

IFU's Overview: Unveiling Initiatives and Vital Facts Shaping the Fruit and Vegetable Juice Industry

ICBC 2023
Tatiana Campos, Executive Director





Behind the Name IFU



International Fruit and Vegetable Juice Association (IFU)

Founded in 1949 in Paris, France.

Mission: Serve as the global voice of the fruit and vegetable juice industry, championing the production and consumption of juices and related products worldwide.



Today 200+ members in 80 countries





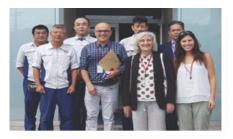
Member types: Associations | Corporate | Supporters | University













Executive Committee



Kees Cools
President



Demir SarmanVice President



Klaus Heitlinger
Treasurer



Dirk LansbergenPast President



Wouter Lox Western Europe



Maxim NovikovCIS



Diane NuryNorth America



Slim Othmani Africa



Tatiana CamposSouth America



Staff



Tatiana CamposExecutive Director



Aintzane EsturoTechnical Director



Maria Schlaffer
Marketing Director



Dominique Vasseur Membership Support Manager



IFU: The Worldwide Voice of the Juice Industry

IFU is the registered NGO representing the juice industry at CODEX.

Legacy:

 Developed 76 Chemical and Microbiological Methods and 20 Recommendations recognized worldwide.

Impact on CODEX Standard for fruit juices and nectars (CXS 247-2005):

- Total Provisions: 74
- IFU Methods recommended: 45 (+60%)













Main Pillars

IFU PRODUCT PILLARS

1 SCIENCE

2 STANDARDS

3 SUSTAINABILITY

4 MARKETS

IFU VALUE PROPOSITION

INFLUENCE

INDUSTRY BEST PRACTICE

INSIGHTS

INNOVATION

INFORMATION





Worldwide dynamics impacting the juice industry



Nutrition:

Nutritional profiling / Sugar Tax and Claims



Additives:

What additives are approved in Juices, Nectars and Juice based beverages.



Labelling:

Front of Pack Nutrition Labelling, Allergen Labelling,



Contaminants:

Review of levels of Lead and Cadmium in juices. Patulin.



Pesticide:

New MRLs, revocation of old pesticides and introductions of new ones.



Hygiene:

HACCP, standard of water used in food processing, allergen controls.



Control of Food Fraud.



Methods of Analysis:

Review of Codex methods approved



IFU Commissions and WGs

IFU members' specialist groups voluntarily review relevant topics, staying updated with the latest in their field.

They contribute to the formation of IFU opinions or statements and develop Methods of Analysis and Reports.

All members can join these Commissions and Working Groups.





Legislation Commission



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Our Primary Project:

Review of the current standard for fruit juices and nectars (Standard 247, 2005) and develop a new international standard for vegetable juices.

- . Seek support to establish a CODEX task force.
- II. Citrus taxonomy & Vegetable Juice WGs.
- II. Formulate the proposal for definition of sugar/energy reduced juice.

Other topics recently discussed:

- EU Proposal to Amend Fruit Juice Directive (sugar-reduced juices included).
- Amendment of General Standard for Fruit Juices and Nectars Grape Juice Brix.
- FDA's Closer to Zero initiative.
- Opinion about Dimethyl Dicarbonate in fruit juices and nectars.
- Proposed Draft East African Standard for Tomato Products.
- South African Draft Regulations relating to the labelling and advertising of Foodstuffs.
- EWGs CCFL Sustainability claims and Management of Unsupported Pesticides (CCPR).



Legislation Commission: Citrus Taxonomy WG



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Botanical Name	FRUIT'S COMMON NAME	Minimum Brix Level for Reconstituted Fruit Juices and Reconstituted Purée	Minimum Juice and/or Purée Content (% v/v) for Fruit Nectars
Citrus limon (L.) Burm. f. Citrus limonum Rissa	Lemon	8.017	According to the legislation of the importing country
Citrus paradisi Macfad	Grapefruit	10.017	50.0
Citrus paradisi, Citrus grandis	Sweetie grapefruit	10.0	50.0
Citrus reticulata Blanca	Mandarine/ Tangerine	11.817	50.0
Citrus sinensis (L.)	Orange	and consistent with the application of national legislation of the importing country but not lower than 11.2. It is recognized that in different countries, the Brix level may naturally differ from this range of values. In cases where the Brix level is consistently lower than this range of values, reconstituted juice of lower Brix from these countries introduced into international trade will be acceptable, provided it meets the authenticity methodology listed in the General Standard for Fruit Juices and Nectars and the level will not be below 10°Brix	50.0



