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May 2009

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3. **Introduction**—This is a BRIEF description of the purpose of the investigation and of pertinent background literature specific to the research project. It should not be a general review of the field. It should take into consideration those who are not experts in the particular area.

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Journal articles:

Harrison, W. G. 1973. Nitrate reductase activity during a dinoflagellate bloom. *Limnol. Oceanogr.* 18:457–65.

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Contribution to a book:

Droop, M. R. 1974. Heterotrophy of carbon. In Stewart, W. D. P. & Pierce, C. E. [Eds.] *Algal Physiology and Biochemistry*. Blackwell, Oxford, UK, pp. 530–59.

Book:

Smith, G. M. 1950. *The Fresh-Water Algae of the United States*. 2nd ed. McGraw-Hill Book Co., New York, 719 pp.

Thesis:

Sanderson, B. L. 1998. Factors regulating water clarity in northern Wisconsin lakes. Ph.D. dissertation, University of Wisconsin, Madison, 227 pp.

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ABBREVIATIONS TO BE USED WITHOUT FULL SPELLING:

ADP	adenosine 5'-diphosphate
AFDM	ash-free dry mass
ATP	adenosine 5'-triphosphate

B.P.	before present
b.p.	boiling point
BSA	bovine serum albumin
cAMP or cyclic AMP	adenosine 3',5'-cyclic monophosphate
cDNA	complementary deoxyribonucleic acid
chl	chlorophyll
DMSO	dimethyl sulfoxide
DNA	deoxyribonucleic acid
DNase	deoxyribonuclease
EDTA	ethylenediaminetetraacetic acid
EGTA	ethylene glycol-bis(2-aminoethyl ether) N,N,N',N'-tetraacetic acid
ELISA	enzyme-linked immunosorbent assay
EM	electron microscopy
FAD (FADH ₂)	flavin adenine dinucleotide (reduced form)
GTP	guanosine triphosphate
HAB	harmful algal bloom
HPLC	high-performance liquid chromatography
LM	light microscopy
LSU	large subunit
mRNA	messenger ribonucleic acid
MTOC	microtubule-organizing center
NAD ⁺ (NADH)	nicotinamide adenine dinucleotide (reduced form)
NADP ⁺ (NADPH)	nicotinamide adenine dinucleotide phosphate (reduced form)
NMR	nuclear magnetic resonance
P _i	inorganic phosphate
PBS	phosphate-buffered saline
PAGE	polyacrylamide gel electrophoresis
PAR	photosynthetically active radiation
PCR	polymerase chain reaction
PSI	photosystem I
PSII	photosystem II
rDNA	ribosomal deoxyribonucleic acid
RFLP	restriction fragment length polymorphism
RIA	radioimmunoassay
RNA	ribonucleic acid
RNase	ribonuclease
rRNA	ribosomal ribonucleic acid
RUBISCO	ribulose-1,5 bisphosphate carboxylase oxygenase
SCUBA	self-contained underwater breathing apparatus
SDS	sodium dodecyl sulfate
SEM	scanning electron microscopy
SSU	small subunit
TEM	transmission electron microscopy

TLC
Tris
tRNA
UV

thin-layer chromatography
tris(hydroxymethyl)aminomethane
transfer ribonucleic acid
ultraviolet