

Interactive comment on “Mini-ribozymes and freezing environment: a new scenario for the early RNA world” by A. V. Vlassov

Anonymous Referee #2

Received and published: 16 January 2006

The paper addresses relevant scientific questions within the scope of BG. It presents novel data obtained with correct scientific methods and the language is fluent and precise. Furthermore the title clearly reflect the contents of the paper. Some parts of the paper must be clarified. In particular page 4 references must be added.

See details herein.

Page 4: formation with an i; "one of the biggest problem" (without s); the author must add references on the assertion that warm and wet conditions are not good conditions for RNA world.

Page 5: 50-150 nucleotides.; the range of "artificial" catalytic RNA (and not natural).

Page 6: small ribozymes could help complex reactions with the help of cofactors and co-enzymes; What about the orientation (5' -3') of the strand UUU/GAAA which is

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper

presented three lines below as GAAA/UUU; 29 nucleotides with an s.

Page 9-10: It is not clear what are the respective role of concentration effect and temperature effect.

Page 12: explain more about the respective role of moving closer effect of RNA molecules and the immobilization effect on the ice surface.

Interactive comment on Biogeosciences Discussions, 2, 1719, 2005.

BGD

2, S873–S874, 2005

Interactive
Comment

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper