOLECULAR & GENERAL GENETICS*  
Apt, K. E., Clendennen, S. K., Powers, D. A., Grossman, A. R.  
1995; 246 (4): 455-464
- **CYANOBACTERIAL PROTEIN WITH SIMILARITY TO THE CHLOROPHYLL A/B BINDING-PROTEINS OF HIGHER-PLANTS - EVOLUTION AND REGULATION** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
DOLGANOV, N. A., Bhaya, D., Grossman, A. R.  
1995; 92 (2): 636-640
- **The use of site directed mutagenesis in the analysis of complementary chromatic adaptation** *Xth International Photosynthesis Congress*  
Kehoe, D., Grossman, A.  
SPRINGER.1995: 501-504
- **Light-harvesting complexes in oxygenic photosynthesis: Diversity, control, and evolution** *ANNUAL REVIEW OF GENETICS*  
Grossman, A. R., Bhaya, D., Apt, K. E., Kehoe, D. M.  
1995; 29: 231-288
- **CHANGES IN THE CYANOBACTERIAL PHOTOSYNTHETIC APPARATUS DURING ACCLIMATION TO MACRONUTRIENT DEPRIVATION** *PHOTOSYNTHESIS RESEARCH*  
Collier, J. L., Herbert, S. K., FORK, D. C., Grossman, A. R.  
1994; 42 (3): 173-183
- **Complementary chromatic adaptation: photoperception to gene regulation.** *Seminars in cell biology*  
Kehoe, D. M., Grossman, A. R.  
1994; 5 (5): 303-313
- **IN-VIVO AND IN-VITRO CHARACTERIZATION OF THE LIGHT-REGULATED CPCB2A2 PROMOTER OF FREMYELLA DIPLOSIPHON** *JOURNAL OF BACTERIOLOGY*  
Casey, E. S., Grossman, A.  
1994; 176 (20): 6362-6374
- **SEQUENCES CONTROLLING TRANSCRIPTION OF THE CHLAMYDOMONAS-REINHARDTII BETA(2)-TUBULIN GENE AFTER DEFLAGELLATION AND DURING THE CELL-CYCLE** *MOLECULAR AND CELLULAR BIOLOGY*  
Davies, J. P., Grossman, A. R.  
1994; 14 (8): 5165-5174
- **CHARACTERIZATION OF GENES ENCODING THE LIGHT-HARVESTING PROTEINS IN DIATOMS - BIOGENESIS OF THE FUCOXANTHIN CHLOROPHYLL-A/C PROTEIN COMPLEX** *Colloquium on Microalgal Biotechnology and Commercial Applications, at the 47th Annual Meeting of the Phycological-Society-of-America*  
Apt, K. E., Bhaya, D., Grossman, A. R.  
KLUWER ACADEMIC PUBL.1994: 225-30
- **Characterization of Sulfate Transport in Chlamydomonas reinhardtii during Sulfur-Limited and Sulfur-Sufficient Growth.** *Plant physiology*  
Yildiz, F. H., Davies, J. P., Grossman, A. R.  
1994; 104 (3): 981-987
- **CHARACTERIZATION OF SULFATE TRANSPORT IN CHLAMYDOMONAS-REINHARDTII DURING SULFUR-LIMITED AND SULFUR-SUFFICIENT GROWTH** *PLANT PHYSIOLOGY*  
Yildiz, F. H., Davies, J. P., Grossman, A. R.  
1994; 104 (3): 981-987
- **A SMALL POLYPEPTIDE TRIGGERS COMPLETE DEGRADATION OF LIGHT-HARVESTING PHYCOBILIPROTEINS IN NUTRIENT-DEPRIVED CYANOBACTERIA** *EMBO JOURNAL*  
Collier, J. L., Grossman, A. R.

1994; 13 (5): 1039-1047

- **Mutants of Chlamydomonas with Aberrant Responses to Sulfur Deprivation.** *The Plant cell*  
Davies, J. P., Yildiz, F., Grossman, A. R.  
