

## Dr. Dimitris Petroutsos, CNRS RESEARCHER

Co-director of the research team "Light, Photosynthesis and Metabolism" of Cell and Plant Physiology Lab, CEA Grenoble.  
+33 4 38 78 66 63; [dimitris.petroutsos@cea.fr](mailto:dimitris.petroutsos@cea.fr); ORCID: 0000-0002-9656-661X

### EDUCATION & PROFESSIONAL POSITIONS

**2014-Present:** CNRS Researcher (CR1), Cell and Plant Physiology, CNRS, CEA Grenoble, France.

**2012-2014:** Post-doc, Cell and Plant Physiology Lab, CNRS, CEA Grenoble, France.

**2007-2012:** Post-doc, Dept. of Plant Biology and Biotechnology, University of Münster, Germany.

**2006:** Visiting scientist (9 months), Arizona State University, Laboratory of Algae Research, Department of Applied Biological Sciences, Mesa, Arizona, USA.

**2002-2007:** PhD studies Chemical Engineering (Algal Biotechnology), National Technical University of Athens, Biotechnology Laboratory, School of Chemical Engineering, Athens, Greece.

**1994-1999:** Studies in Chemical Engineering, National Technical University of Athens, Greece.

### RESEARCH INTERESTS

Photosynthetic microalgae are fascinating organisms that thrive in both freshwater and oceanic waters but also on the soil. They use the energy from sunlight to generate the chemical energy needed to fix CO<sub>2</sub> releasing at the same time O<sub>2</sub>. In their everyday life microalgae are exposed to a wide range of abiotic stresses: from anthropogenic xenobiotics to nutrient or oxygen limitation or exposure to high intensity light. In all cases the cells need to maintain their homeostasis and for that complicated cellular mechanisms have evolved that provide protection and stress tolerance. Throughout my research, I have been interested in identifying the molecular mechanisms that photosynthetic microalgae employ to respond to different types of abiotic stresses. Presently I have been focusing on better understanding the complex interconnection of photoreception, photosynthesis and metabolism within *Chlamydomonas reinhardtii*.

### PROFESSIONAL MEMBERSHIPS

Board member, French Society of Photosynthesis; Member of International Society of Photosynthesis Research, the Hellenic Phycological Society, and Federation of European Biochemical Society.

### AWARDS & HONORS

**2016:** Poster award, GRC "Photosensory Receptors & Signal Transduction", **2014:** Senior Researcher (CR1) tenured CNRS position, **2013:** Travel award, French Society of Photosynthesis, **2011:** Lecturer, Chemical Engineering, University of Patras, Greece (declined), **2007:** PhD, National Technical University of Athens, **2002-2004:** PhD Scholarship of the Hellenic State Scholarships Foundation.

### PATENTS

Conte M, Dolch L-J, Mei C, Barette C, [Petroutsos D](#), Falconet D, Jouhet J, REBEILLE F, Cintrat J-C, Marechal E. Inhibitors of sterol metabolism for their use to accumulate triglycerides in microalgae, and methods thereof. **2015**, WO2015111029 A1.

### RESEARCH GRANTS

**ChlamyPHOT:** ANR-10-LABX-49-01. Agence Nationale pour la Recherche (ANR), Period: 2016-2018, Budget: 120 000 Euros.

**TripleLight:** AGIR-POLE-CBS, University of Grenoble Alpes, Period: 2016-2018, Budget: 15 000 Euros.

### PUBLICATIONS

**21.** [Petroutsos D](#)\*, Tokutsu R, Maruyama S, Flori S, Greiner A, Magneschi L, Cusant L, Greiner A, Kottke T, Mittag M, Hegemann P, Finazzi F\*, Minagawa J\* (**2016**). A blue-light photoreceptor mediates the feedback regulation of photosynthesis. *Nature*, 537(7621), 563–566 (\*corresponding authors).

**20.** Hochmal AK, Zinzus K, Charoenwattanasatien R, Gäbelein P, Mutoh R, Tanaka H, Schulze S, Liu G, Scholz M, Nordhues A, Offenborn JN, [Petroutsos D](#), Finazzi G, Fufezan C, Huang K, Kurisu G, Hippler M (**2016**). Calredoxin represents a novel type of calcium-dependent sensor-responder connected to redox regulation in the chloroplast. *Nature Communications* 7:11847, doi: 10.1038/ncomms11847.

