

Editorial note 1

Letter to the editor

I am seeking, from our readership, letters to the editors on two separate topics for publication in the forthcoming issues of *Photosynthesis Research*: (a) *stoichiometry of photosystem II to photosystem I reaction centers*; and (b) *is there cyclic photophosphorylation in vivo?* These letters should have a title, be typed double-spaced, and, in general, not exceed more than four pages. All letters should be accompanied by appropriate key citations in full (see *Photosynthesis Research* 10: 519–526, December 1986). Authors may also include one key figure with an explanatory legend. All letters will be reviewed and edited before publication. I am hoping for a lively debate.

Urbana, IL
USA

GOVINDJEE, Editor

Editorial note 2

Our editors

To help our readers in becoming acquainted with the members of our editorial board, we provide below a current list of the names, addresses, telephone numbers and the areas of expertise of all our editors (editors-in-chief, associate editors and consulting editors). We hope that this list will not only be useful to our readers, but to all the members of the photosynthesis research community. We request prospective authors to consult *Photosynthesis Research* 10: 519–526, December 1986, for the new instructions for contributions to our journal. In particular, we draw the attention of our authors to the new reference system (see p. 525 of the new instructions).

Please note that there are no page charges for publication in our journal.

Urbana, IL
USA

GOVINDJEE, Editor

Names, addresses and phone numbers

Prof. Jacques Aghion
 Biochimie Vegetale
 Département de Botanique
 Université de Liège
 Sart Tilman
 B-4000 Liege
 BELGIUM

Phone: 041-561841

Prof. Jan Amez
 (associate editor)
 Department of Biophysics
 Huygens Laboratory
 State University of Leiden
 P.O. Box 9504
 2300 RA Leiden
 THE NETHERLANDS

Phone: 071-275980

Prof. James Barber
 Dept. of Pure & Appl. Biology
 Imperial College of Science
 and Technology
 Prince Consort Road
 London SW7 2BB
 UNITED KINGDOM

Phone: 01-5895111
 Ext. 7433/7497

Prof. Robert E. Blankenship
 Dept. of Chemistry
 Arizona State University
 Tempe, AZ 85287
 USA

Phone: 602-965-1439

Prof. P. Böger
 Universität Konstanz
 Lehrstuhl für Physiologie
 und Biochemie der Pflanzen
 Postfach 5560
 D-7750 Konstanz
 WEST GERMANY

Phone: 07531-882101

Prof. Hans J. Bohnert
 The University of Arizona
 Dept. of Biochemistry
 Biosciences West
 Tucson, AZ 85721
 USA

Phone: 602-621-7961/7982

Areas of expertise

1. Photochemistry and photophysics of chlorophylls
2. Reconstitution experiments
3. Phosphorylation
4. Membrane dynamics

1. Primary photochemistry
2. Excitation energy transfer
3. Bacterial photosynthesis
4. Spectroscopy: fluorescence; difference absorption

1. Primary reactions (absorption and emission spectroscopy)
2. Membrane structure (thylakoid)/functional relationships
3. Protein phosphorylation of thylakoids
4. Lipid properties of thylakoids
5. Protein and polypeptide compositions and structure

1. Bacterial photosynthesis
2. Electron transport
3. Excitation energy transfer
4. Spectroscopy

1. Mode of action of photosynthetic inhibitors
2. Biochemistry of photosynthesis
3. Pigment biosynthesis

1. Molecular biology of chloroplast
2. Chloroplast transport of proteins; mutagenesis and genetic engineering
3. Responses to salt-stress at the level of transcription
4. Stress-induced protein turnover

Dr. Warwick Bottomley*

(associate editor)

CSIRO

Division of Plant Industry

P.O. Box 1600

Canberra City, ACT 2601

AUSTRALIA

Phone: 062-464911

1. Molecular biology of photosynthesis
2. Molecular genetics of photosynthesis

Prof. George Bowes

Botany Department

3157 McCarty Hall

The University of Florida

Gainesville, FL 32611

USA

Phone: 904-392-1891

1. Photorespiration
2. RUBISCO and PEPC^{ase}
3. Carbon assimilation in aquatic organisms (including unicellular algae)
4. Elevated growth CO₂ effects on plants
5. Ecophysiology of photosynthesis

