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long-missing pieces of the cytoplasmic-gel puzzle is structured water (watch his University of Washington Annual Faculty Lecture on structured water). Pollack argues that much of the water within cells is not mere "bulk water" (random molecules in liquid state).

**Cells, Gels and the  
Engines of Life:**

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**Gerald H. Pollack ...**

This was a naive oversight, and one that has been resoundingly remedied by a recent publication by Dr. Gerald H Pollack, grandly entitled 'Cells, Gels, and the Engines of Life'.

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Cell Function. It challenges the current wisdom of cell function, and presents a new, simpler approach to fundamental processes such as movement, transport, division, and communication, based on sound physical principles. The book is profusely illustrated with many color figures. It is written for the non-expert in an accessible, often humorous style.

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The real mechanism is the alternating structuring and de-structuring of water inside the gels. Phase transitions of gels can explain many of the cell actions and functions such as secretion, transport, movement, muscle contraction and even cell division. When cell

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Life  
division goes awry, the  
result is cancer.

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Cells, Gels and the  
Engines of Life: A New,  
Unifying Approach to  
Cell Function was  
honored with two  
awards in 2003.

“Distinguished Award,”  
awarded by the Puget  
Sound Society of  
Technical

Communication. Cells,  
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Gels also received that society's, "Best in Show" award. "A 304 page preface to the future of cell biology"

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@inproceedings{Pollack2001CellsGA,  
title={Cells, Gels and  
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to Cell Function},  
author={Gerald H.  
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} Gerald H. Pollack The publisher's hype on the covers of this book would appear to make criticism by mere mortals seem perverse! It is ...

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Pollack, G.H. Cells, gels and the engines of life.

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(A new, unifying  
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function) 1st edn.

While some of the  
content covers  
processes peculiar to  
the animal kingdom  
(muscle contraction  
and conduction of  
nerve impulses),  
ubiquitous cellular and  
sub-cellular processes  
are also described, the  
implications of which  
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Much of cell  
metabolism is guided  
and controlled in rate  
by the speed with  
which molecules that  
have to interact  
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This book challenges the current wisdom of how cells work. It emphasizes the role of cell water and the gel-like nature of the cell,



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building on these features to explore the mechanisms of communication, transport, contraction, division, and other essential cell functions. Written for the non-expert, the book is profound enough for biologists, chemists, physicists and engineers.--From ...

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speciÿcally propose  
that these  
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