 Brazilian Network of Food Data Systems and LATINFOODS Regional Technical Compilation Committee: Food composition activities (2006-2009)

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Coordinator of Compilation Regional Technical Committee of LATINFOODS

Brazilian Network of Food Data Systems - BRASILFOODS

► Coordination: University of Sao Paulo (USP) since 1984
► Participants: 27 units with national distribution
  Researchers
  ► Universities
  ► Private and public organizations
  ► Food industries and others
► Objectives - To develop activities to:
  ► Improve
  ► data quality
  ► communication among laboratories
  ► food composition data
Activities coordinated by BRASILFOODS (2006-2009)

1. Update of Brazilian Food Composition Database (TCBA-USP)

2. Application of quality evaluation system on flavonoid data

3. Compilation and analysis of new data

1. Brazilian Food Composition Database (TCBA-USP)
(www.fcf.usp.br/tabela)

- Created in 1998 by BRASILFOODS/USP
- Was first database available on internet of Latin America
- Centralizes the information on food composition of Brazil
- Elaborated according to the rules of INFOODS (tags, names, food identification...)
- Provides data to LATINFOODS database

- Information of 1800 Brazilian foods
  (1200 - with proximal composition + 600 - compilation concluded)
1. Information of carbohydrates (by analysis of individual compounds) - 112 foods
2. Glycemic response - 41 foods

Search: pineapple, pulp and core, in nature, Ananas comosus, cv Pérola

GLYCEMIC LOAD
GLYCEMIC INDEX

A= High GI/GL
B= Medium GI/GL
C= Low GI/GL

Goal for next years

► To improve the number of individual carbohydrate (CHO) information and it glycemic response
► To change the estimation of CHO by difference to the sum of individual available carbohydrates for all foods
► To estimate the new energy value

Financially supported by the Brazilian Health Ministry
Activities coordinated by BRASILFOODS (2006-2009)

1. Update of Brazilian Food Composition Database (TCBA-USP)

2. Application of quality evaluation system on flavonoid data

3. Compilation and analysis of new data

Objectives:
1. To compile Brazilian information of literature and labs of USP
2. To evaluate the quality of flavonoids data
3. To disseminate this information through TBCA-USP

Situation:
1. Concluded
2. Concluded
3. To be concluded next year

Information on flavonoids in TBCA-USP - Application of quality evaluation system

Quality Index (QI)

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<th>QI</th>
<th>CC</th>
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<tr>
<td>75-100</td>
<td>A</td>
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<tr>
<td>50-74</td>
<td>B</td>
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<td>25-49</td>
<td>C</td>
</tr>
<tr>
<td>&lt;25</td>
<td>D</td>
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Flavonoids data of a food (Ex: mulberry)

Sampling plan

Analytical method

Sample handling

Quality control

Number of sample

Brazil

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<thead>
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Activities coordinated by BRASILFOODS/ LATINFOODS and FAO/ INFOODS (2006-2009)

1. 7th International Food Data Conference, Oct 1-3, 2007, Brazil

2. BRASILFOODS participated in the Organizing Committee of “Expert Consultation on nutritional indicators for the biodiversity 1. Food Composition”, October 20, 2007, Brazil

3. Organization of the Symposium “Food Composition and Biodiversity”. IX National Congress of the Brazilian Society for Food and Nutrition, October 25, 2007, Brazil

1. 7th International Food Data Conference - 2007

- Participation of 110 researchers (65 international and 44 Brazilian) from 40 countries
- 18 complete articles related to some of the presentations and the complete program were published (JFCA, 22(5), 2009)
55 oral presentations in the plenary sessions
87 abstracts presented as posters

LATINFOODS made an homenage to Professor Ricardo Bressani

Three generations working on Food Composition
2. BRASILFOODS participated in the Organizing Committee of “Expert Consultation on nutritional indicators for the biodiversity 1. Food Composition”, October 20, 2007, Brazil

3. Organization of the Symposium “Food Composition and Biodiversity”. IX National Congress of the Brazilian Society for Food and Nutrition, October 25, 2007, Brazil
Activities coordinated by LATINFOODS Regional Technical Compilation Committee and BRASILFOODS (2006-2009)

1. Dissemination to Latin America of the Form and Manual for compilation data – BRASILFOODS version 2009

2. Course “Compilation of food composition data”, Santiago, 2008 - FAO consultant in compilation

3. Implementation of tools to facilitate and harmonize data compilation in Latin America
   - Create a platform of relational database for LATINFOODS
   - Evaluate the possibility of using Langual for food identification
   - Participate in the translation of Langual to Portuguese

Future activities of BRASILFOODS

- Keep the analysis and compilation of new data
- Increase data on carbohydrates and bioactive compounds
- Create quality evaluation systems for other nutrients
- Continue the implementation of TBCA-USP
- Participate in the coordination of the relational database for LATINFOODS
- Continue the tests for using Langual in Latin America and its translation into Portuguese
Brazilian Food Composition Database (TBCA-USP) - BRASILFOODS

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Thank You!

8th IFDC
1-3 Oct, 2009, Bangkok, Thailand