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## Bacterial ancestors

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Earlier studies of ribosomal RNA (rRNA) sequences have concluded that the oldest living organisms were *hyperthermophilic*. In the May 16 *Nature*, Céline Brochier and Hervé Philippe from the *Université Pierre et Marie Curie* in Paris, France, report a re-analysis of bacterial phylogeny that challenges this dogma (*Nature* 2002, **417**:244). It is widely accepted that rRNA sequences present a useful tool for constructing phylogenetic trees. But Brochier and Philippe claim that these data should be approached with caution, and they have used a refined strategy that uses only conserved, slowly evolving positions. Their deduced phylogeny shows late emergence of hyperthermophiles; they suggest that the earlier conclusions were biased by artefacts related to fast-evolving positions. Brochier and Philippe found that Planctomycetales emerged at the base of the bacterial tree and suggest that "the origins of bacterial tree should be seriously reconsidered".

## References

1. Hyperthermophiles in the history of life.
2. *Nature*, [<http://www.nature.com>]
3. Université Pierre et Marie Curie , [<http://www.snv.jussieu.fr>]