1994; 6 (1): 53-63
- **MUTANTS OF CHLAMYDOMONAS WITH ABERRANT RESPONSES TO SULFUR DEPRIVATION** *PLANT CELL*  
Davies, J. P., Yildiz, F., Grossman, A. R.  
1994; 6 (1): 53-63
- **SPECIFIC AND GENERAL RESPONSES OF CYANOBACTERIA TO MACRONUTRIENT DEPRIVATION** *International Symposium on Cellular and Molecular Biology of Phosphate and Phosphorylated Compounds in Microorganisms*  
Grossman, A. R., Bhaya, D., Collier, J. L.  
AMER SOC MICROBIOLOGY.1994: 112-118
- **INSERTIONAL INACTIVATION OF GENES TO ISOLATE MUTANTS OF SYNECHOCOCCUS SP STRAIN PCC-7942 - ISOLATION OF FILAMENTOUS STRAINS** *JOURNAL OF BACTERIOLOGY*  
Dolganov, N., Grossman, A. R.  
1993; 175 (23): 7644-7651
- **CHARACTERIZATION OF GENE CLUSTERS ENCODING THE FUCOXANTHIN CHLOROPHYLL PROTEINS OF THE DIATOM PHAEODACTYLUM-TRICORNUTUM** *NUCLEIC ACIDS RESEARCH*  
Bhaya, D., Grossman, A. R.  
1993; 21 (19): 4458-4466
- **THE PHYCOBILISOME, A LIGHT-HARVESTING COMPLEX RESPONSIVE TO ENVIRONMENTAL-CONDITIONS** *MICROBIOLOGICAL REVIEWS*  
Grossman, A. R., Schaefer, M. R., Chiang, G. G., Collier, J. L.  
1993; 57 (3): 725-749
- **THE GAMMA-SUBUNIT OF R-PHYCOERYTHRIN AND ITS POSSIBLE MODE OF TRANSPORT INTO THE PLASTID OF RED ALGAE** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Apt, K. E., Hoffman, N. E., Grossman, A. R.  
1993; 268 (22): 16208-16215
- **GENES ENCODING PHYCOBILISOME LINKER POLYPEPTIDES ON THE PLASTID GENOME OF AGLAOTHAMNION-NEGLECTUM (RHODOPHYTA)** *PHOTOSYNTHESIS RESEARCH*  
Apt, K. E., Grossman, A. R.  
1993; 35 (3): 235-245
- **ENVIRONMENTAL-EFFECTS ON THE LIGHT-HARVESTING COMPLEX OF CYANOBACTERIA** *JOURNAL OF BACTERIOLOGY*  
Grossman, A. R., Schaefer, M. R., Chiang, G. G., Collier, J. L.  
1993; 175 (3): 575-582
- **CHARACTERIZATION AND TRANSCRIPT ANALYSIS OF THE MAJOR PHYCOBILIPROTEIN SUBUNIT GENES FROM AGLAOTHAMNION-NEGLECTUM (RHODOPHYTA)** *PLANT MOLECULAR BIOLOGY*  
Apt, K. E., Grossman, A. R.  
1993; 21 (1): 27-38
- **COMPLEMENTATION OF A RED-LIGHT-INDIFFERENT CYANOBACTERIAL MUTANT** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Chiang, G. G., Schaefer, M. R., Grossman, A. R.  
1992; 89 (20): 9415-9419
- **A POLYUBIQUITIN CARRIER DNA FROM A RED ALGA** *PLANT PHYSIOLOGY*  
Apt, K. E., Grossman, A. R.  
1992; 99 (4): 1732-1733
- **CHLOROSIS INDUCED BY NUTRIENT DEPRIVATION IN SYNECHOCOCCUS SP STRAIN PCC-7942 - NOT ALL BLEACHING IS THE SAME** *JOURNAL OF BACTERIOLOGY*  
Collier, J. L., Grossman, A. R.  
1992; 174 (14): 4718-4726

- **EXPRESSION OF THE ARYLSULFATASE GENE FROM THE BETA-2-TUBULIN PROMOTER IN CHLAMYDOMONAS-REINHARDTII** *NUCLEIC ACIDS RESEARCH*  
Davies, J. P., Weeks, D. P., Grossman, A. R.  
1992; 20 (12): 2959-2965
- **TRANSFORMATION OF THE FILAMENTOUS CYANOBACTERIUM FREMYELLA-DIPLOSIPHON BY CONJUGATION OR ELECTROPORATION** *MEETING ON THE PYRROLES OF PHOTOSYNTHETIC ORGANISMS*  
Chiang, G. G., Schaefer, M. R., Grossman, A. R.  
GAUTHIER-VILLARS.1992: 315-25
- **TARGETING PROTEINS TO DIATOM PLASTIDS INVOLVES TRANSPORT THROUGH AN ENDOPLASMIC-RETICULUM** *MOLECULAR & GENERAL GENETICS*  
Bhaya, D., Grossman, A.  
1991; 229 (3): 400-404
- **ISOLATION, TRANSCRIPTION, AND INACTIVATION OF THE GENE FOR AN ATYPICAL ALKALINE-PHOSPHATASE OF SYNECHOCOCCUS-SP STRAIN PCC 7942** *JOURNAL OF BACTERIOLOGY*  
Ray, J. M., Bhaya, D., Block, M. A., Grossman, A. R.  
1991; 173 (14): 4297-4309
- **CHARACTERIZATION AND MUTAGENESIS OF SULFUR-REGULATED GENES IN A CYANOBACTERIUM - EVIDENCE FOR FUNCTION IN SULFATE TRANSPORT** *JOURNAL OF BACTERIOLOGY*  
Laudenbach, D. E., Grossman, A. R.  
1991; 173 (9): 2739-2750
- **ISOLATION AND CHARACTERIZATION OF A SULFUR-REGULATED GENE ENCODING A PERIPLASMICALLY LOCALIZED PROTEIN WITH SEQUENCE SIMILARITY TO RHODANESE** *JOURNAL OF BACTERIOLOGY*  
Laudenbach, D. E., Ehrhardt, D., Green, L., Grossman, A.  
1991; 173 (9): 2751-2760
- **LIGHT-HARVESTING PROTEINS OF DIATOMS - THEIR RELATIONSHIP TO THE CHLOROPHYLL A/B BINDING-PROTEINS OF HIGHER-PLANTS AND THEIR MODE OF TRANSPORT INTO PLASTIDS** *MOLECULAR & GENERAL GENETICS*  
Grossman, A., MANODORI, A., Snyder, D.  
1990; 224 (1): 91-100
- **CYTOCHROME-C-553 IS NOT REQUIRED FOR PHOTOSYNTHETIC ACTIVITY IN THE CYANOBACTERIUM SYNECHOCOCCUS** *PLANT CELL*  
Laudenbach, D. E., Herbert, S. K., McDowell, C., FORK, D. C., Grossman, A. R., Straus, N. A.  
1990; 2 (9): 913-924
- **CHROMATIC ADAPTATION AND THE EVENTS INVOLVED IN PHYCOBILISOME BIOSYNTHESIS** *PLANT CELL AND ENVIRONMENT*  
Grossman, A. R.  
1990; 13 (7): 651-666
- **CHARACTERIZATION OF THE LIGHT-REGULATED OPERON ENCODING THE PHYCOERYTHRIN-ASSOCIATED LINKER PROTEINS FROM THE CYANOBACTERIUM FREMYELLA-DIPLOSIPHON** *JOURNAL OF BACTERIOLOGY*  
Federspiel, N. A., Grossman, A. R.  
1990; 172 (7): 4072-4081
- **STRUCTURE AND LIGHT-REGULATED EXPRESSION OF PHYCOERYTHRIN GENES IN WILD-TYPE AND PHYCOBILISOME ASSEMBLY MUTANTS OF SYNECHOCYSTIS SP STRAIN PCC-6701** *JOURNAL OF BACTERIOLOGY*  
Anderson, L. K., Grossman, A. R.  
