



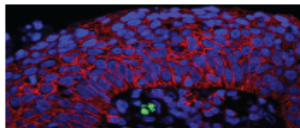
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Sun-free photosynthesis?

Bacteria may live off thermal radiation from deep-sea hydrothermal vents

[Home](#) > [Current Issue](#) > vol. 102 no. 26 > J. Thomas Beatty, 9306–9310, doi: 10.1073/pnas.0503674102



An obligately photosynthetic bacterial anaerobe from a deep-sea hydrothermal vent

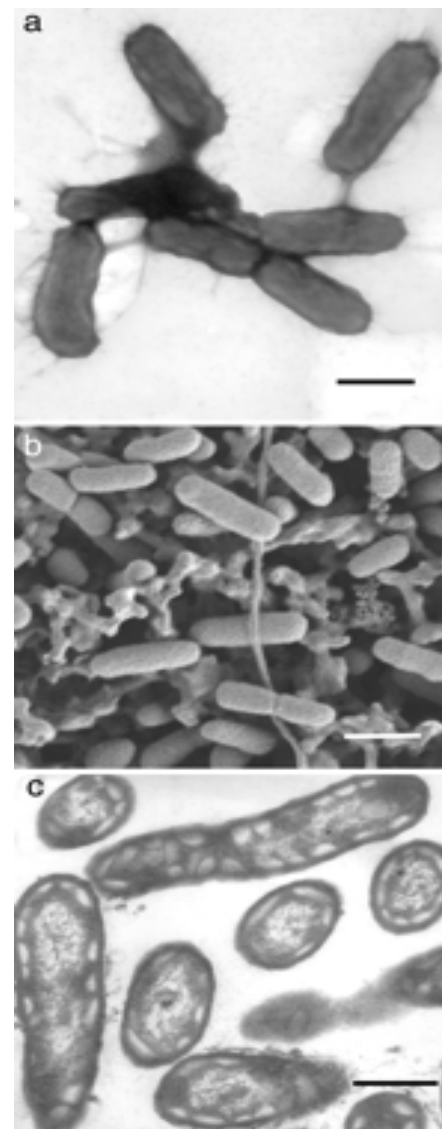
J. Thomas Beatty ^{*}, [†], Jörg Overmann [‡], Michael T. Lince [§], Ann K. Manske [‡], Andrew S. Lang ^{*}, [¶],

Robert E. Blankenship [§], Cindy L. Van Dover ^{||}, Tracey A. Martinson [¶], and F. Gerald Plumley [¶], ^{**}

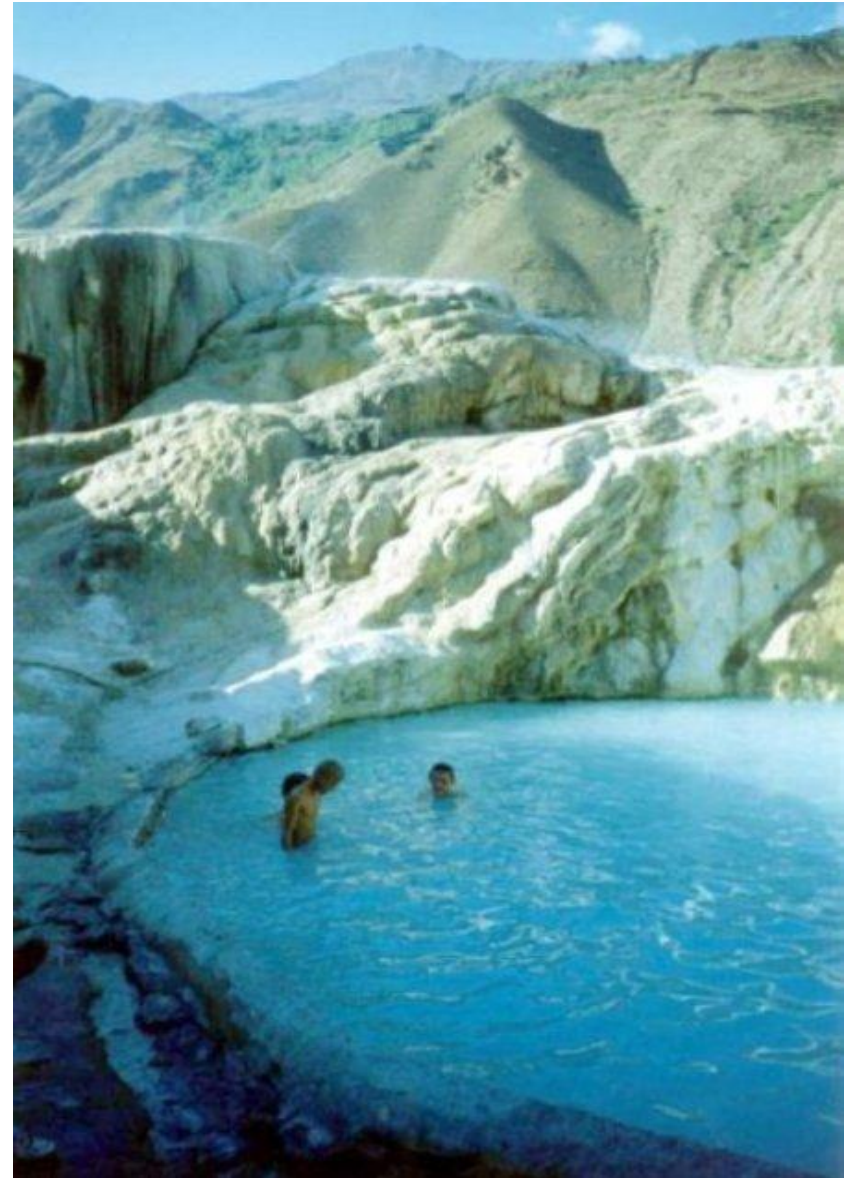
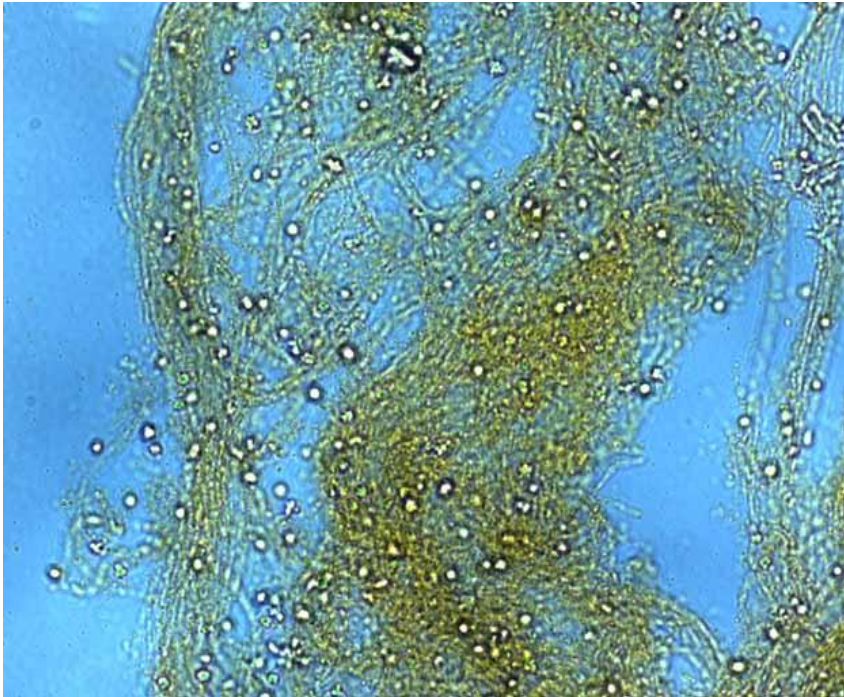
[Author Affiliations](#) [⚙]

Communicated by Bob B. Buchanan, University of California, Berkeley, CA, May 3, 2005 (received for review March 3, 2005)

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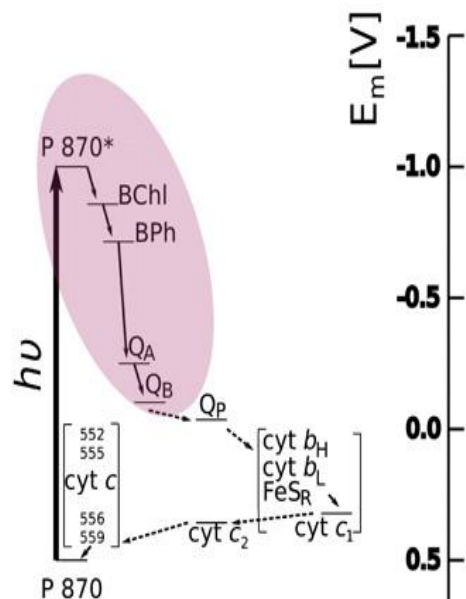
Зеленые несерные бактерии