**19.** Curien G, Flori S, Villanova V, Magneschi L, Giustini C, Forti G, Matringe M, [Petroutsos D](#), Kuntz M, Finazzi G (**2016**). The water to water cycles in microalgae. *Plant and Cell Physiology*, pcw048.

**18.** Bailleul B, Berne N, Murik O, [Petroutsos D](#), Prihoda J, Tanaka T, Villanova V, Bligny R, Flori S, Falconet D, Krieger-Liskay A, Santabarbara S, Rappaport F, Joliot P, Tirichine L, Paul Falkowski, Cardol P, Bowler C, Finazzi G (**2015**). Energetic coupling between plastids and mitochondria drives CO<sub>2</sub> assimilation in diatoms. *Nature* 524: 366–369.

**17.** Abida H, Dolch LJ, Mei C, Villanova V, Conte M, Block MA, Finazzi G, Bastien O, Tirichine L, Bowler C, Rébeillé F, [Petroutsos D](#)\*, Jouhet J\*, Maréchal E\* (**2015**). Membrane glycerolipid remodeling triggered by nitrogen and phosphorus starvation in *Phaeodactylum tricorutum*. *Plant Physiology* 167(1):118-36. (\*corresponding authors)

**16.** Finazzi G, [Petroutsos D](#), Tomizioli M, Flori S, Sautron E, Villanova V, Rolland N, Seigneurin-Berny D (**2015**). Ions channels/transporters and chloroplast regulation. *Cell Calcium* 58: 86–97.

**15.** Nagy G, Ünneper R, Zsiros O, Tokutsu R, Takizawa K, Porcar K, Moyet L, [Petroutsos D](#), Finazzi G, Minagawa J, and Garab G

(2014). Chloroplast remodeling during state transitions in *Chlamydomonas reinhardtii* cells as revealed by non-invasive techniques in vivo. **PNAS** 111(13): 5042-7.

14. Kukuczka B, Magneschi L, Petroutsos D, Bald T, Powikrowska M, Jensen PE, Fufezan C, Finazzi G, Hippler M (2014). Proton Gradient Regulation5-Like1-Mediated Cyclic Electron Flow is Crucial for Acclimation to Anoxia and Complementary to Non photochemical Quenching in Stress Adaptation. **Plant Physiology** 165(4):1604-1617.

13. Johnson X, Steinbeck J, Dent R, Richaud P, Ozawa S-I, Houille-Vernes L, Petroutsos D, Rappaport F, Grossman AR, Niyogi KK, Hippler M and Alric J (2014). Proton Gradient Regulated5-mediated Cyclic Electron Flow under ATP- or redox-limiting conditions, a study of pgr5 ΔATPase and pgr5 ΔrbcL mutants in *Chlamydomonas reinhardtii*. **Plant Physiology** 165(1):438-52.

12. Petroutsos D, Amiar S, Abida H, Dolch L-J, Bastien O, Jouhet J, Rébeillé F, Falconet D, Block M, McFadden G, Bowler C, Botté C, Maréchal E (2014). Evolution of galactoglycerolipid biosynthetic pathways - from cyanobacteria to primary plastids and from primary to secondary plastids. **Progress in Lipid Research** 54C: 68-85.

11. Boudiere L, Michaud M, Petroutsos D, Rebeille F, Falconet D, Bastien O, Roy S, Finazzi G, Rolland N, Jouhet J, Block MA, Marechal, E (2014). Glycerolipids in photosynthesis: Composition, synthesis and trafficking. **Biochimica et Biophysica Acta-Bioenergetics** 1837(4):470-80.

10. Allorent G, Tokutsu R, Roach T, Peers G, Cardol P, Girard-Bascou J, Seigneurin-Berny D, Petroutsos D, Kuntz M, Breyton C, Franck F, Wollman FA, Niyogi KK, Krieger-Liszka A, Minagawa J, Finazzi G (2013). A Dual Strategy to Cope with High Light in *Chlamydomonas reinhardtii*. **The Plant Cell** 2013, 545-57.

