rerlands. 3Breda University of

in Germany have been poster is an alysing and on culture, t he regional

tourist routes and in teaendations for a specific ed creating opportunities

it with different cultural, and critically analyzed to eserving the regional tea

aditions. This bigpotential uniqueness of the Frisian junicated more intensely de of this culimary heritage eloped as an irrcomparably

d to optimise cultural and panies into the tourism risia can create innovative ling of the region. Finally, g culinary cultural heritage

Promoting healthy eating environments: the role of public catering in the areas surrounding educational establishments

Mariana Campos², Beatriz Teixeira², Ada Rocha^{1,3}, Clàudia Viegas^{3,4}, Rui Poínhos², Cláudia Afonso^{2,5} ¹Faculty of Nutrition and Food Sciences of the University of Porto, Oporto, Portugal. ²ITR – Laboratory for Integrative and Transactional Research in Population Health, Oporto, Portugal. ³GreenUPorto - Research Center for Sustainable Agrifood Production, Oporto, Portugal. ⁴Lisbon School of Health Technology, Lisbon, Portugal. ⁵CITUR – Center for Research, Development and Innovation in Tourism, Oporto, Portugal

Introduction

Food consumption outside home is an important health determinant for population in general and, particulary, for students, who resort frequently to public catering in the areas surrounding educational establishments.

Objectives

To characterize the food offer included in the student menus in the Portuguese catering establishments.

Methodology

This is a cross-sectional observational study was design in the Portuguese public catering establishments. It was collected information about the composition of foods and beverages that compose the Student Menu.

Results

138 student menus were analyzed with an average of 3.4 options per menu (standard deviation = 3). Only 10% include soup and none of them include fruit. The vegetarian option is rare (11%) and only 20% include the fish option, contrasting with 35% that include the white meat option and 73% that include the red meat option. In 68% of the menus french fries are served, as a side dish. Regarding to drinks, 31% of the menus include sugary drinks and 42% include water. Allergen information is presented in 3.6% of the menus.

Conclusions

The Students Menus' options show a lack of variety and the food supply is inadequate in most of the analyzed menus. It's important to adopt national strategies, to promote healthier eating habits in the young population, considering the offer outside the home.









GRANDLYON

Twelfth International Conference on Culinary Arts and Sciences

Editors:
M. Michaud
A. Giboreau
A. Perez-Cueto

The Worshipful Company of Cooks &

The Institut Paul Bocuse Research Center





MENU, FOOD & HOSPITALITY MAGAZINE

MENU

VOLUME 10 - SPECIAL ISSUE REPORT OF ICCAS PROCEEDINGS

Twelfth International Conference on Culinary Arts and Sciences





GRAND**LYON**

TWELFTH ICCAS INTERNATIONAL CONFERENCE ON CULINARY ARTS AND SCIENCES

Lyon, 2 – 3 June, 2022

ORGANISING COMMITTEE

Maxime Michaud & Agnès Giboreau
Institut Paul Bocuse Research Center
Armando Perez-Cueto
Umeå University

SCIENTIFIC COMMITTEE

Jeffery Bray Bournemouth University, UK Luis Cunha Universidade do Porto, PT **Charles Feldman** Montclair State University, US Kai Victor Hansen Stavanger University, NO Sara Rodrigues Universidade do Porto, PT Jorge Ruiz Carrascal Universidad de Extramadura, ES **Laure Saulais** Université Laval, CA Rosaluz Valda-Romero Universidade del Vallee Cochabamba, BO **Karen Walton** University of Wollongong, AU Karin Wendin Kristianstad University, SE

Organized by the Institut Paul Bocuse Research Center &

Supported by the Worshipful Company of Chefs, The Lyon Metropole, Lyon 2

University and the TrAlim Chair

PREFACE

MENU is the magazine of the In

MENU provides updates on the to the Culinary arts, Food servic

It offers a multidisciplinary, ope pilot and applied fieldwork, cond and preliminary work from the I

This magazine aims for a broad in food service, hospitality, and

MENU favors papers that contr people and in all contexts.

