

## Achievements of INFOODS/FAO until October 2015

### Standards and guidelines

(see <http://www.fao.org/infoods/infoods/standards-guidelines/en/> and

<http://www.fao.org/infoods/infoods/publications/books-journal-articles/en/>)

- **Component identifiers** also called tagnames. This work started at the beginning of INFOODS (Klensin et al., 1989) and regular updates are published on the INFOODS website. In 2003, a technical meeting further elaborated the tagname concept (INFOODS, 2003). Now there are over 800 INFOODS component identifiers. EuroFIR and INFOODS agreed in 2009 to collaborate and harmonize their systems of identifying food components. INFOODS and EuroFIR held a second meeting on component identifiers on 17 September 2011 as a satellite to the 9<sup>th</sup> International Food Data Conference in Norwich, UK. It was agreed to strengthen the collaboration from both sides and to further harmonize their systems of identifying food components. The report was published in 2012.
- Complementary to the component identifiers, a standard description for **food nomenclature** was published (Truswell et al., 1991)
- Also the work on **Interchange of food composition data** started early (Klensin 1992) and was further elaborated in 2003 (FAO, 2004)
- Guidelines on **compilation** of food composition data were published to assist countries to harmonize their compilation process (Rand et al., 1991)
- New **energy conversion factors** were proposed (FAO, 2003)
- FAO/INFOODS **Guidelines for Food Matching** - Version 1.2 (2012) to guide users on how to match food consumption data to foods in food composition databases/tables in order to obtain nutrient intake estimations. They were first published in 2011. Also available in French.
- FAO/INFOODS **Guidelines for Checking Food Composition Data prior to the Publication of a User Table/Database** Version 1.0 (2012) to provide a comprehensive list of internal checks to be carried out on the food composition data and documentation prior their publication in the user table or database. Also available in French.
- The FAO/INFOODS **Guidelines on Conversion among Different Units, Denominators and Expressions** Version 1.0 (2012) are a comprehensive collection of conversions done on food data in the areas of nutrition (i.e. food composition and dietary assessment) and food safety (exposure assessment). They are also useful when reporting analytical data, including their publication in scientific articles. Also available in French.
- Initiated work on the **FAO/INFOODS evaluation framework and criteria on the quality of published food composition tables and databases** (to be published in 2016)
- The Commission on Genetic Resources for Food and Agriculture (CGRFA) endorsed in 2015 the **Voluntary Guidelines for Mainstreaming Biodiversity into Policies, Programmes and National and Regional Plans of Action on Nutrition**. They are useful for countries to pledge for the inclusion of biodiversity into programmes and policies, especially in agriculture
- **Sampling Guidelines** were peer reviewed and will be published in 2015 (Pamela Pehrsson took over the leadership from Joanne Holden). It illustrates sampling examples from Latin America

## Other Publications

(see <http://www.fao.org/infoods/infoods/publications/books-journal-articles/en/>)

- **P. Puwasien, T.E. Siong, J. Kantasubrata, G. Craven, R.R. Feliciano, K. Judprasong** (2011). ASEAN Manual of Nutrient Analysis Institute of Nutrition, Mahidol University, Food Chemistry, Bangkok, Thailand. Available at the ASEANFOODS website:  
<http://www.inmu.mahidol.ac.th/aseanfoods/Pdf/ASEAN%20Manual%20of%20Nutrient%20Analysis.pdf>
- **H. Greenfield and D.A.T. Southgate** (2003) 'Food Composition Data – production, management and use'. It was published in 2003 in English (<http://www.fao.org/docrep/008/y4705e/y4705e00.htm>), in Spanish (<http://www.fao.org/docrep/009/y4705s/y4705s00.htm>) in 2006, in French (<http://www.fao.org/docrep/010/y4705f/y4705f00.htm>) in 2007 and 2008 in Korean. The books can be downloaded free-of-charge from the INFOODS website.
- **H. V. Kuhnlein, O. Receveur, R. Soueida and G. M. Egeland** (2009). Indigenous Peoples' food systems: the many dimensions of culture, diversity and environment for nutrition and health. FAO/CINE. It can be downloaded free-of-charge from the FAO website: <http://www.fao.org/docrep/012/i0370e/i0370e00.htm>
- **W.M. Rand, C.T. Windham, B.W. Wyse, V.R. Young** (1987). Food Composition Data: A User's Perspective. United Nations University, Tokyo. Available at [http://www.fao.org/fileadmin/templates/food\\_composition/images/Rand\\_et\\_al\\_1991\\_Compiling\\_Food\\_Composition\\_Data\\_Bases.pdf](http://www.fao.org/fileadmin/templates/food_composition/images/Rand_et_al_1991_Compiling_Food_Composition_Data_Bases.pdf)
- **Journal of Food Composition and Analysis (JFCA)** was the official INFOODS journal from 1987 to 2010 (see <http://www.journals.elsevier.com/journal-of-food-composition-and-analysis/>).
- **Supplements from most International Food Data Conferences** were published until 2010 with JFCA. The 9<sup>th</sup> and 10<sup>th</sup> IFDC supplements were published through Food Chemistry as open access papers.
- Over 20 scientific articles (see annex 1 for the most recent ones). Some of them are published at <http://www.fao.org/infoods/infoods/publications/books-journal-articles/en/>