9. Terashima M, Petroutsos D, Hüdig M, Tolstygina I, Trompelt K, Gäbelein P, Fufezan C, Kudla J, Weinl S, Finazzi G and Hippler M (2012). Calcium-dependent regulation of cyclic photosynthetic electron transfer by a CAS, ANR1 and PGRL1 complex. **PNAS**, 17717-17722. (\* co-first author)

8. Petroutsos D, Busch A, Janssen I, Trompelt K, Bergner SV, Weinl S, Holtkamp M, Karst U, Kudla J & Hippler M (2011). The Chloroplast Calcium Sensor CAS Is Required for Photoacclimation in *Chlamydomonas reinhardtii*. **The Plant Cell**, 2950-2963.

7. Tolleter D, Ghysels B, Alric J, Petroutsos D, Tolstygina I, Krawietz D, Happe T, Auroy P, Adriano JM, Beyly A, Cuine S, Plet J, Reiter IM, Genty B, Cournac L, Hippler M & Peltier G (2011). Control of Hydrogen Photoproduction by the Proton Gradient Generated by Cyclic Electron Flow in *Chlamydomonas reinhardtii*. **The Plant Cell**, 2619–2630.

6. Petroutsos D, Terauchi AM, Busch A, Hirschmann I, Merchant SS, Finazzi G & Hippler M (2009). PGRL1 participates in iron-induced remodeling of the photosynthetic apparatus and in energy metabolism in *Chlamydomonas reinhardtii*. **Journal of Biological Chemistry**, 32770–32781.

5. Panagiotou G, Pachidou F, Petroutsos D, Olsson L & Christakopoulos P (2008). Fermentation characteristics of *Fusarium oxysporum* grown on acetate. **Bioresource Technology**, 7397–7401.

4. Petroutsos D, Katapodis P, Samiotaki M, Panayotou G & Kekos D (2008). Detoxification of 2,4-dichlorophenol by the marine microalga *Tetraselmis marina*. **Phytochemistry**, 707–714.

3. Petroutsos D, Wang J, Katapodis P, Kekos D, Sommerfeld M & Hu Q (2007). Toxicity and metabolism of p-chlorophenol in the marine microalga *Tetraselmis marina*. **Aquatic Toxicology**, 192–201.

2. Petroutsos D, Katapodis P, Christakopoulos P & Kekos D (2007). Removal of p-chlorophenol by the marine microalga *Tetraselmis marina*. **Journal of Applied Phycology**, 485–490.

1. Mamma D, Papadopoulou E, Petroutsos D, Christakopoulos P & Kekos D (2006). Removal of 1,3-dichloro-2-propanol and 3-chloro-1,2-propanediol by the whole cell system of *Pseudomonas putida* DSM 437. **J Environ Sci Health A Tox Hazard Subst Environ Eng**, 303–313.

## INVITED ORAL PRESENTATIONS

4. Petroutsos D. Gordon Research Conference on Photosynthesis, Sunday River Mewry, ME, USA, July 16-21 2017.

3. Petroutsos D, Tokutsu R, Maruyama S, Flori S, Magneschi L, Cusant L, Greiner A, Kottke T, Mittag M, Hegemann P, Minagawa J, Finazzi F. A blue light photoreceptor mediates the feedback regulation of photosynthesis. Invited Oral presentation at the 4th Asia-Oceania Algae Innovation Summit, Wuhan, China, 2016, September 18-21

2. Flori S, Tokutsu R, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J, Finazzi G and Petroutsos D. Color- and metabolism-dependent regulation of photoprotection in green algae. Oral presentation at the Conference on Phenotype MicroArray Analysis of Cells, Florence, Italy, 10-12 September 2015.

1. Petroutsos D, Tokutsu R, Flori S, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J and Finazzi G. Photoprotection in *Chlamydomonas* revisited: role of light and metabolism. Oral presentation at the 7th Asian Pacific Phycological Forum, Wuhan, China, 20-24 September 2014.

## ORAL PRESENTATIONS SELECTED FROM ABSTRACT

20. Petroutsos D, Tokutsu R, Maruyama S, Flori S, Greiner A, Kottke T, Mittag M, Hegemann P, Minagawa J, Finazzi F. A blue light photoreceptor mediates the feedback regulation of photosynthesis. Oral presentation at the 17th International Conference on The Cell & Molecular Biology of *Chlamydomonas*, Kyoto, Japan, 26-30 June 2016.

19. Petroutsos D, Tokutsu R, Maruyama S, Flori S, Magneschi L, Cusant L, Greiner A, Kottke T, Mittag M, Hegemann P, Minagawa J, Finazzi F. A blue light photoreceptor mediates the feedback regulation of photosynthesis. Oral presentation at ENCAPP 2016, the European Networks Conference on Algal and Plant Photosynthesis, 26-29 April 2016, Qawra, Malta.

18. Petroutsos D. Gene expression control by the blue light photoreceptor phototropin in *Chlamydomonas*. Oral presentation at GRAL 48h, Autrans (France), 14 and 15 March 2016.

17. Petroutsos D. Blue light perception drives photoprotection in microalgae. Oral presentation at *Journée iRTSV*, CEA Grenoble (France), 10 November 2015.

16. Petroutsos D, Tokutsu R, Flori S, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J and Finazzi G. Photoprotection in *Chlamydomonas* is under control of the blue light photoreceptor phototropin and of metabolism. Oral presentation at the Meeting of the French Society of Bioenergetics, Mittelwihr, France, 16-20 septembre 2015.
15. Petroutsos D, Tokutsu R, Flori S, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J and Finazzi G. The blue light photoreceptor PHOTOTROPIN and metabolism control photoprotection in *Chlamydomonas*. Oral presentation at the Annual meeting of the French Photosynthesis Society, Paris, France, 18-19 May 2015.
14. Petroutsos D, Tokutsu R, Flori S, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J and Finazzi G. The blue light photoreceptor PHOTOTROPIN controls photoprotection in *Chlamydomonas reinhardtii*. Oral presentation at the 6th annual meeting of the EFOR network- ALGAE WORKSHOP, Paris, France, 9-11 March 2015.
13. Petroutsos D, Tokutsu R, Flori S, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J and Finazzi G. Light energy management in green algae: deciphering the link between photo-perception, photo-utilization and photo-protection. Oral presentation at the meeting "Plastids differentiation and communication", Grenoble, France, 27-28 November 2014.
12. Petroutsos D, Abida H, Tourcier G, Cussac M, Gros V, Finazzi G, Block M, Rebeillé F, Jouhet J & Maréchal E. Membrane glycerolipid remodelling in response to nutrient limitation in the marine diatom *Phaeodactylum tricorutum*. Oral presentation at the 12th Euro Fed Lipid Congress, "Oils, Fats and Lipids: From Lipidomics to Industrial Innovation, Montpellier, France, 14-17 September 2014.
11. Petroutsos D, Tokutsu R, Flori S, Karageorgou D, Greiner A, Mittag M, Hegemann P, Minagawa J, Finazzi G. Photoprotection in *Chlamydomonas* revisited: role of light and metabolism. Oral presentation at the 16th International Conference on The Cell & Molecular Biology of *Chlamydomonas*, Pacific Grove, CA, USA, 8-13 June 2014.
10. Petroutsos D, Terashima M, Hüdig M, Tolstygina I, Trompelt K, Gäbelein P, Kudla J, Weinl S, Finazzi G and Hippler M. Ca<sup>2+</sup> regulates cyclic electron flow via the combined function of CAS, ANR1 and PGRL1. Oral presentation at the Annual meeting of the French Photosynthesis Society, Paris, France, 17-18 June 2013.
9. Petroutsos D, Terashima M, Hüdig M, Tolstygina I, Trompelt K, Gäbelein P, Kudla J, Weinl S, Finazzi G and Hippler M. Calcium-dependent regulation of cyclic photosynthetic electron transfer by a CAS, ANR1 and PGRL1 complex. Oral presentation at the SFBBM-SFB conference "From molecular mechanisms to integrated life sciences", Grenoble, France, 21-23 November 2012 (page L43 in the conference proceedings).
8. Petroutsos D, Terashima M, Hüdig M, Tolstygina I, Trompelt K, Kudla J, Weinl S, Finazzi G and Hippler M. Calcium dependent regulation of cyclic photosynthetic electron transfer via a CAS, ANR1 and PGRL1 complex. Oral presentation at the 15th International Conference on The Cell & Molecular Biology of *Chlamydomonas*, Potsdam, Germany, 5-10 June 2012 (page 15 in the conference proceedings).
7. Petroutsos D. The chloroplast calcium sensor CAS is required for photoacclimation in *Chlamydomonas reinhardtii*. Oral presentation at the International Botanical Meeting, Berlin, Germany, 19-25 September 2011 (page 203 in the conference proceedings).
6. Petroutsos D. The chloroplast calcium sensor CAS is required for photoacclimation in *Chlamydomonas reinhardtii*. Oral presentation at the 5th European Phycological Conference, Rodos, Greece, 4-9 September 2011 (page 85 in the conference proceedings).
5. Petroutsos D. The chloroplast calcium sensor CAS is required for photoprotection in *Chlamydomonas reinhardtii*. Oral presentation at the annual meeting of the European project SUNBIOPATH (FP7), Verona, Italy, 28-29 March 2011.
4. Busch A, Petroutsos D, Hirschmann I, Hawat S and Hippler M. The calcium sensing receptor (CAS) and calcium are involved in the high light response of *Chlamydomonas reinhardtii*. Oral presentation at the 14th International Conference on the Cell and Molecular Biology of *Chlamydomonas*, Norton, MA, USA, 6-10 June 2010 (pages 17 in the conference proceedings).
3. Petroutsos D. PGRL1 Participates in iron-induced remodeling of the photosynthetic apparatus and in energy metabolism in *Chlamydomonas reinhardtii*. Oral presentation at the 2nd International Photosynthesis Workshop, Bichl, Germany, 11-14 October 2009.
2. Petroutsos D. TEF3 (PGRL1) is involved in redox energy metabolism and the iron- deficiency response of *Chlamydomonas reinhardtii*. Oral presentation at the Annual German Congress of Plant Biochemistry, Wallenfels, Germany, 15-17 May 2009.
1. Petroutsos D, Katapodis D, Christakopoulos P and Kekos D. *p*-Chlorophenol biodegradation by the marine microalga *Tetraselmis marina*. Oral presentation at 5th Hellenic Chemical Engineering Conference, Thessaloniki, Greece 26-28 May 2005 (pages 821-824 in the conference proceedings).