1990; 172 (3): 1297-1305
- **GENES FOR PHYCOCYANIN SUBUNITS IN SYNECHOCYSTIS SP STRAIN PCC-6701 AND ASSEMBLY MUTANT UV16** *JOURNAL OF BACTERIOLOGY*  
Anderson, L. K., Grossman, A. R.  
1990; 172 (3): 1289-1296
- **SEQUENCE HOMOLOGY BETWEEN LIGHT HARVESTING POLYPEPTIDES OF PLANTS AND THE DIATOM PHAEODACTYLUM-TRICORNUTUM** *8TH INTERNATIONAL CONGRESS ON PHOTOSYNTHESIS*  
MANODORI, A., Grossman, A. R.

KLUWER ACADEMIC PUBL.1990: C541–C544

- **STRUCTURE AND EXPRESSION OF THE GENE ENCODING THE PERIPLASMIC ARYLSULFATASE OF CHLAMYDOMONAS-REINHARDTII** *MOLECULAR AND GENERAL GENETICS*  
deHostos, E. L., Schilling, J., Grossman, A. R.  
1989; 218 (2): 229-239
- **ROLE OF PROTEIN-SYNTHESIS IN REGULATION OF PHYCOBILIPROTEIN MESSENGER-RNA ABUNDANCE BY LIGHT QUALITY IN FREMYELLA-DIPLOSIPHON** *PLANT PHYSIOLOGY*  
Oelmuller, R., Grossman, A. R., Briggs, W. R.  
1989; 90 (4): 1486-1491
- **A REGION OF A CYANOBACTERIAL GENOME REQUIRED FOR SULFATE TRANSPORT** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Green, L. S., Laudenbach, D. E., Grossman, A. R.  
1989; 86 (6): 1949-1953
- **MOLECULAR CHARACTERIZATION OF PHYCOBILISOME REGULATORY MUTANTS OF FREMYELLA-DIPLOSIPHON** *JOURNAL OF BACTERIOLOGY*  
BRUNS, B. U., Briggs, W. R., Grossman, A. R.  
1989; 171 (2): 901-908
- **PHOTOREVERSIBILITY OF THE EFFECT OF RED AND GREEN LIGHT-PULSES ON THE ACCUMULATION IN DARKNESS OF MESSENGER-RNAS CODING FOR PHYCOCYANIN AND PHYCOERYTHRIN IN FREMYELLA-DIPLOSIPHON** *PLANT PHYSIOLOGY*  
Oelmuller, R., Grossman, A. R., Briggs, W. R.  
1988; 88 (4): 1084-1091
- **CHANGES IN ACCUMULATION AND SYNTHESIS OF TRANSCRIPTS ENCODING PHYCOBILISOME COMPONENTS DURING ACCLIMATION OF FREMYELLA-DIPLOSIPHON TO DIFFERENT LIGHT QUALITIES** *PLANT PHYSIOLOGY*  
Oelmuller, R., Conley, P. B., Federspiel, N., Briggs, W. R., Grossman, A. R.  
1988; 88 (4): 1077-1083
- **CHARACTERIZATION OF PHYCOBILIPROTEIN AND LINKER POLYPEPTIDE GENES IN FREMYELLA-DIPLOSIPHON AND THEIR REGULATED EXPRESSION DURING COMPLEMENTARY CHROMATIC ADAPTATION** *PHOTOSYNTHESIS RESEARCH*  
Grossman, A. R., Lemaux, P. G., Conley, P. B., BRUNS, B. U., Anderson, L. K.  
1988; 17 (1-2): 23-56
- **IDENTIFICATION AND PURIFICATION OF A DEREPRESSIBLE ALKALINE-PHOSPHATASE FROM ANACYSTIS-NIDULANS R2** *PLANT PHYSIOLOGY*  
Block, M. A., Grossman, A. R.  
1988; 86 (4): 1179-1184
- **MOLECULAR CHARACTERIZATION AND EVOLUTION OF SEQUENCES ENCODING LIGHT-HARVESTING COMPONENTS IN THE CHROMATICALLY ADAPTING CYANOBACTERIUM FREMYELLA-DIPLOSIPHON** *JOURNAL OF MOLECULAR BIOLOGY*  
Conley, P. B., Lemaux, P. G., Grossman, A.  
1988; 199 (3): 447-465
- **CHANGES IN SULFATE TRANSPORT CHARACTERISTICS AND PROTEIN-COMPOSITION OF ANACYSTIS-NIDULANS R2 DURING SULFUR DEPRIVATION** *JOURNAL OF BACTERIOLOGY*  
Green, L. S., Grossman, A. R.  
1988; 170 (2): 583-587
- **PURIFICATION AND BIOSYNTHESIS OF A DEREPRESSIBLE PERIPLASMIC ARYLSULFATASE FROM CHLAMYDOMONAS-REINHARDTII** *JOURNAL OF CELL BIOLOGY*  
deHostos, E. L., Togasaki, R. K., Grossman, A.  
1988; 106 (1): 29-37
- **ISOLATION AND CHARACTERIZATION OF LIGHT-REGULATED PHYCOBILISOME LINKER POLYPEPTIDE GENES AND THEIR TRANSCRIPTION AS A POLYCISTRONIC MESSENGER-RNA** *JOURNAL OF BACTERIOLOGY*  
Lomax, T. L., Conley, P. B., Schilling, J., Grossman, A. R.  
1987; 169 (6): 2675-2684

- **REGULATED SYNTHESIS OF PHYCOBILISOME COMPONENTS** *PHOTOCHEMISTRY AND PHOTOBIOLOGY*  
Grossman, A. R., Lemaux, P. G., Conley, P. B.  
1986; 44 (6): 829-837
- **Regulated synthesis of phycobilisome components.** *Photochemistry and photobiology*  
Grossman, A. R., Lemaux, P. G., Conley, P. B.  
1986; 44 (6): 827-837
- **GENES ENCODING MAJOR LIGHT-HARVESTING POLYPEPTIDES ARE CLUSTERED ON THE GENOME OF THE CYANOBACTERIUM FREMYELLA-DIPLOSIPHON** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Conley, P. B., Lemaux, P. G., Lomax, T. L., Grossman, A. R.  
1986; 83 (11): 3924-3928
- **CYANOBACTERIAL LIGHT-HARVESTING COMPLEX SUBUNITS ENCODED IN 2 RED-LIGHT INDUCED TRANSCRIPTS** *SCIENCE*  
Conley, P. B., Lemaux, P. G., Grossman, A. R.  
1985; 230 (4725): 550-553
- **MAJOR LIGHT-HARVESTING POLYPEPTIDES ENCODED IN POLYCISTRONIC TRANSCRIPTS IN A EUKARYOTIC ALGA** *EMBO JOURNAL*  
Lemaux, P. G., Grossman, A. R.  
1985; 4 (8): 1911-1919
- **ISOLATION AND CHARACTERIZATION OF A GENE FOR A MAJOR LIGHT-HARVESTING POLYPEPTIDE FROM CYANOPHORA-PARADOXA** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*  
Lemaux, P. G., Grossman, A.  
1984; 81 (13): 4100-4104
- **BIOSYNTHESIS OF CARBONIC-ANHYDRASE IN CHLAMYDOMONAS-REINHARDTII DURING ADAPTATION TO LOW CO<sub>2</sub>** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*  
Coleman, J. R., Grossman, A. R.  
1984; 81 (19): 6049-6053
- **IDENTIFICATION OF EXTRACELLULAR CARBONIC-ANHYDRASE OF CHLAMYDOMONAS-REINHARDTII** *PLANT PHYSIOLOGY*  
Coleman, J. R., Berry, J. A., Togasaki, R. K., Grossman, A. R.  
1984; 76 (2): 472-477
- **CYTOPLASMIC AND CHLOROPLAST SYNTHESIS OF PHYCOBILISOME POLYPEPTIDES** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*  
Egelhoff, T., Grossman, A.  
1983; 80 (11): 3339-3343