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.*

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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. 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
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2. Molecular genetics of photosynthesis

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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

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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

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

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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.*
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1. Photosynthetic/photorespiratory carbon metabolism-related enzymes, e.g., RUBISCO, pyrurate 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

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1. Plant protein complexes
2. Plant reaction centers

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

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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

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

Prof. Peter Horton
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1. Photosystem II
2. Chlorophyll fluorescence
3. Regulation of thylakoid function
4. Interaction between carbon assimilation and light reactions
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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
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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
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.
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1. Electron transport; oxygen evoluton  
2. Primary photochemistry  
3. Chlorophyll a fluorescence  
4. Spectroscopy; absorption

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

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

1. Molecular biology of photosynthesis  
2. Genetics of photosynthesis

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

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
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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

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

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

Representative areas

Photochemistry and photophysics

Pigments and pigment-protein complexes including reaction centers

Electron transport

Oxygen evolution

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


G. Brudvig, Govindjee, V. Klimov, J. Lavorel, N. Murata, C.F. Yocum
Membrane structure and function  

Phosphorylation  
J. Aghion, J. Barber, D. Ort, C.F. Yocum, R. Chollet

Carbon assimilation  
(C3, C4 photosynthesis CAM)

Photorespiration  

Chloroplast biogenesis and development  
J.W. Bradbeer, H.K. Lichtenthaler, J.E. Mullet, M.R. Wolwertz

Molecular genetics and molecular biology  

Cyanobacterial photosynthesis  
D.A. Bryant, P. Mohanty, B. Zilinskas

Bacterial photosynthesis  
J. Amesz, R. Blankenship, D.A. Bryant, D. Holten, D. Knaff

Whole plant photosynthesis  

Stress and photosynthesis  