## POSTER PRESENTATIONS

26. Petroutsos D, Tokutsu R, Maruyama S, Flori S, Greiner A, Magneschi L, Cusant L, Kottke T, Mittag M, Hegemann P, Minagawa J and Finazzi G. A blue light photoreceptor mediates the feedback regulation of photosynthesis. Poster presentation at the Gordon Research Conference "Photosensory Receptors & Signal Transduction", Galveston, TX, USA, 24-29 January 2016. "Won the Best poster award".
25. Jouhet J, Petroutsos D, Abida H, Dolch L J, Meï C, Villanova V, Conte M, Bastien O, Trichine L, Bowler C, Finazzi G, Block MA, Maréchal E and Rébeillé F. Membrane glycerolipid remodeling in response to nutrient limitation in the marine diatom *Phaeodactylum tricorutum*. Poster presentation at the GRC Plant Lipids: Structure, Metabolism & Function, 1-6 February 2015, Galveston, TX, USA
24. Flori S, Gallet B, Moriscot C, Eicke S, Zeeman S, Rolland N, Tardif M, Ferro M, Schoehn G, Petroutsos D, Falconet D and Finazzi G. Revealing the structural bases for light utilization in diatoms. Poster presentation at the Annual meeting of the French Photosynthesis Society, Paris, France, 18-19 May 2015.
23. Taddei L, Rogato A, Jaubert M, Petroutsos D, Finazzi G, Falciatore A. Dissecting the molecular bases of photoprotection in diatoms by studying the Lhcx family. Poster presentation at the Annual meeting of the French Photosynthesis Society, Paris, France, 18-19 May 2015.