Prof. J.W. Bradbeer

Department of Biology

King's College London

Campden Hill Road

London W8 7AH

UNITED KINGDOM

Phone: 01-9375411

Ext. 321

1. Photosynthetic carbon cycle enzymes and their regulation
2. Chloroplast development including fine structure, DNA, RNA, and proteins
3. C-4 and CAM
4. Ecophysiology of photosynthesis

Prof. Gary Brudvig

Dept. of Chemistry

Yale University

New Haven, CT 06511

USA

Phone: 203-432-5202

1. Manganese chemistry
2. Oxygen-evolving complex

Prof. D.A. Bryant

Microbiology Program

S-101 Frear Bldg.

Penn State University

University Park, PA 16802

USA

Phone: 814-865-1992

1. Cyanobacterial molecular genetics
2. Light-harvesting antennae
3. Molecular biology
4. Bacterial photosynthesis
5. Cyanobacterial physiology

Prof. David T. Canvin

(associate editor)

Dean of the School of

Graduate Studies and Research

Queen's University

Kingston, Ontario-K7L 3N6

CANADA

Phone: 613-545-6079

1. Photorespiration and glycolate pathway
2. Photosynthetic carbon assimilation
3. Leaf or whole plant photosynthesis
4. Carbon assimilation in unicellular algae

* A replacement may soon be announced.

Prof. Raymond Chollet

Dept. of Agric. Biochemistry
East Campus
Univ. of Nebraska-Lincoln
Lincoln, NE 68583-0718
USA

Phone: 402-472-2936/2932

D. Jacques Duranton

Département de Biologie
Service de Biophysique
CEN Saclay – BP No. 2
91191 Gif sur Yvette Cedex
FRANCE

Phone: 06-9083571

Prof. G.E. Edwards

Botany Department
Washington State Univ.
Pullman, WA 99164-4230
USA

Phone: 608-262-1057

Prof. Govindjee

(chief editor)
Dept. of Plant Biology
University of Illinois
289 Morrill Hall
505 S. Goodwin Ave.
Urbana, IL 61801
USA

Phone: 217-333-1794

Prof. Dewey Holten

Dept. of Chemistry
Box 1134
Washington University
St. Louis, MO 63130
USA

Phone: 314-889-6502/6480

Prof. Peter Horton

Research Institute for
Photosynthesis
Department of Biochemistry
University of Sheffield
Sheffield, S10 2TN
UNITED KINGDOM

Phone: 0742-768555

1. Photosynthetic/photorespiratory carbon metabolism-related enzymes, e.g., RUBISCO, pyruvate pi-dikinase, PEP carboxylase, etc.
 2. photosynthetic/photorespiratory carbon metabolism in C-3, C-4 and C-3/C-4 intermediate species
 3. C-3 and C-4 photosynthesis and photorespiration, in general
 4. Stromal protein phosphorylation
1. Plant protein complexes
 2. Plant reaction centers

1. Biochemistry
2. Transport
3. C-3, C-4, CAM
4. Gas exchange

1. Photosystem II electron transport
2. Water-oxidation process in photosynthesis: roles of manganese and chloride
3. Role of bicarbonate in photosystem II
4. Primary photochemistry, and excitation energy transfer
5. Chlorophyll *a* fluorescence, NMR, ESR and other biophysical techniques

1. Primary photochemistry
2. Bacterial photosynthesis
3. Time-resolved laser spectroscopy
4. Photophysics and photochemistry of model systems

1. Photosystem II
2. Chlorophyll fluorescence
3. Regulation of thylakoid function
4. Interaction between carbon assimilation and light reactions

Prof. Sakae Katoh

Pure & Appl. Science
University of Tokyo
Meguru-Ku, Komaba 3-8-1
Tokyo - 153
JAPAN

Phone: 03-467-1171

Dr. A.J. Keys

Department of Biochemistry
Rothamsted Experimental
Station
Harpden Herts.-AL5 2JQ
UNITED KINGDOM