Change to
Sweet Orange
Group

*Sensory Working Group for Citrus Evaluation (10 members):

This group will be responsible for developing a protocol to evaluate the "new" hybrids and determine if they possess the appearance, aroma, and taste qualities accepted as characteristic of orange juice.



Science and Technology Commission



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SCIENCE & TECHNOLOGY COMMISSION No.1
BEST PRACTICE GUIDELINE 2000



Fruit Washing & Sanitation



Fruit washing and sanitation (2022)

In development:

- Thermo-valorisation.
- Influence of temperature and density in mixing.
- Pectin valorisation.

IFU University

- Citrus extraction processes.
- Inactivation kinetics.
- Pasteurization: thermal, HPP, ohmic, PEF...
- Packaging, quality and nutrition.



Other Projects:

EU financed HiStabJuice project HISTABJUICE





Methods of Analysis Commission



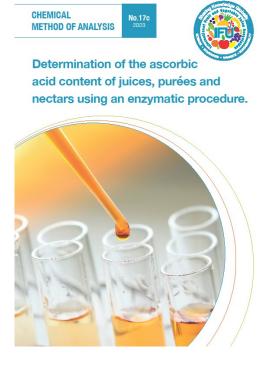
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Examples of IFU methods for citrus juices:

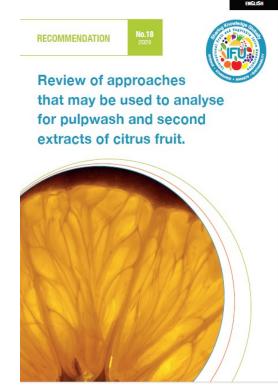
- IFU 45 (2005): Det. Essential oils
- IFU 46 (2005) Det. of Pectinesterase
- IFU 58 (2005): Det. of Hesperidine
- IFU 59 (2005): Total carotenoids
- IFU 60 (2005); Det. of centrifugeable pulp
- IFU 70 (2005): Cell content of pulp in juices
- IFU 83 (2017): Colour measurement in blood oranges



17a (2022) Nov



17c (2023) Jun



R18 (2023) Sep

New Developments:

- I. NMR det. for specific parameters
- II. Cyanide analysis
- III. Formol index measurements (automated systems)





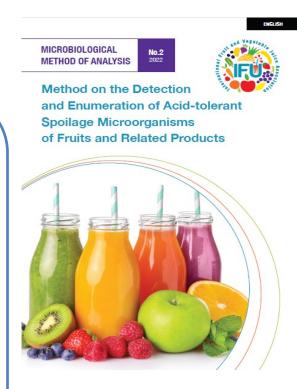
Microbiology Working Group



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New developments:

- MM 13: Det & Enum of Acid-tolerant Clostridia.
- MM14 Det of Heat Resistant Mould spores.
 Reduce analysis time.
- MM15 Det of Yeasts & Moulds (microscopy).
- Recommendations: Stability test for juices and drinks and Sterilization parameters
- List of reference strains













Sustainability Working Group



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Reports from citrus producers from:

- Nigeria
- Argentina
- Brazil
- Australia

Juice Environment Deep Dive (JEDD) Talks

- Biodiversity (28/03)
- Food loss and waste (18/10) and Water (15/11)





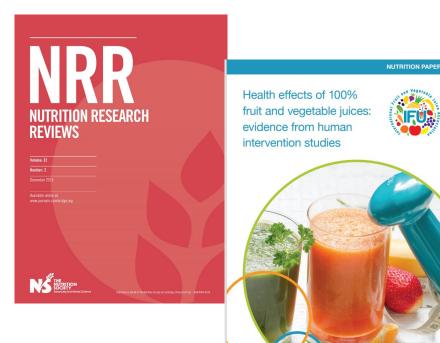
- Towards circularity in food packaging
- Seeking Sustainability to reduce the environmental impact
- How to Engage your Shoppers with your Innovations in Sustainability