## Tool development

A simple database management tool in Excel: the Compilation Tool, which can be downloaded free-of-charge together with a user guide from <http://www.fao.org/infoods/infoods/software-tools/en/>. An update is planned for 2014, as well as French and Spanish versions. It is also planned to publish the Compilation Tool as Access data files.

**Databases and tables** (available free-of-charge from INFOODS website

<http://www.fao.org/infoods/infoods/tables-and-databases/en/>)

- The **FAO/INFOODS Food Composition Database on Biodiversity** version 2.1 was published in 2013 (documentation in PDF and the database in Excel). It holds solely analytical data for about 6500 foods and 480 components. The first edition of 2010 contained compositional data for over 2400 foods, and was updated yearly since. The data were collected from the literature and from unpublished sources, e.g. theses, on food biodiversity.
- The **FAO/INFOODS Analytical Food Composition Database** Version 1.0 (AnFood1.0) (documentation in PDF and the database in Excel) was published in 2012. It is a global of scrutinized analytical data for 1139 common foods and 299

components (without any additional estimations, imputation or calculation of missing values).

- **West African Food Composition Table/Table de composition des aliments d'Afrique de l'Ouest** (FAO, 2012). It is available free-of-charge from the INFOODS website as PDF and Excel file <http://www.fao.org/infoods/infoods/tables-and-databases/africa/en/>. The West African Food Composition Table is being updated by FAO Rome in collaboration with AFROFOODS (Benin, Burkina Faso, Cameroon, Ghana, Mali, Nigeria, Senegal, and South Africa. This activity is being carried out within the Gates Foundation funded INDDIX project, led by the Tufts University, where FAO is a partner. The new version will include many more foods, recipes and biodiversity as well as more analytical data from the region.
- **Composition of Selected Foods from West Africa** (2010), co-published by FAO, WAHO, INFOODS and Bioersivity International (Stadlmayr et al., 2010). It was superseded by the West African Food Composition Table and was therefore retrieved from the INFOODS website
- **co-publication of the following food composition tables:**
  - ASEAN Food Composition Database, Electronic version 1, February 2014, Thailand. [http://www.inmu.mahidol.ac.th/aseanfoods/composition\\_data.html](http://www.inmu.mahidol.ac.th/aseanfoods/composition_data.html)
  - Food Composition Table for Bangladesh in 2013 (Shaheen et al.) in printed form, PDF and Excel. <http://www.fao.org/infoods/infoods/tables-and-databases/asia/en/>
  - ASEANFOODS food composition table in 2000 –only printed. Contact Prapasri Puwastien [prapasri.puw@mahidol.ac.th] to obtain a copy or more information.
  - LATINFOODS food composition table in 2000. Available at <http://www.inta.cl/latinfoods/>
  - The Pacific Islands Food Composition Table, second edition, published in 2004. Available from <http://www.fao.org/docrep/007/y5432e/y5432e00.htm>
  - Lesotho in 2006 (Leopolde et al., 2006). Available at <http://www.fao.org/infoods/infoods/tables-and-databases/africa/en/>
  - Brazilian Food Compositing Table in 2008. Available at <http://www.fcf.usp.br/tabela/>
  - Armenian in 2010. Available at: <http://www.fao.org/infoods/infoods/tables-and-databases/europe/en/>

#### Planned for 2015:

- FAO/INFOODS Global Fish and Shellfish Database
- FAO/INFOODS/TGI Global Supplement Database

#### **Capacity development**

The list of previous courses and participants as well as new food composition courses are published at the INFOODS website <http://www.fao.org/infoods/infoods/training/en/>

