



## 2<sup>nd</sup> STRENDA meeting

April 4 – 6, 2005

Cologne, Germany

### Results (different from proposed agenda)

#### 1) General

- **communication**

- x STRENDA forum is hardly used, preference is communication by eMail
- x important: insert all STRENDA members in To-line or CC-line in the header of each message. Subject will start with „STRENDA.....“. This will ensure that each member will be informed about discussions or comments between some members. The STRENDA phrase in the subject will draw your attention on the concerns of the commission.

#### 2) Website

- Requirements, suggestions, content
  - x needs more content,
  - x such as TiBS paper (response on request for permission by Elsevier is still pending), otherwise provision of a pre-print file
  - x final version or pre-print file of Athel's and Jannie's paper on the needs of measured data for kinetic characterization of enzymes
  - x general suggestion: why not publishing in open access journals (BMC, PLoS Biology etc.) in future to avoid copyright problems?
  - x Agendas and results from meetings
  - x checklists (Level 1 and Level 2 lists (for more details see below), invitation for comments on the checklists
  - x insert preamble for these checklists
  - x rating system for checklist points
- some design changes (backgrounds, navigation buttons etc), make design of the website clear

#### 3) checklist(s)

- discussion about Keith's checklist
- starting point for author's instructions of journals
- number of different checklists required (see below) since we generated with only one list a mixture of requirements for reporting experimental conditions and for reporting enzyme data. That's why, we created two lists on level 1 (A and B)
- some additional aspects are easy to give, some need a longer comment or link to a reference

- submission of data to databases
- a long and fruitful discussion resulted in the generation of an - at least - 3-level hierarchy:
  - ◆ level 1: parameter checklist (e.g. Keith's list as starting point, see also page(s) 8 & 9)
  - ◆ level 2: organism-related definitions of experimental conditions (see page 10)
  - ◆ level 3: requirements for systems biology (outstanding)
- proposed workflow: internal STRENDA agreement --> agreement with experts and editors --> agreement with community
- Tasks (see Time line):
  - x preambles for these checklists required (Keith, see page 11)
  - x standardized introductory letter to editors (Keith, see page 11)
  - x contact experts and editors from selected journals
  - x contact other initiatives
  - x define example standards together with one initiative
  - x eventually organization of a small symposium with invited experts to discuss about organism-related requirements and experimental conditions
  - x what are the requirements for BRENDA?
- People to be asked for advice on Level 1:

These people will be our so-called experts who may provide us with suggestions and ideas on level 1 list(s)

Keith:

Hal Dixon

Nigel Scrutton

Judith Klinman

...

Athel:

Jacques Ricard

...

Jannie

Perry Frey

Frank Vella

...

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- Editors from following journals to be asked for advice on Level 1

We have selected the „Top 10“-journals in BRENDA (corresponding to their number of citations) to get the first idea of relevant journals and their editors to contact. In parallel, the STRENDA members responsible for these contacts have been fixed.

Journals
J. Biol. Chem.
Biochim. Biophys. Acta
Biochemistry
Eur. J. Biochem.
Arch. Biochem. Biophys.
Biochem. J.
J. Bacteriol.
J. Biochem.
Phytochemistry
Plant Physiol.
Biochem. Biophys. Res. Commun.
FEBS Lett.

- Groups/people to be contacted in concerns of Level 1 and 2

*Arabidopsis, plants*

Yeast

Liver

*E.coli*

*T. brucei*

Heart/muscle

Red blood cell

Brain

- People to be contacted in concerns of standardization

Standardization of experimental conditions could be level 4. We did not discuss about this in detail because there are already sufficient tasks to be done during the next months.

Definition of standards, metabolomics

Jeremy Nicholson

Douglas Kell, UMIST

Steffen Neumann, Halle(?)

...

Enzyme reaction thermodynamics

Robert Goldberg, NIST

...

SBML language

Herbert Sauro, Caltech

...

EUSYSBIO ???

Hans Westerhoff

Transport systems

Wil Konings, Groningen  
Clifford Slayman, Yale

...

#### 4) 2<sup>nd</sup> ESCEC symposium

Date: March 18 – 23, 2006

(Sat to Wed); inclusion of the entire weekend may decrease flight expenses

Location: Jagdschloss Niederwald, Ruedesheim, Germany  
Hotel Rheinfels, St. Goar, Germany (between Mainz and Koblenz, see also here: [http://www.tagungshotel.com/hotel\\_1024676911.htm](http://www.tagungshotel.com/hotel_1024676911.htm))  
other suggestions/preferences?

- aims/tasks:
  - x presentation of STRENDA's results on standards/recommendations of reporting conditions and enzyme data
  - x discussion of these proposed determined/identified parameters and conditions
  - x invitation of other initiatives to talk about their work
  - x organization of initiatives (attempt to drive initiative toward similar directions)
  - x need for experimentalists (e.g. experimental design) as well as for theoreticians
  - x invitation of a representative from the German government/European Commission
  - x how can STRENDA help? (STRENDA as a catalyst)
  - x invitation of representatives from editorial boards (depends on reply on „Level1“ docs)
  - x ...
- proposed topics of talks. These topics are requested to be covered by speakers:
  - x progress towards standardizations in [organism](for non-Systems Biologists)
  - x progress towards standardizations for Systems Biology in [organism, needs]
  - x industry (pharmaceutical): standardization requirements for e.g. drug-development
  - x clinicians: standardization requirements for e.g. drug-effectiveness, diagnosis
  - x industry: rapid/high-throughput screening and its limitations imposed by available screenings
  - x industry/academia: standardization requirements for enzymes used in industrial processes
  - x constraints of selection of conditions
  - x „Level3“, requirements for modelling
  - x how to insert data into BRENDA and related repositories? How to use data from there and how to improve the quality of those data?