22. Petroutsos D, Terashima M, Hüdig M, Tolstygina I, Trompelt K, Gäbelein P, Kudla J, Weinl S, Finazzi G and Hippler M. Calcium-dependent regulation of cyclic photosynthetic electron transfer by a CAS, ANR1 and PGRL1 complex. Poster presentation at the 16th International Congress on Photosynthesis, St. Louis, MO, USA, 11-16 August, 2013.
21. Abida H, Petroutsos D, Rebeillé F, Block M, Jouhet J, Finazzi F, Tirichine L, Marechal E, Bowler C. Better understanding diatom lipid metabolism, a step towards engineering tomorrow's biodiesel producers. Poster presentation at EMBO workshop "The Molecular Life of Diatoms", 25-28 June 2013, Paris, France.
20. Fortunato AE, Cheminant S, Huysman M, Bernardes J, Petroutsos D, Carbone A, Finazzi F, Brembu T, Winge P, Bones A, Falciatore A. Looking for the circadian clock components in marine diatoms. Poster presentation at EMBO workshop "The Molecular Life of Diatoms", 25-28 June 2013, Paris, France.
19. Murik O, Tirichine L, Bailleul B, Prihoda J, Petroutsos D, Finazzi F, Bowler C. The role of the mitochondrial alternative oxidase in the adaptation of diatoms to changing environmental conditions. Poster presentation at EMBO workshop "The Molecular Life of Diatoms", 25-28 June 2013, Paris, France.
18. Petroutsos D, Simionato D, Block MA, La Rocca N, Jouhet J, Falconet D, Morosinotto T, Finazzi G, Maréchal E. Detailed biochemical and physiological analysis of the response of the marine algae *Nannochloropsis gaditana* and *Phaeodactylum tricorutum* to nitrogen starvation. Poster presentation at EMBO workshop "The Molecular Life of Diatoms", 25-28 June 2013, Paris, France.
17. Petroutsos D, Simionato D, Block MA, La Rocca N, Jouhet J, Falconet D, Morosinotto T, Finazzi G, Maréchal E. Detailed biochemical and physiological analysis of the response of the marine algae *Nannochloropsis gaditana* and *Phaeodactylum tricorutum* to nitrogen starvation. Poster presentation at the GRC Plant Lipids: Structure, Metabolism & Function, 27 January- 1 February 2013, Galveston, TX, USA.
16. Steinbeck J, Petroutsos D, Niyogi KK, Johnson X and Hippler M. Functional analysis of the proton GRadient regulation protein PGR5 in *Chlamydomonas reinhardtii*. Poster presentation at the 21st Photosynthesis Workshop, 9-10 August 2012, Mainz, Germany.
15. Kukuczka B, Petroutsos D, Jensen PE, Lunde C, Finazzi G and Hippler M. Exploring the functional properties of PGRL1 in *Physcomitrella patens*. Poster presentation at the 21st Photosynthesis Workshop, 9-10 August 2012, Mainz, Germany.
14. Trompelt K, Petroutsos D, Terashima M, Hüdig M, Weinl S and Hippler M. Proteomics to investigate a photosystem I dependent supercomplex formed under anaerobic growth conditions in *Chlamydomonas reinhardtii*. Poster presentation at the 15<sup>th</sup> International Conference on The Cell & Molecular Biology of *Chlamydomonas*, Potsdam, Germany, 5-10 June 2012 (page 80 in the conference proceedings).
13. Bergner SV, Kotz S, Xue H, Niehues A, Petroutsos D, Fufezan C and Hippler M. Functional insights into the *Chlamydomonas reinhardtii* light-harvesting complex stress-related proteins (lhcsrs). Poster presentation at the 15<sup>th</sup> International Conference on The Cell & Molecular Biology of *Chlamydomonas*, Potsdam, Germany, 5-10 June 2012 (page 57 in the conference proceedings).
12. Bergner SV, Kotz S, Ostendorf E, Petroutsos D and Hippler M. Functional insights into the *Chlamydomonas reinhardtii* Light-Harvesting Complex Stress Related proteins (LHCSRs). Poster presentation at the International Botanical Meeting, Berlin, Germany, 19-25 September 2011 (page 207 in the conference proceedings).
11. Petroutsos D, Terashima M, Eckert C, Weinl S, Kudla J and Hippler M. Insights into the regulation of cyclic electron transfer and hydrogen production in *Chlamydomonas reinhardtii*. Poster presentation in ESF Research Conference "Microorganisms for Bio-fuel Production from Sunlight", 18-21 September 2011, Bielefeld, Germany (page 80 in the conference proceedings).
10. Petroutsos D, Roupakas A, Stamatis H, Kekos D and Katapodis P. Toxicity and biotransformation of chlorophenols by the marine microalga *Tetraselmis marina*: a QSAR study. Poster presentation at the 5<sup>th</sup> European Phycological Conference, Rodos, Greece, 4-9 September 2011 (pages 129 in the conference proceedings).
9. Petroutsos D, Busch A, Hirschmann I, Scholz M, Hawat S, Weinl S, Kudla J and Hippler M. Involvement of Ca<sup>2+</sup> sensing receptor (CAS) and Ca<sup>2+</sup> in the integrated regulation of chloroplast photo-acclimation and photo-adaptation. Poster presentation at Plant Calcium Signaling Meeting, Muenster, Germany 31 August- 3 September 2010.
8. Petroutsos D, Busch A, Hirschmann I, Scholz M, Hawat S and Hippler M. The calcium sensing receptor (CAS) and calcium are involved in the high-light response of *Chlamydomonas reinhardtii*. Poster presentation at Mitochondria & Chloroplasts Gordon Research Conference, Lucca (Barga), Italy, 11-16 July 2010.
7. Petroutsos D, Terauchi AM, Busch A, Hirschmann I, Merchant SS, Finazzi G and Hippler M. PGRL1 is involved in redox energy metabolism and the iron-deficiency response of *Chlamydomonas reinhardtii*. Poster presentation at "Plants for the Future" meeting, Leipzig, Germany, 6-11 September 2009 (page S19-23 in the conference proceedings).
6. Petroutsos D, Wang J, Katapodis P, Kekos D, Sommerfeld M and Hu Q. Toxicity and metabolism of *p*-chlorophenol in the marine microalga *Tetraselmis marina*. Poster presentation at the 8<sup>th</sup> International Marine Biotechnology Conference, Eilat, Israel, 11-16 March 2007 (page 200 in the conference proceedings).
5. Petroutsos D, Katapodis D, Christakopoulos P and Kekos D. Biodegradation of *p*-chlorophenol by the marine microalga *Tetraselmis marina* in a photobioreactor. Poster presentation at the 7<sup>th</sup> International Marine Biotechnology Conference, St. John's, Canada, 7-12 June 2005 (page 328 in the conference proceedings).

