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## Proposal for Forming an IAA Study Group

**Title of Study:**  
Integrative Physiology in Long-duration Space Flight: Nutritional Aspects

**Proposer(s):**  
Rupert Gerzer, M.D.; Martina Heer, Ph.D.

**Primary IAA Commission Preference:** Commission II: Life Sciences  
*(From Commission 1 to Commission 6)*  
**Secondary IAA Commission Interests:**  
*(From Commission 1 to Commission 6)*

**Members of Study Team**

**Chairs:** Martina Heer, Ph.D.  
**Co-Chair:** Scott Smith, Ph.D.  
**Secretary:** , Ph.D. Natalie Baecker, Ph.D

**Other Members:**  
Gianni Biolo, M.D.  
Stephane Blanc, M.D.  
Irina Larina, Ph.D.  
Joanne Lupton, Ph.D.  
Aikiko Matsumoto M.D.  
Howard Parsons, M.D. (to be confirmed)  
Peter Stein, M.D.

### Short Description of Scope of Study

**Overall Goal:** To write a position paper addressing the key issues of malnutrition during long duration space missions and the potential of nutrient supplementation/nutraceuticals to prevent microgravity and radiation induced risks for long-duration space flight.

**Intermediate Goals:** Identify the potential effects; review the literature; propose presentations at scientific meetings (e.g. Fukuoka, Valencia,... ); hold study group meetings at these conferences; draft the position paper.

**Methodology:** Presentations at IAA and other scientific meetings; study group meetings at these scientific conferences; e-mail communications.

**Time Line:** Three years.

**Final Product (Report, Publication, etc.):** A publishable quality position paper summarizing the area and making recommendations for future research and counter-measures.

**Target Community:** IAA, space agencies, space life sciences community, aerospace industry, scientific community in general.

**Support Needed:** Space on program at IAA-sponsored scientific conferences; meeting room at such IAA conferences; waiver of study group member registration fees at IAA conferences; travel expenses for 1-2 study group members to attend such IAA conferences; funds to support one face-to-face meeting per year of study group members; clerical support to write the position paper.

**Potential Sponsors:** IAA; space agencies (e.g., NASA, ESA, CSA, Russian Space Agency, Japanese Space Agency).

*To be returned to IAA Secretariat Paris fax: 33 1 47 23 82 16 email: sgeneral@iaa.net.org*

**Date:** 2/08/05

**Signature:** Martina Heer, Ph.D.

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