

## Proposal for Forming an IAA Study Group SG 2.9

**Title of Study: International Standards for Bed Rest Studies**

**Proposer(s): P. Sundblad**

*(Must be member(s) of the Academy)*

**Primary IAA Commission Preference: Commission 2- Space Life Sciences**

*(From Commission 1 to Commission 6)*

**Secondary IAA Commission Interests:**

*(From Commission 1 to Commission 6)*

### Members of Study Team

**Chair(s): P. Sundblad, O. Orlov**

*(Must be member(s) of the Academy)*

**Secretary: D. Francisco**

**Other Members:**

*(Open to non- members of the Academy)*

M.-P. Bareille  
B. Godard  
I. Larina  
I. Kozlovskaya  
M. Heer  
P. Frings-Meuthen  
R. Gerzer  
J. Meck  
R. Cromwell  
J. McPhee  
O. Angerer  
P. Gräf  
C. Mukai

### Short Description of Scope of Study

**Overall Goal: To define and agree internationally, standard conditions and basic, standard measurements for space flight related bed rest studies.**

*(Expected scientific or practical benefit of the study group's efforts)*

**Intermediate Goals:** To exchange and analyse existing standards for bed rest studies of different agencies; identify differences and clarify rationales for them; identify approaches to standardized measurements between the agencies; through study group meetings, possibly in conjunction with IAA/IAC symposia, attempt to describe a set of standard conditions and measurements that increase comparability and overall level of quality for bed rest study results. Prepare descriptive report, as well as a "requirements checklist" to evaluate a given bed rest study against the internationally agreed standards. Present the study outcome at scientific symposia.

**Methodology:**

*(Email works, workshops, stand alone conferences, interim publications, etc.)*

**Exchange relevant existing pre-work by various agencies/entities. Further discussion by email. 2-3 dedicated study group meetings, tentatively one for general bed rest condition discussion, one for standard measurement discussion, possibly a final one to conclude on the final consensus for the standards.**

**Time Line:** Work to be performed in 2009 and 2010, with meetings once every half year as required.

*(Cannot exceed three years)*

**Final Product (Report, Publication, etc.):** A report describing internationally agreed standard conditions and standard measurements for space related bed rest studies. Annex to this, a "requirements checklist" to evaluate a given bed rest study against the internationally agreed standards. Publication foreseen in Acta Astronautica.

**Target Community:** IAA, space agencies, anyone in the space life science community who intends to perform bed rest studies.

**Support Needed:** Possibly space on program at IAA-sponsored scientific conferences; meeting room at such IAA conferences;

**Potential Sponsors:** IAA; involved space agencies.

To be returned to the IAA Secretary General Paris

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by email: [sgeneral@iaamail.org](mailto:sgeneral@iaamail.org)

**Date:**

*(No Signature required if document authenticated).*