Phone: 05827-63133, ext 2266

Dr. V.V. Klimov

Inst. of Soil Science
and Photosynthesis
USSR Academy of Sciences
Pushchino, Moscow
Region - 142292
USSR

Telex: 412615 BIO SV

Prof. Manfred Kluge

Inst. für Botanik
Fachber. Biol. 10
Technische Hochschule
Darmstadt
Schnittspahnst. 3-5
D-6100 Darmstadt
WEST GERMANY

Phone: 06151-163805/165400

Prof. David B. Knaff

Dept. of Chemistry and
Biochemistry
Box 4260
Texas Tech. University
Lubbock, TX 79409
USA

Phone: 806-742-3055/3067

Prof. G. Heinrich Krause

Botanisches Institut
der Universität Düsseldorf
Universitätsstrasse 1
D-400 Düsseldorf 1
WEST GERMANY

Phone: 0211-3112527

1. Molecular organization of photosystem I and photosystem II reaction center complexes
2. Kinetics and composition of photosynthetic electron transport
3. Chlorophyll-protein complexes

1. Ribulose-bisphosphate carboxylase/oxygenase- properties, regulation, and molecular biology
2. Photorespiration and related metabolism
3. Photosynthetic nitrogen assimilation
4. Photosynthetic carbon metabolism

1. Photosystem II: reaction centers; charge separation; stabilization; inactivation; electron carriers; polypeptides
2. Oxygen evolution: the role of manganese and other ions; reactivation; isolation of oxygen-evolving particles; mechanism of water oxidation
3. Chlorophyll a (variable) fluorescence

1. CAM
2. C-4 photosynthesis
3. Carbon flow pathways in photosynthesis
4. Photorespiration
5. Environmental photosynthesis
6. Symbiosis

1. Secondary electron transport in photosynthetic bacteria (cytochromes, iron-sulfur proteins, etc.)
2. Active transport
3. Photosynthetic nitrogen assimilation (nitrite reductase, glutamate synthase, etc.)

1. Effects of stress on photosynthesis
2. Application of chlorophyll fluorescence in plant physiology research

Dr. Jean Lavorel

Assn. Recherche en
Bioéng. Solaire
Ctr. d'études Ncleaires
Cadarache
Bâtiment 161
13108 St. Paul-Lez-Durance
Cedex
FRANCE

Phone: 042-254580

Dr. R.C. Leegood

Research Inst. for
Photosynthesis
University of Sheffield
26 Taptonville Road
Sheffield S10 5BR
UNITED KINGDOM

Phone: 0742-768555, ext. 6403

Prof. Hartmut K. Lichtenthaler

Botanisches Inst.
der Universität (TH)
II. Lehrstuhl Pflanzenphysiologie
Kaiserstrasse 12
D-7500 Karlsruhe 1
WEST GERMANY

Phone: 0721-6083833/32

Dr. René Marcelle

(chief editor)
Lab. of Plant Physiology
Research Station of Gorsem
Brede Akker 3
B-3800 Sint Truiden
BELGIUM

Phone: 011-682019

Dr. Paul Mathis

Service de Biophysique
Département de Biologie
Centre d'Etudes
Nucleaires, Saclay
91191 Gif-sur-Yvette Cedex
FRANCE

Phone: 01-69085280

Prof. Prasanna Mohanty

School of Life Sciences
Jawaharlal Nehru University
New Mehrauli Road
New Delhi - 110067
INDIA

Phone: 11-650016

1. Photosystem II: fluorescence and luminescence
2. Photosystem II: O₂ evolution; active O₂-evolving system
3. Modeling, computations (in general)

1. Environmental factors affecting carbon assimilation
2. Photosynthetic enzymes
3. C-4 photosynthesis
4. Regulation of metabolism

1. Chloroplast biogenesis: structure, light adaptation; herbicide action
2. Photosynthetic pigments: biosynthesis; accumulation; degradation
3. Pigment-protein complexes: composition; spectral characteristics
4. Photosynthesis, environment and stress

1. Physiology
2. Control of photosynthesis (biological and environmental)
3. Crassulacean acid metabolism (CAM)

1. Photosystem I
2. Primary photochemistry

1. Electron transport
2. Stress and aging
3. Cyanobacterial photosynthesis: energy transfer
4. Metal ions and primary processes of photosynthesis

Prof. John E. Mullet

Dept. of Biochemistry
and Biophysics
Texas A & M University
College Station, TX 77843
USA

Phone: 409-845-0722

Dr. Norio Murata

Dept. of Regulation Biology
National Inst. for Basic
Biology
Myodijicho
Okazaki-444
JAPAN

Phone: 0564-53-7332

Prof. Gunnar Öquist

Dept. of Plant Physiology
University of Umeå
S-90187 Umeå
SWEDEN

Phone: 090-16-54-16;
INT: +46-8-16-54-16

Dr. William Ogren

United States Department
of Agriculture
Agriculture Research Service
1102 S. Goodwin Ave.
Urbana, IL 61801
USA

Phone: 217-333-4370

Prof. Donald Ort

(associate editor)
Dept. of Plant Biology/USDA-ARS
University of Illinois
289 Morrill Hall
505 S. Goodwin Ave.
Urbana, IL 61801
USA

Phone: 217-333-2093

1. Chloroplast molecular biology
2. Chloroplast biogenesis
3. Thylakoid proteins
4. Protein synthesis; translational control;
terpenoid biochemistry

1. Oxygen evolving complex: biochemistry
2. Membrane biochemistry
3. Low-temperature effects
4. Photosynthetic pigments

1. Physiology
2. Environmental stress and adaptation in
photosynthesis
3. Chlorophyll fluorescence in plant
physiology

1. Photorespiration
2. Ribulose-bis-phosphate
carboxylase/oxygenase
3. Carbon metabolism

1. Energy coupling;
photophosphorylation
2. Electron transport
3. Chilling stress
4. Whole plant photosynthesis: gas
exchange, etc.

Prof. Gernot Renger

Max Volmer Inst. for
Biophysical and Physical
Chemistry
Technical University
Strasse des 17 Juni-135
D-1000 Berlin-12
WEST GERMANY

Phone: 030-314-2794

1. Electron transport; oxygen evolution
2. Primary photochemistry
3. Chlorophyll *a* fluorescence
4. Spectroscopy: absorption

Dr. Simon P. Robinson

Div. Horticultural Research
CSIRO
GPO Box 350
Adelaide - 5001
AUSTRALIA

Phone: 08-2749259

1. Carbon metabolism
2. Metabolite transport
3. Ionic relations
4. Methodology of isolating organelles

Prof. Dr. P.A. Siegenthaler

Lab. de Physiol. Végétale
et Biochimie
Université de Neuchâtel
20, Ch de Chantemerle
CH-2000 Neuchâtel
SWITZERLAND

Phone: 038-256434

1. Lipids in thylakoid membranes
2. Proteins in chloroplast envelopes
3. Architecture of chloroplast membranes

Dr. C.R. Somerville

MSU-DOE Plant Research Lab.
Plant Biology Building
Michigan State University
East Lansing, MI 48824-1312
USA

Phone: 517-355-5159

1. Molecular biology of photosynthesis
2. Genetics of photosynthesis

Prof. D.A. Walker

(associate editor)
Research Inst. of
Photosynthesis
The University of Sheffield
Sheffield S10 2TN
UNITED KINGDOM

Phone: 0742-768555 ext. 6401

1. Internal factors limiting photosynthesis
2. Photosynthetic carbon metabolism
3. Methodology: organelles; multiple measurements of gas exchange, fluorescence, etc.
4. Whole plant photosynthesis

Prof. A. Wild

Inst. für Allgemein Botanik
der Johannes Gutenberg-
Universität
Saarstr. 21
6500-Mainz
WEST GERMANY

Phone: 06131-392688

1. Environmental influences on photosynthesis
2. Herbicides
3. Photosynthesis under stress conditions
4. The architecture of photosynthetic membranes
5. Photosynthetic electron transport
6. Nitrogen metabolism

