

From: Friedemann Freund <friedemann.t.freund@nasa.gov>

Subject: **Your Book Chapter**

Date: March 11, 2013 9:11:08 PM PDT

To: Carl Gibson/UCSD <cgibson@ucsd.edu>

Cc: Roger N. Keeler <rnkeeler@verizon.net> , Langhoff, Stephanie R. (ARC-D) <stephanie.r.langhoff@nasa.gov>

Reply-To: friedemann.t.freund@nasa.gov

Dear Carl,

As co-editors for the Springer book in honor of Minoru Freund "***Universe of Scales: from Nanotechnology to Cosmology***" we have circulated all book chapter manuscripts for review. Your chapter has created a great deal of discussion, mostly controversial and all negative. There is a partial consensus among reviewers that your proposal to apply Fluid Mechanics to the question of condensation of matter out of the expanding plasma ball of the early universe represents an interesting and worthy contribution. In essence you propose to insert the formation of smallish (planet-sized) clumps of matter prior to the formation of galaxies in the timeline after the Big Bang.

However, your strongly worded suggestion, even insistence, on Panspermia, namely that Life came into existence at this early stage of planet-sized clumps of matter, has been met - without exception - with utmost incredulity. This aspect of Panspermia goes counter to everything that is known across many disciplines. We are also sure that Mino, who has published extensively on the nature of organic matter associated with the dust in the interstellar medium, would have strongly disagreed with your hypothesis.

Therefore, with great regret, we would like to inform you that we cannot accept your manuscript "Fluid Mechanics Explains Cosmology, Dark Matter, Dark Energy, and Life" for inclusion in the Springer book "***Universe of Scales: from Nanotechnology to Cosmology***".

Friedemann and Stephanie

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