- Involved in and/or co-organized over 20 international training courses on food composition since 1992:
  - **13 International Postgraduate Courses** on the Production and Use of Food Composition Data in Nutrition held normally in Wageningen, the Netherlands, by the Graduate School VLAG (Advanced Studies in Food Technology, Agrobiotechnology, Nutrition and Health Sciences) and the Division of Human Nutrition of Wageningen University in collaboration with partners including UNU (United Nation University), FAO (Food and Agriculture Organization of the

- United Nations), COST action 99/ EUROFOODS, IUNS (International Union of Nutrition Societies), and recently also with EuroFir (European Food Information Resource Network): 2015, 2013, 2012 (Turkey), 2011, 2009, 2007, 2005, 2003, 2001, 1998, 1996, 1994 and 1992
- **12 regional courses:** 3 in Latin America (Chile in 1995, Argentina in 1996, Jamaica in 2001); 5 in South Africa (1997, 1999, 2002, 2005 and 2010), 2 in Asia (Thailand in 2002 and India in 2006), 1 in Europe (Slovakia in 2008) and 1 in Oceania (Australia 2009).
  - FAO/INFOODS organized several training courses
    - One half day training course in Dominican Republic as post-conference event to the SLAN conference in November 2015 (by LATINFOODS)
    - one day training course in Hyderabad, India, as pre-conference event to the 11<sup>th</sup> IFDC conference in November 2014 (planned)
    - One half day training course in Arusha, Tanzania, as post-conference event to the FANUS conference in May 2015 (with AFROFOODS)
    - one day training course in Accra, Ghana, as post-conference event to the ANEC IV conference in July 2014 (with AFROFOODS)
    - international course in the Near East (Iran in 2008)
    - 2 international courses in West Africa in 2009 (in Benin in French and in Ghana in English) in collaboration with Bioversity International
    - 4 training courses of 1-2 days for delegations of Mozambique, Palestine, Sudan and for FAO staff
    - 4 courses at the University of Vienna, Austria, in 2008, 2009, 2011 and 2012
  - Contribution and/or organization of courses related to specific projects:
    - SMILING project: 2012, participants from 5 South-East Asian countries (Thailand, Lao, Vietnam, Indonesia, and Cambodia) <http://www.nutrition-smiling.eu/content/view/full/48732>
    - GEF project: 2013, participants from 5 countries (Kenya, Brazil, Turkey, Sri Lanka)
  - Publication of the distance learning tool ‘**Food composition Study Guide**’ (Charrondiere et al., 2009 and 2009b) in 2009 (updates in 2010 and 2011) in English and 2011 in French and Spanish. The Study Guide is accompanied by 12 PowerPoint presentations summarizing the main points of some modules (also in English, French, Spanish and Portuguese). They are available free-of-charge at the INFOODS website <http://www.fao.org/infoods/infoods/training/en/> (English), <http://www.fao.org/infoods/infoods/formation/fr/> (French) and <http://www.fao.org/infoods/infoods/capacitacion/es/> (Spanish).
  - Publication in 2013 of the ‘**FAO/INFOODS e-Learning Course on Food Composition Data**’ – a course in 14 lessons which takes 10 hours to complete. It was especially designed for universities, but also for self-learners. It aims to close the knowledge gap on food composition of nutritionists and all those generating, compiling or using food composition data. It is available free-of-charge from <http://www.fao.org/infoods/infoods/training/en/> as on-line version or as CD.
  - Over 20 universities worldwide have already incorporated the ‘FAO/INFOODS e-Learning Course on Food Composition Data’ into their curricula – on a mandatory or voluntary basis. See excel file under <http://www.fao.org/infoods/infoods/training/en/>

### Laboratory Quality Assurance

- Access to AOAC for INFOODS members through FAO library (since 2013 – renewed each year since)

- P. Puwastien, T.E. Siong, J. Kantasubrata, G. Craven, R.R. Feliciano, K. Judprasong. ASEAN Manual of Nutrient Analysis (2011). Institute of Nutrition, Mahidol University, Food Chemistry, Bangkok, Thailand. Available at the ASEANFOODS website: <http://www.inmu.mahidol.ac.th/aseanfoods/doc/ASEAN%20Manual%20of%20Food%20Analysis.pdf>
- Between 1989 to 2007, ASEANFOODS (Institute of Nutrition, Mahidol University, Food Chemistry, Bangkok, Thailand) developed 10 food reference materials with consensus values: Rice flour, soybean flour, cereal-soy, fish flour, weaning food and milk powder for main nutrients and minerals and selected ones also for cholesterol, saturated fatty acid, sugars, vitamin C, B<sub>1</sub> and B<sub>2</sub> (for more information contact Prapasri Puwastien ([nuppw@mahidol.ac.th](mailto:nuppw@mahidol.ac.th))). ASEANFOODS also organized several proficiency testings (PT). More PTs are planned in SAARCFOODS countries.
- Strengthening laboratory capacity in food composition (including accreditation) in the South Pacific in 2002-2004 through FAO

**Biodiversity** (see <http://www.fao.org/infoods/infoods/food-biodiversity/en/>)

- Development of two Nutritional Indicators for Biodiversity on food composition (FAO, 2008) and on food consumption (2010 in English), available at [http://www.fao.org/infoods/biodiversity/index\\_en.stm](http://www.fao.org/infoods/biodiversity/index_en.stm). The French versions are available at [http://www.fao.org/infoods/biodiversity/index\\_fr.stm](http://www.fao.org/infoods/biodiversity/index_fr.stm) and the Spanish ones at [http://www.fao.org/infoods/biodiversity/index\\_es.stm](http://www.fao.org/infoods/biodiversity/index_es.stm).
- Reports on the monitoring of the two Nutritional Indicators for Biodiversity (2013, 2012, 2011, 2010). No progress reports were published in 2014 and 2015 due to lack of funds.
- Sustainable Diets and Biodiversity - Directions and solutions for policy, research and action (FAO, 2012)
- The FAO/INFOODS Food Composition Database on Biodiversity version 2.1 was published in 2013. It holds solely analytical data for about 6500 foods and 480 components. It is can be downloaded from <http://www.fao.org/infoods/infoods/food-biodiversity/en/>

**International Food Data Conferences (IFDC)**

(see <http://www.fao.org/infoods/infoods/conferences/en/> )

INFOODS co-organizes the IFDCs taking place every second year in a different place and every 4 years as a satellite meeting to the ICN (International Conference on Nutrition):

- 11th International Food Data Conference 'Food Composition Data and Public Health Nutrition' will be held on 3-5 November 2015 at the National Institute of Nutrition in Hyderabad, India. Several pre- and post-conference events are organized.
- 10th International Food Data Conference 'Joining nutrition, agriculture and food safety through food composition' will take place from 12 to 14 September 2013 in Granada, Spain
- 9<sup>th</sup> International Food Data Conference: Food Composition and Sustainable Diets. Norwich, UK, 14-17 September
- 8<sup>th</sup> International Food Data Conference: Quality food composition data - key for health and trade. Bangkok, Thailand, 1-3 October 2009
- 7<sup>th</sup> International Food Data Conference: Food Composition and Biodiversity. São Paulo, Brazil, 22-24 October 2007
- 6<sup>th</sup> International Food Data Conference: Food Composition Data and the Nutrition Dilemma. Pretoria, South Africa, 14-16 September 2005

- 5<sup>th</sup> International Food Data Conference: Fostering Quality Science in Food Composition Databases. Washington DC, USA, 30 June - 2 July 2003
- 4<sup>th</sup> International Food Data Conference: New trends in the management and uses of food databases. Bratislava, Slovakia, 24 - 26 August 2001
- 3rd International Food Data Conference. Back to Basics. Rome, Italy, 5 - 7 July 1999
- Second International Food Data Base Conference: Food Composition Research - The Broader Context. Lahti, Finland, 28 August - 30 August 1995
- First International Food Data Base Conference: Quality and Accessibility of Food-Related Data. Sydney, Australia, 22–24 September 1993

### Websites from regional INFOODS data centres

- The INFOODS website was redesigned, completed and updated in 2012: <http://www.fao.org/infoods/infoods/en/> . It is also available in French (<http://www.fao.org/infoods/infoods/fr/> ) and Spanish (<http://www.fao.org/infoods/infoods/es/> ).
- ASEANFOODS: <http://www.inmu.mahidol.ac.th/aseanfoods/>
- LATINFOODS: <http://www.inta.cl/latinfoods/> (in Spanish only for the moment)
- NEASIAFOODS: [www.neasiafoods.org](http://www.neasiafoods.org) (in Chinese only for the moment)
- EUROFOODS: for the moment more operating as EuroFIR <http://www.eurofir.net/>

### Country and regional activities

Many national activities and achievements happened over the last few years. They will be reported more in detail in the future. Existing regional and country reports are available at <http://www.fao.org/infoods/infoods/regional-data-centres/en/> - then go to the different regional data centres.