Prof. M.R. Wolwertz

Dépt. Botanique
 Université de Liège
 Sart-Tilman
 B-4000 Liège
 BELGIUM

Phone: 041-561862

Prof. Charles F. Yocum

Dept. of Biology
 The University of Michigan
 Ann Arbor, MI 48109-1048
 USA

Phone: 313-764-9543/7427

Prof. Barbara Zilinskas

Dept. of Biochemistry and
 Microbiology
 Lipman Hall, Cook College
 Box 231
 Rutgers University
 New Brunswick, NJ 08903
 USA

Phone: 201-932-9563

Representative areas

Photochemistry and photophysics

Pigments and pigment-protein
 complexes including reaction
 centers

Electron transport

Oxygen evolution

1. Molecular development of photosynthetic apparatus; structure and molecular organization of the photosynthetic membrane
2. Protochlorophyllide photoreduction and plant greening; biosynthesis of chlorophyll and chlorophyll-proteins
3. Structure of molecular complexes
4. Chloroplast metabolism; photosynthetic activity
5. Photosynthetic electron transport

1. Biochemistry/polypeptides associated with photosystem II and oxygen evolution activity
2. Electron transport and inhibitors
3. Photophosphorylation

1. Pigment/protein complexes; phycobilisomes
2. Thylakoid structure/function relationships
3. Molecular biology of the chloroplast
4. Electron transport
5. Energy transfer

Partial list of editors

J. Aghion, J. Amesz, J. Barber, R.E. Blankenship, Govindjee, D. Holten, V.V. Klimov, J. Lavorel, P. Mathis, G. Renger, B. Zilinskas

P. Böger, D.A. Bryant, J. Duranton, Govindjee, S. Katoh, J.E. Mullet, N. Murata, M.R. Wolwertz, B. Zilinskas

J. Amesz, J. Barber, R.E. Blankenship, P. Böger, G. Brudvig, Govindjee, S. Katoh, V.V. Klimov, D. Knaff, J. Lavorel, P. Mathis, P. Mohanty, N. Murata, D. Ort, G. Renger, M.R. Wolwertz, C.F. Yocum, B. Zilinskas

G. Brudvig, Govindjee, V. Klimov, J. Lavorel, N. Murata, C.F. Yocum

Membrane structure and function	J. Barber, P. Horton, S. Katoh, J. Mullet, N. Murata, D. Ort, P.A. Siegenthaler, A. Wild, M.R. Wolwertz, B. Zilinskas
Phosphorylation	J. Aghion, J. Barber, D. Ort, C.F. Yocum, R. Chollet
Carbon assimilation (C3, C4 photosynthesis CAM)	G. Bowes, J.W. Bradbeer, D.T. Canvin, R. Chollet G. Edwards, A.J. Keys, M. Kluge, R.C. Leegood, R. Marcelle, W. Ogren, S.P. Robinson
Photorespiration	G. Bowes, D.T. Canvin, R. Chollet, A.J. Keys, M. Kluge, R.C. Leegood, W. Ogren
Chloroplast biogenesis and development	J.W. Bradbeer, H.K. Lichtenthaler, J.E. Mullet, M.R. Wolwertz
Molecular genetics and molecular biology	H.J. Bohnert, W. Bottomley, D.A. Bryant, A.J. Keys, J.E. Mullet, C.R. Somerville, B. Zilinskas
Cyanobacterial photosynthesis Bacterial photosynthesis	D.A. Bryant, P. Mohanty, B. Zilinskas J. Amesz, R. Blankenship, D.A. Bryant, D. Holten, D. Knaff
Whole plant photosynthesis	D.T. Canvin, G. Edwards, P. Horton, R.C. Leegood, R. Marcelle, G. Öquist, D. Ort, W. Ogren, D. Walker
Stress and photosynthesis	H.J. Bohnert, Govindjee, G.H. Krause, M. Kluge, R.C. Leegood, R. Marcelle, P. Mohanty, N. Murata, G. Öquist, D. Ort, D.A. Walker, A. Wild