Japan Geoscience Union Meeting 2012

(May 20-25 2012 at Makuhari, Chiba, Japan)

©2012. Japan Geoscience Union. All Rights Reserved.



BAO01-10

Room:202

Time:May 24 14:15-14:45

Molecular resurrection of the genes of common ancestor of all the living organisms

YAMAGISHI, Akihiko^{1*}

All the living organisms have been evolved from the common ancestor called LUCA, senancestor or Commonote. By analyzing the gene sequences or organisms it is possible to construct phylogenetic trees. By using the same technique it is possible to resurrect the gene sequence of the ancestors. The resurrected gene sequence can be constructed, expressed in E. coli and the product purified. I will report the results of the Commonote as well as the common ancestors of Bacteria and Archaea.

Keywords: Common ancestor, Commonote, LUCA, Protein, thermostability

¹Depart. Mol. Biol., Tokyo Univ. Pharm. Life Scie.