Type II RC

Type I RC

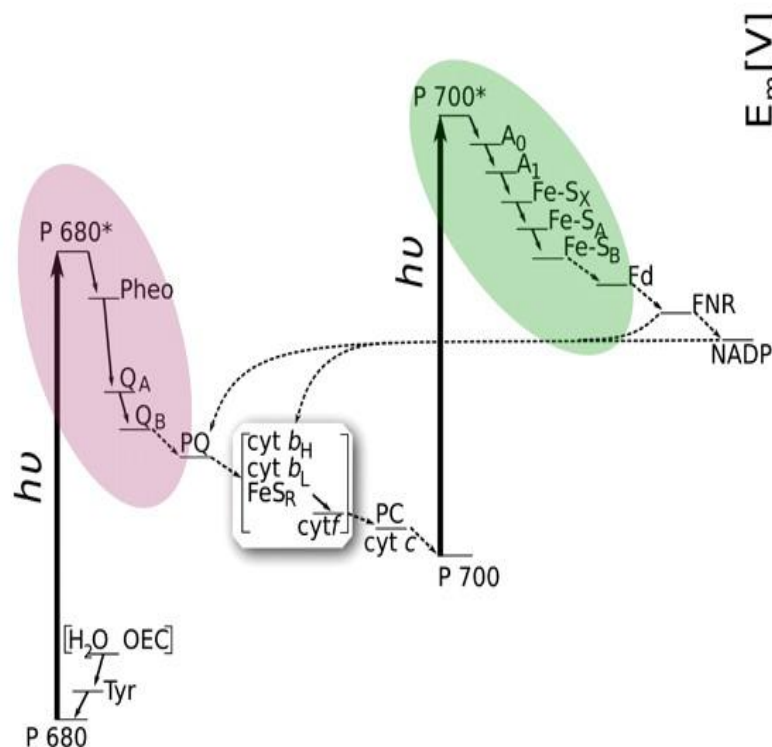
purple bacteria



Q-type RC

bc₁ complex

oxygenic phototrophs

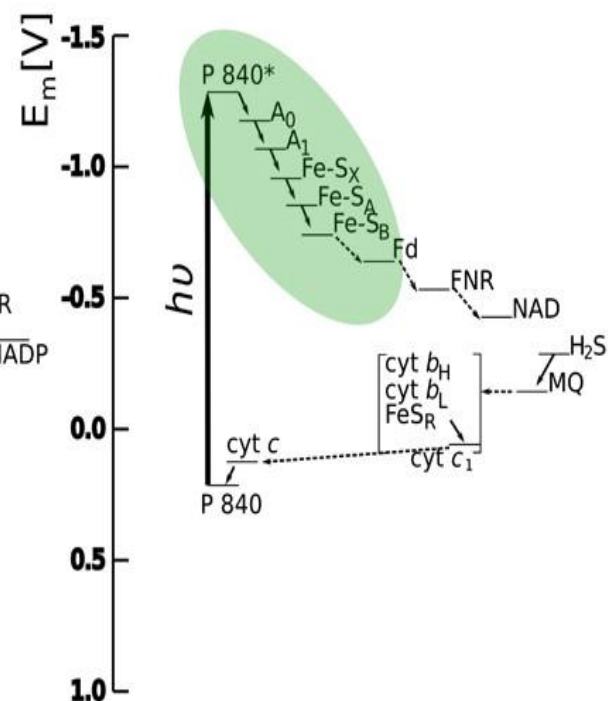


Q-type RC

b₆f complex

FeS-type RC

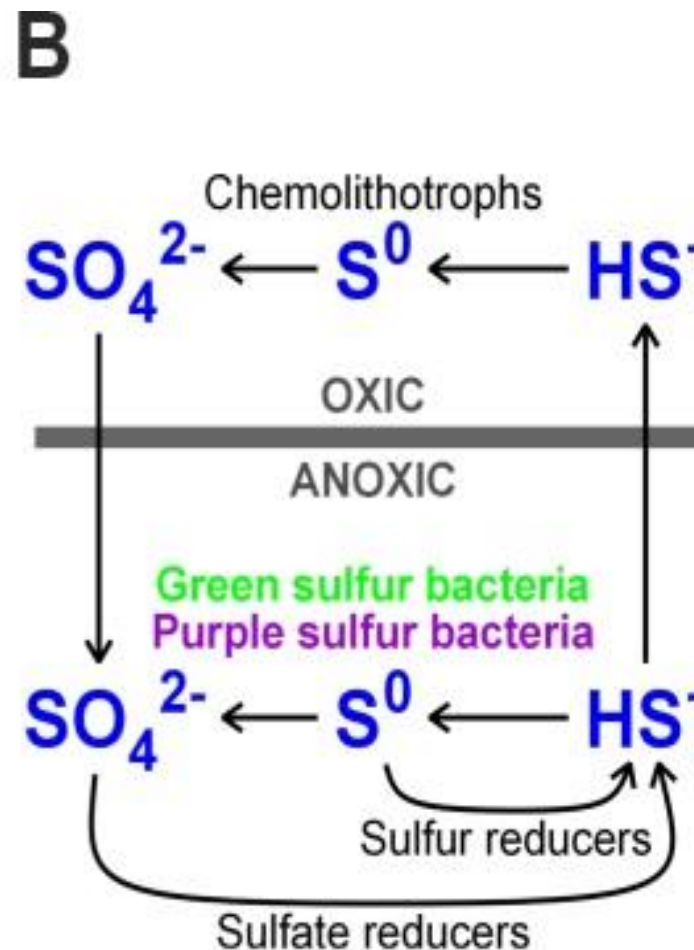
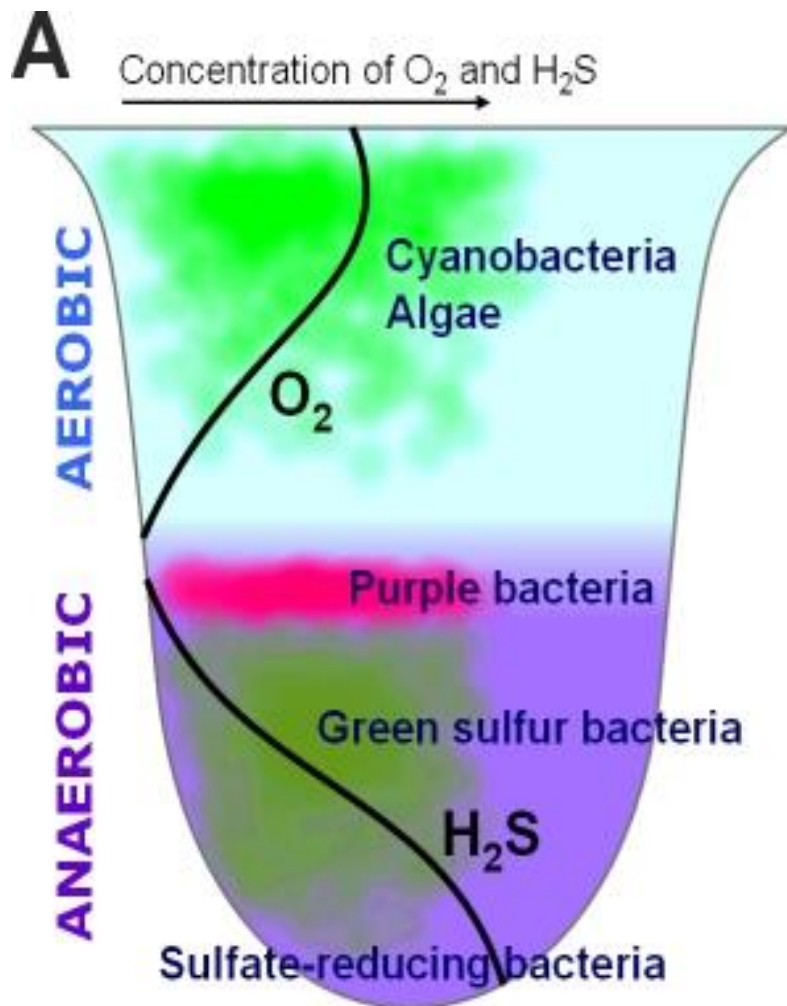
green sulfur bacteria



FeS-type RC

bc₁ complex

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