In 2014-2015, many changes in coordinators occurred and vice coordinators were elected to increase reach and activities of INFOODS. This model worked well in AFROFOODS and is being extended to other regions. Many countries generated new data, have or are publishing new food composition tables or databases (FCT/FCDB), and have regional projects on-going. Grants are being prepared to obtain more funding and other regional data centres are part of regional projects being paid by others (e.g. PAHO, EU)

### INFOODS Meetings

- Meetings of the IUNS/UNU/FAO INFOODS Task Force are held every two years at the IFDC. Reports of some of these meetings are available at <http://www.fao.org/infoods/infoods/structure-and-tasks-of-infoods/en/>
- ASEANFOODS meetings were held in Bangkok, Thailand in 2002 and 2011
- AFROFOODS meetings were held in 2001, 2009 (Dakar, Senegal) and 2011 (Abuja, Nigeria)
- LATINFOODS meetings are held every third year in connection with the SLAN conference. The last in 2012 in Cuba, the next one will be in 2015 in the Dominican Republic.
- NESIAFOODS meetings were held in 2002 (Beijing, China), 2004 (Suwon, Korea), 2010 (Ulaanbaatar, Mongolia)
- OCEANIAFOODS meetings in xx, 2002 (Brisbane, Australia), 2005 ( ) and 2009 (Sydney, Australia)

- SAARCFOODS meetings were held in 1996 (Peshawar, Pakistan), 1998 (Kathmandu, Nepal) and in 2010 (Colombo, Sri Lanka)

This list may be incomplete and will be completed in the future.

### **INFOODS as an IUNS Task Force**

Regular reports are sent to IUNS. Recent reports are also available at the INFOODS website <http://www.fao.org/infoods/infoods/structure-and-tasks-of-infoods/en/> . They include global as well as regional and country activities.

### **Sessions on Food Composition and/or Biodiversity were included in several International Conferences and Symposia**

(see also <http://www.fao.org/infoods/infoods/publications/presentations-conferences/en/> )

- At the EGEA conference on fruit and vegetables in Milan, Italy, in June 2015
- At the FANUS conference in Arusha, Tanzania, in May 2015
- At the 2013 "11th China Nutrition Science Conference and DRIs international symposium" in Hang Zhou, China in May 2013, a FAO/NESIAFOODS satellite meeting was held called "11th China Nutrition Science Conference and DRIs international symposium".
- At the SLAN Latin American Nutrition Congress from 11 to 16 November 2012 in Havana, Cuba, a session on sustainable diets and food composition was included
- At the 8th International Conference on Diet and Activity Methods (ICDAM 8), held in May 2012 in Rome, Italy, a session on biodiversity and sustainable diets was included
- At the 9<sup>th</sup> IUNS conference in Bangkok, 2009, a session was organized by INFOODS/FAO on 'Food Composition data linking agriculture, health, trade and the environment'
- FAO, INFOODS, Bioersivity International and others organized the International Scientific Symposium on "Biodiversity and Sustainable Diets" at FAO Headquarters in Rome, from 3 to 5 November 2010, as part of the World Food Day/World Food Week 2010 celebrations
- At 11<sup>th</sup> Asian Nutrition Conference (ANC) in Singapore, from 12 to 16 July 2011, NESIAFOODS, SAARCFOODS and the Chinese Nutrition Society organized the symposium 'Better Food For Human Health – Food and Nutrient Database in Asia'

This list may be incomplete and will be completed in the future.

### **Advocacy/Policy advice**

FAO/INFOODS are putting food composition and food biodiversity into the agenda of international bodies such as:

- Commission on genetic resources for food and agriculture (CGRFA) - Report of 14th session (2013). Available at <http://www.fao.org/nr/cgrfa/cgrfa-meetings/cgrfa-comm/fourteenth-reg/en/>
- CGRFA (2013) Review of Key Issues on Biodiversity and Nutrition (available at <http://www.fao.org/docrep/meeting/027/mf917e.pdf>) – also available in French, Spanish, Arabic, Chinese and Russian)
- CGRFA (2013) Linkages between Biodiversity, Food and Nutrition (available at <http://www.fao.org/docrep/meeting/027/mg285e.pdf>) – English only
- CGRFA (2013) Possible Ways to Better Generate, Compile and Disseminate Cultivar-Specific Nutrient Composition Data (available at <http://www.fao.org/docrep/meeting/027/mg219e.pdf>) – English only

- CGRFA (2013) Characterization of different Food Systems, including Traditional Food Systems, in relation to Biodiversity and Nutrition (available at <http://www.fao.org/docrep/meeting/027/mg270e.pdf>) – English only
- [Commission on genetic resources for food and agriculture \(CGRFA\) - Report of 13th session \(2011\)](#)

**Declarations** (see <http://www.fao.org/infoods/infoods/publications/declarations/en/> )

- AFROFOODS Arusha Declaration (2015)
- Cordoba Declaration on Promising Crops for the XXI Century (2012)
- AFROFOODS declaration (2010).
- Bangkok Declaration (2009) from the 8<sup>th</sup> International Food Data Conference.

## Selected Bibliography

- **Charrondiere, U.R., Burlingame, B., Berman, S., Elmadfa, I.** (2011a). *Manuel d'étude sur la composition des aliments – questions et exercices* (Volume 1). *FAO, Rome.*
- **Charrondiere, U.R., Burlingame, B., Berman, S., Elmadfa, I.** (2011b). *Manuel d'étude sur la composition des aliments – Réponses aux questions et exercices* (Volume 2). *FAO, Rome.*
- **Charrondiere, U.R., Burlingame, B., Berman, S., Elmadfa, I.** (2011c). *Guía para el estudio de la composición de alimentos – Preguntas y ejercicios* (Volumen 1). *FAO, Rome.*
- **Charrondiere, U.R., Burlingame, B., Berman, S., Elmadfa, I.** (2011d). *Guía para el estudio de la composición de alimentos – Claves de las preguntas y los ejercicios* (Volumen 2). *FAO, Rome.*
- **Charrondiere, U.R., Burlingame, B., Berman, S., Elmadfa, I.** (2009a). *Food Composition Study Guide – questions and exercises* (Volume 1). *FAO, Rome.* Updated in 2010 and 2011
- **Charrondiere, U.R., Burlingame, B., Berman, S., Elmadfa, I.** (2009b). *Food Composition Study Guide – Answers to questions and exercises* (volume 2). *FAO, Rome.* Updated in 2010 and 2011
- **FAO** (2003). Food energy - methods of analysis and conversion factors. *FAO, Rome.* Available at: <ftp://ftp.fao.org/docrep/fao/006/y5022e/y5022e00.pdf>
- **FAO** (2004). Report of the 'Technical workshop on Standards for food composition data interchange', Rome. *FAO, Rome.*
- **FAO** (2008a). Expert Consultation on Nutrition Indicators for Biodiversity - 1. Food Composition. *FAO, Rome.*
- **FAO** (2008b). Consulta de expertos sobre indicadores de nutrición para la biodiversidad - 1. Composición de los alimentos.
- **FAO** (2008c). Consultation d'experts sur les indicateurs nutritionnels pour la biodiversité - 1. Composition des aliments.
- **FAO** (2010). Expert Consultation on Nutrition Indicators for Biodiversity - 2. Food Consumption. *FAO, Rome.*
- **FAO/INFOODS** (2012) *FAO/INFOODS Food Composition Database for Biodiversity - Version 2.1 (BioFoodComp2.1)*
- **FAO/INFOODS** (2012) *FAO/INFOODS Analytical Food Composition Database Version 1.0 (AnFood1.0)*
- **FAO/INFOODS** (2012) *FAO/INFOODS Density Database - Version 2*
- **FAO/INFOODS** (2012). *FAO/INFOODS Guidelines for Checking Food Composition Data prior to the Publication of a User Table/Database - Version 1.0.* Rome: *FAO.*
- **FAO/INFOODS** (2012). *FAO/INFOODS Guidelines on Conversion among Different Units, Denominators and Expressions.* Rome: *FAO.*
- **FAO/INFOODS.** (2012). *FAO/INFOODS Guidelines on Food Matching version 1.2.* Rome: *FAO*
- **FAO/INFOODS** (2013). *FAO/INFOODS e-Learning Course on Food Composition Data.* Rome: *FAO.*
- **INFOODS** (2003). Report of technical meeting on tagnames.
- **Greenfield, H. & Southgate, D.A.T.** (2003). *Food Composition Data: Production, Management and Use*, second Edition. *FAO, Rome.*
- **Greenfield, H. et Southgate, D.A.T.** (2007). *Données sur la composition des aliments. Production, gestion et utilisation.* *FAO, Rome.*

