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Interaction
Strategies

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Algal symbioses form a continuum, each interaction being a function of the evolutionary history of the separate 'players' as well as the partnership. Each algal symbiosis is unique; although symbioses may be described, they cannot necessarily be categorized.

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Algal Symbiosis: A
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Interaction Strategies
by Lynda J. Goff,
Paperback | Barnes &
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1983. Few groups of
organisms have been
more successful in
forming intimate
symbioses with other
organisms than Our
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[Lynda J Goff;]

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While it was originally believed that the symbiosis was mutualistic, it is now known that the coral-algal symbiosis spans the continuum from parasitism to mutualism (Lesser et al., 2013). Clade A and D are generally considered more parasitic while clade C is known as more mutualistic based on characteristics of carbon fixation and

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translocation (Stat et
al., 2008 ; Cantin et al.,
2009).

The engine of the reef: photobiology of the coral-algal ...

Symbiotic marine
algae: taxonomy and
biological fitness. In:
Symbiosis in the Sea
pp 245-262 (Edited by
Vernberg, W.B.)
University of South
Carolina Press,
Columbia, S.C. TAYLOR
D.L. 1983. The coral-

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algal symbiosis. In:

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interacton strategies

pp 19-35 (Edited by

Goff L.J.) Cambridge

University Press, New

York.

Symbioses between aquatic invertebrates and algae ...

Algal-bacterial

interactions cover the

whole range of

symbiotic relationships

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which are deemed

possible. Algae,
heterotrophic bacteria
and archaea are the
primary producers and
decomposers,
respectively, making
them the structural
pillars of the
ecosystem and its
foremost functional
entities.

**Algae-bacteria
interactions:
Evolution, ecology
and ...**

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Symbioses are widespread in nature and occur along a continuum from parasitism to mutualism.

Coral-dinoflagellate symbioses are defined as mutualistic because both partners receive benefit from the association via the exchange of nutrients.

This successful interaction underpins the growth and formation of coral

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reefs.

Interaction

**Functional diversity
in**

**coral-dinoflagellate
symbiosis | PNAS**

(1983a) in Algal
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Interaction Strategies,
The radiolarian
symbiosis, ed Goff L
(Cambridge Univ Press,
Cambridge, UK), pp 69
– 89. Falkowski PG , et
al.

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An original mode of symbiosis in open ocean plankton | PNAS

Despite these physiological studies, structural and developmental aspects of this symbiosis remain unclear. Early attempts to identify or culture the algae from oviducts of gravid female salamanders failed, discouraging further investigations into the anatomical

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associations between host and symbiont (8, 15). All previous research describes the relationship between the algae and embryo as an ...

Intracellular invasion of green algae in a salamander host

on its own merits. Extending along a dynamic continuum from antago-nistic to cooperative and often

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involving elements of both antagonism and mutualism, symbioses involve pathogens, commensals, and mutualists interacting in myriad ways over the evolutionary history of the involved “partners.” In this first of 2 parts, some remarkable examples

Evolving together: the biology of symbiosis, part 1

A variety of successful

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Introduction Of
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invertebrate-algal
symbioses exist
including those
between marine
invertebrates and the
dinoflagellate
Symbiodinium which
includes (a)
scleractinian corals and
(b) the giant clams
(Tridacna sp.).

Metabolic interactions between algal symbionts and ...

Symbiotic relationships

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can be broken into
three major types.

However, it is
important to note that
these are artificial
distinctions. In reality,
symbiotic relationships
exist on a continuum,
and one type of
relationship might
transition to another
type if conditions
change.

Symbiosis - RationalWiki

Within these biotic

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interactions, I focus on
the symbiosis

continuum. I am

fascinated by and

drawn to the often

overlooked,

underappreciated, and

yet integral critters of

the world around us -

lichens, fungi, slime

molds. This fascination

extends beyond my

study organisms to

ants, bryophytes,

collembolans, mites,

algae, tardigrades, and

even

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Current Research | Symbiosiscontinuum

Breakdown of the coral-algae symbiosis: towards formalising a linkage between warm-water bleaching thresholds and the growth rate of the intracellular zooxanthellae. Biogeosciences. 2012;9:8111-39.

**Climate change
promotes parasitism**

Acces PDF Algal Symbiosis A Continuum Of **in a coral symbiosis** Interaction

Algae (/ ' æ l dʒ i, ' æ l g i /; singular alga / ' æ l g ə /) is an informal term for a large and diverse group of photosynthetic eukaryotic organisms. It is a polyphyletic grouping, including species from multiple distinct clades. Included organisms range from unicellular microalgae, such as Chlorella and the diatoms, to

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multicellular forms,
such as the giant kelp,
a large brown alga ...

Algae - Wikipedia

Dissolved organic matter (DOM) and inorganic nutrients may affect microbial communities in streams, but little is known about the impact of these factors on specific taxa within bacterial assemblages in biofilms. In this study, nutrient

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diffusing artificial

substrates were used
to examine bacterial
responses to DOM (i.e.,
glucose, leaf leachate,
and algal exudates)
and inorganic nutrients

...

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