4. Petroutsos D, Katapodis D, Christakopoulos P and Kekos D. The effect of various chlorophenols on the microalga *Tetraselmis marina*. Poster presentation at the 6<sup>th</sup> European workshop "Biotechnology of Microalgae", Nuthetal, Germany, 23-25 May 2004.
3. Petroutsos D, Katapodis P, Christakopoulos P and Kekos D. Comparative studies of three marine microalgal species on their ability to biodegrade phenolic compounds. Poster presentation at the 12<sup>th</sup> International Biotechnology Symposium and Exhibition, Santiago, Chile, 17-22 October 2004 (page 163 in the conference proceedings).
2. Petroutsos D, Katapodis P, Christakopoulos P and Kekos D. Biodegradation of phenolic compounds by the marine microalgae *Nitzschia punctata* and *Tetraselmis marina*. Poster presentation at Cost D25 Applied Biocatalysis Workshop: "The future of biocatalysis in the European Union", Athens, Greece 30 Sep -2 Oct 2004 (page 90 in the conference proceedings).
1. Mamma D, Nedev G, Papadopoulou E, Petroutsos D, Christakopoulos P, Macris B and Kekos D. Microbial degradation of chlorinated compounds in industrial resins. Poster presentation at 4<sup>th</sup> Hellenic Chemical Engineering Conference, Patra, Greece 29- 31 May 2003 (pages 1169-1172 in the conference proceedings).