- **Greenfield, H. y Southgate, D.A.T.** (2006). *Datos de composición de alimentos – obtención, gestión y utilización*. FAO, Roma. Available at: <ftp://ftp.fao.org/docrep/fao/009/y4705s/y4705s.pdf>.
- **Klensin, J.C.** (1992). INFOODS food composition data interchange handbook. *United Nations University, Tokyo*.
- **Klensin, J.C., Feskanich, D., Lin, V., Truswell, S.A. & Southgate, D.A.T.** (1989). Identification of Food Components for INFOODS Data Interchange. *United Nations University, Tokyo*.
- **Kuhnlein, H. V., Receveur, O., Soueida R. and Egeland G. M.** (2009). Indigenous Peoples' food systems: the many dimensions of culture, diversity and environment for nutrition and health. FAO/CINE.
- **Lephole, M.M., Khaketla, M. C., Monoto, M. E.** (2006). Composition of Lesotho Foods. First edition. *Department of Agricultural Research, Maseru*.
- **Puwasien, P., Siong, T.E., Kantasubrata, J., Craven, G., Feliciano, R.R., Judprasong, K.** ASEAN Manual of Nutrient Analysis (2011). Institute of Nutrition, Mahidol University, Food Chemistry, Bangkok, Thailand.
- **Rand, W.M., Windham, C.T., Wyse, B.W., Young, V.R.** (1987). *Food Composition Data: A User's Perspective*. United Nations University, Tokyo.
- **Rand, W.M., Pennington, J.A.T., Murphy, S.P. & Klensin, J.C.** (1991). *Compiling Data for Food Composition Data Bases*. United Nations University, Tokyo. Section 1 (Data Base Considerations) pp. 6-18 and sections 3-5 (Calculating representative data; Data from other sources; Estimation of data on similar foods) pp. 24-43.
- **Truswell, S.A., Bateson, D.J., Madafiglio, K.C., Pennigton, J.A.T., Rand, W.M. & Klensin, J.C.** (1991). Committee Report: INFOODS - Guidelines for describing Foods: A Systematic Approach to Describing Foods to Facilitate International Exchange of Food Composition Data. *Academic Press. Journal of Food Composition and Analysis*, 4 (1), 18-38.

# Annex 1

## Examples of recently published scientific articles:

- Blanco-Metzler A, de Pablo S, Samman N, Salazar de Ariza J, Masson L, de Núñez L, Wenzel de Menezes E. LATINFOODS activities and challenges during the period of 2009-2012. *Revista Archivos Latinoamericanos de Nutrición* Volumen 64, No 3, Septiembre 2014.
- The Food Monitoring Group. 2013. Progress with a global branded food composition database. *Food Chemistry*, 140 (3): 451–457
- Blanco-Metzler A (in the name of LATINFOODS). Resultados del estudio realizado en países de América Latina sobre contenido de sodio/sal en sopas. Webinar organized by PAHO during the Salt Awareness Week (March, 2013).
- Montero- Campos M, Blanco-Metzler A, Chan-Chan V. 2015 Sodium in breads and snacks of high consumption in Costa Rica. Basal content and verification of nutritional labeling. *Rev Archivos Latinoamericanos de Nutrición (ALAN)* 65(1): 36-43.
- Heredia-Blonval K, Blanco-Metzler A, Montero-Campos M, Dunford E. The salt content of products from popular fast-food chains in Costa Rica. *Appetite* 83: 173-177, 2014.
- Blanco-Metzler A. LATINFOODS database on regional targets of sodium in Latin American foods. 4th Meeting of the Salt Smart Consortium, Caribbean (Antigua and Barbuda). September 17-18, 2015
- Burlingame, B., Charrondiere, U. R., & Mouille, B. (2009). Food composition is fundamental to the cross-cutting initiative on biodiversity for food and nutrition. *Journal of Food Composition and Analysis*, 22(5), 361–365. doi:10.1016/j.jfca.2009.05.003
- Burlingame, B., Dernini, S., Charrondiere, U. R., Stadlmayr, B., Mondovi, S., & Dop, M.-C. (2011). Biodiversity and sustainable diets. Food and Agriculture Organization of the United Nations.
- Burlingame, B., Mouillé, B., & Charrondière, R. (2009). Nutrients, bioactive non-nutrients and anti-nutrients in potatoes. *Journal of Food Composition and Analysis*, 22(6), 494–502. doi:10.1016/j.jfca.2009.09.001
- Charrondiere, U. R., & Burlingame, B. (2007). Identifying food components: INFOODS tagnames and other component identification systems. *Journal of Food Composition and Analysis*, 20(8), 713–716. doi:10.1016/j.jfca.2007.06.004
- Charrondiere, U. R., & Burlingame, B. (2011). Report on the FAO/INFOODS Compilation Tool: A simple system to manage food composition data. *Journal of Food Composition and Analysis*, 24(4-5), 711–715. doi:10.1016/j.jfca.2010.09.006
- Charrondiere, U. R., Burlingame, B., Berman, S., & Elmadfa, I. (2009). Food composition training: Distance learning as a new approach and comparison to courses in the classroom. *Journal of Food Composition and Analysis*, 22(5), 421–432. doi:10.1016/j.jfca.2009.05.001
- Charrondiere, U. R., Chevassus-Agnes, S., Marroni, S., & Burlingame, B. (2004). Impact of different macronutrient definitions and energy conversion factors on energy supply estimations. *Journal of Food Composition and Analysis*, 17(3-4), 339–360. doi:10.1016/j.jfca.2004.03.011
- Charrondiere, U. R., Freisling, H., & Elmadfa, I. (2011). The distance learning tool ‘Food Composition Study Guide’ contributes to global capacity