Nutrition Working Group

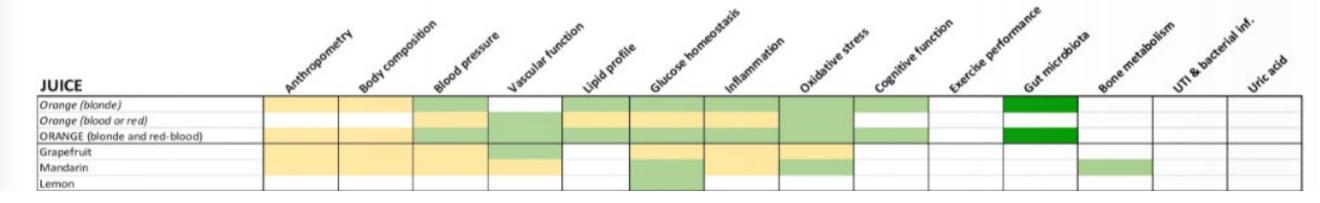


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Other activities:

- Follow-up the dietary recommendations in US and Canada
- IFU Comments to WHO Guideline on carbohydrate intake
- Recommendation on dietary fibres analysis in Fruit juices







Across Borders: IFU's International Gatherings



Roadshow IFU-SGF Brazil



Roadshow IFU-SGF Argentina



Juice Conference Cape Town, South Africa



IFU Technical Workshop Austria



Roadshow IFU-SGF Mexico

Only in the first semester of 2023, IFU organized events and technical seminars in Mexico, Austria, Brazil, Argentina, and South Africa, gathering more than 600 people from the global juice industry.



Upcoming IFU Events



Juice Summit 4-5 October 2023



IFU Webinars with Bryant Christie inc Pesticides MRLs – 26th Oct



Roadshow 2023:Bogotá – 28th Nov / Lima 1st Dec.



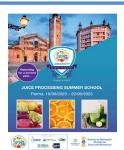
Technical Workshop in Germany March 2024



Upcoming IFU Events



IFU Juice Conference Bengaluru, India- 27th-30th May 2024 (date TBC)



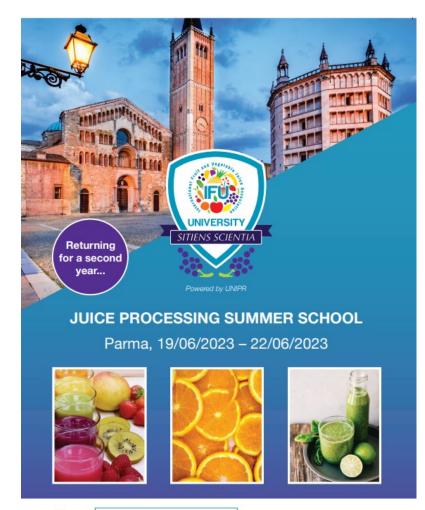
Parma University TBD 2024



Roadshow 2024: Southeast Asia (TBC).



IFU University – The Mission



To bring valuable knowledge from IFU, University and Industry professionals to the juice Community, supplying a complete overview of the science behind high quality juice processing.



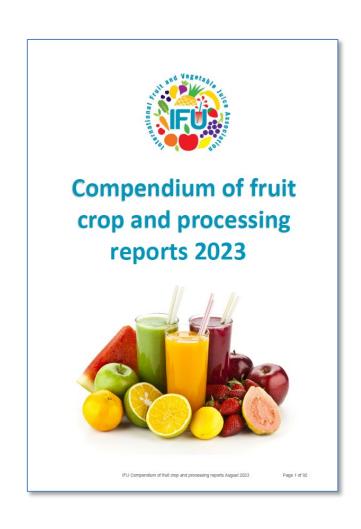








Keeping Members Informed on Global Juice Matters





In 2023, IFU members received 96 communications regarding crops, legislations, science, and regulatory aspects related to the global juice industry.

