



MONOCULUS Copepod Newsletter

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Editor's Notes

The following list of references has been compiled from various sources on the Web, including several search services, specialized databases, and journal and author homepages, in addition to the journals and reprints themselves. If you note inaccuracies or omissions, please let me know and the correct version will appear in the next number of *MONOCULUS*. Grateful thanks to the donors of

reprints to the *Monoculus* and Wilson libraries.

The year of publication as given refers to the year in which the printed version of the journal was distributed, and not the year when it first became available online, if these are different. This supplement will be posted in pdf format on the WAC website.

Apostol Apostolov, Mantha Gopikrishna, Y. Ranga Reddy, and Lusha Tronstad graciously provided literature references and, in some cases, reprints. Other colleagues have donated reprints of articles that were listed in previous numbers, to the *Monoculus* and Wilson libraries.

Particular thanks to Maria Hołyńska for help with locating publication data and translating references in Hungarian. Also to Michael F. Marmor and Elsevier for permission to reproduce the poem "The Eye's Mind." Translations of titles in languages other than English (if not given by the source) are provided by the management.

— Jan Reid
Martinsville, U.S.A.

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Box jellyfish (*Tripedalia cystophora*), showing two of its four eye clusters (courtesy of Anders Garm).

The Eye's Mind

(with a tip of the hat to Ivan Schwab and Alfredo Sadun*)

By Michael F. Marmor

We've all learned how the embryonic
Neural tube sprouts little shoots
That grow out to become the eyes
—At least the retinas—which suits
The neuroscientists who'd fain
Say the eye's an out-pouching of the brain.

Implicit in this argument,
Is that the course of evolution,
First devised a CNS,
And then the eye as a solution
To the problem of "awareness"
(Which most creatures need, in fairness).

Or with more sophistication,
One could argue that the simple
Pigment spots that sensed a light,
(From underneath a dermal dimple),
Never could be truly "eyes"
Until a brain would make them wise!

But here we have a grave dilemma,
Somewhat like the "egg or chicken:"
Which came first is not so obvious.
Or should we say, "the plot doth thicken."
Did early brains develop vision,
Or early eyes evolve cohesion?

Long before a "CNS"
Was evolutionarily enhanced,
It turns out that the eye evolved
To levels amazingly advanced
In creatures like the copepod,
Box jellyfish, and others odd.

In jellyfish, as an example,
Camera eyes have lens and focus!
The animals will dodge obstruction
(And that's the truth, not hocus pocus).
But though these jellyfish have eyes,
They cannot really "recognize."

Their tentacles respond to nerves
That simply circle 'round the dome,
But these are purely superficial
Nerves that lack a central home.
For all these nerves to be entrained,
The eyes would need evolve a brain!

And therein lies the message clear:
The drive for central organization
In large measure was the need
For *ocular* coordination.
It really was the *retina's* wisdom
To create a central nervous system.

So when you next hear lectures on
Ocular development,
That claim the eye is part of brain,
Please stand up and raise dissent:
For evolution tells us why
The brain's an *in*-pouching of the eye!

*Schwab, I.R. & A.A. Sadun. 2007. An out-pouching of the eye? *British Journal of Ophthalmology* 91(9):1107-1108.

This poem was published in the *Survey of Ophthalmology*, Vol. 53, Michael F. Marmor, "The Eye's Mind," Pages 306-307, © Elsevier (2008).

Recent Publications on Copepoda

Compiled by Jan Reid and Chad Walter

Older publications that were recently listed in the "World of Copepoda" bibliographic database (C. B. Wilson Library) are included. Please advise us if you learn of publications (including theses and "gray literature"), on any aspect of the Copepoda, that are not held in the Monoculus Library or listed in the "World of Copepoda" database.

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