- development in food composition. *Journal of Food Composition and Analysis*, 24(4-5), 663–669. doi:10.1016/j.jfca.2010.09.008
- Charrondière, U. R., Stadlmayr, B., Rittenschober, D., Mouille, B., Nilsson, E., Medhammar, E., ... Burlingame, B. (2013). FAO/INFOODS food composition database for biodiversity. *Food Chemistry*, 140(3), 408–412. doi:10.1016/j.foodchem.2012.08.049
  - Charrondiere, U. R., Stadlmayr, B., Wijesinha-Bettoni, R., Rittenschober, D., Nowak, V., & Burlingame, B. (2013). INFOODS Contributions to Fulfilling Needs and Meeting Challenges Concerning Food Composition Databases. *Procedia Food Science*, 2, 35–45. doi:10.1016/j.profoo.2013.04.007
  - Medhammar, E., Wijesinha-Bettoni, R., Stadlmayr, B., Nilsson, E., Charrondiere, U. R., & Burlingame, B. (2012). Composition of milk from minor dairy animals and buffalo breeds: a biodiversity perspective. *Journal of the Science of Food and Agriculture*, 92(3), 445–474. doi:10.1002/jsfa.4690
  - Nowak, V., Rittenschober, D., Exler, J., & Charrondiere, U. R. (2014). Proposal on the usage of conversion factors for fatty acids in fish and shellfish. *Food Chemistry*, 153, 457–463. doi:10.1016/j.foodchem.2013.11.006
  - Olango, T., Stadlmayr, B., & Charrondiere, U. R. (2013). Diversity in nutrient composition of underutilised root and tuber crops. *Acta Horticulturae*, 979, 147–156.
  - Rittenschober, D., Nowak, V., & Charrondiere, U. R. (2013). Review of availability of food composition data for fish and shellfish. *Food Chemistry*, 141(4), 4303–4310. doi:10.1016/j.foodchem.2013.07.007
  - Stadlmayr, B., Charrondière, U. R., & Burlingame, B. (2012). Development of a regional food composition table for West Africa. *Food Chemistry*. doi:10.1016/j.foodchem.2012.09.107
  - Stadlmayr, B., Charrondière, U. R., Eisenwagen, S., Jamnadass, R., & Kehlenbeck, K. (2013). Nutrient composition of selected indigenous fruits from sub-Saharan Africa: Nutrient composition of selected indigenous fruits from sub-Saharan Africa. *Journal of the Science of Food and Agriculture*, 93(11), 2627–2636. doi:10.1002/jsfa.6196
  - Stadlmayr, B., Nilsson, E., Mouille, B., Medhammar, E., Burlingame, B., & Charrondiere, U. R. (2011). Nutrition indicator for biodiversity on food composition—A report on the progress of data availability. 8th International Food Data Conference: Quality Food Composition Data, Key for Health and Trade, 24(4–5), 692–698. doi:10.1016/j.jfca.2010.09.009
  - Toledo, Á., & Burlingame, B. (2006). Biodiversity and nutrition: A common path toward global food security and sustainable development. *Biodiversity and Nutrition: A Common Path*, 19(6–7), 477–483. doi:10.1016/j.jfca.2006.05.001