This volume (#10) publishes the Arts and Sciences hold in Lyon of published in a special issue of the

Editor: M. Michau
Multimedia editor: L. Bourdon
ISBN: 2275-5748
Published by the Institut Pa
With the support of The Worsh

To cite a paper from this issue use (2022) Menu, Vol 10, Proceedings

© All rights reserved. Reproduction o, translations of any part of this public commercial purposes is strictly prohib This book continues the theme started in 1996, by bringing together the edited papers from the twelfth International Conference on Culinary Arts and Sciences, organized by the Institut Paul Bocuse Research Center at the Lyon 2 University, France.

These conference proceedings provide a permanent record of the papers and posters given, demonstrating the international variations of the conference and the different angels and diversity of subjects covered. Papers have been grouped under the following sessions:

FOOD ADAPTATION TO HEALTH CONCERNS AND CONSUMER PREFERENCES

CHEFS AND CONTEMPORARY FOOD ISSUES

CONSUMER'S KNOWLEDGE AND ATTITUDES TOWARD HEALTHY AND SUSTAINABLE FOOD

DYNAMICS OF FOOD CULTURES: HERITAGIZATION, TRANSFORMATION AND ACCULTURATION

FOOD PATTERNS AND DIET CONTENT

INNOVATIVE METHODS TO STUDY FOOD KNOWLEDGE, EXPECTATIONS AND EMOTIONS

TRENDS, CHOICES AND BEHAVIORS IN FOOD SERVICE

Worshipful Company of Cooks – Institut Paul Bocuse Research Center – The Lyon Metropole, Lyon 2 University and the TrAlim Chair

ISBN 2275-5748 - Lyon, June 2022

TABLE OF CONTENT

	5
PREFACE	
ICCAS 2022 THE 12TH INTERNATIONAL CONFERENCE ON CULINARY ARTS AND SCIENCES	10
ICCAS 2022 THE 12TH INTERNATIONAL GOVERN	-
	12
PART I - ORAL PRESENTATIONS	
SESSION 1: FOOD ADAPTATION TO HEALTH CONCERNS AND CONSUMER PREFERENCES	12
SESSION 1: FOOD ADAPTATION TO HEALTH CONCERNS AND STATE of Dietary and lifestyle management on type 2 diabetes development among Ethnic minority adults	
Effects of Dietary and lifestyle management on type 2 diabetes development	13
living in the UK: A generational shift	13
Arif Ahmed, Amalia Tsiami, Hafiz Khan	17
Development of a healthy version of a Burger with "Fries" Filipa Saloio¹, Adriana Cartaxo¹, Cláudia Viegas², Vânia Costa¹, Rute Borrego¹	17
Filipa Saloio ¹ , Adriana Cartaxo ¹ , Claudia Viegas ² , Valla Costa ² , Note Government and flavour during fermentation. How does different indigenous yeast strains influence aroma development and flavour during fermentation.	of
apple juice? Philip Lavin ¹ , Viktoria Olsson ² , Betty Collin ² , Stina-Mina Ehn Börjesson ² , Kimmo Rumpunen ³	18
Philip Lavin ¹ , Viktoria Olsson ² , Betty Collin ² , Stina-Willia Elli Bolycson ² , Hamber on healthy aging viewed from a foo Bridge Builders Network – a Nordic multidisciplinary research network on healthy aging viewed from a foo	d and
Bridge Builders Network & World Washington	22
nutrition perspective Cornelia Witthöft ¹ , Teija Rautiainen ² , Sari Ranta ² , Niina Rantakari ² , Lise Justesen ³ , Mohammed Hefni ¹ , Kai Victo	22
Myrnes-Hansen ⁴ , Anna Sandgren ⁵	26
SESSION 2: CHEFS AND CONTEMPORARY FOOD ISSUES	
Chef's knowledge and perceptions of farm-raised fin fish and how it impacts menu decisions.	27 27
	28
Bruce McAdams Celebrity chefs: Jamie Oliver and Gordon Ramsay as arbiters of taste and custodians of culinary capital	28
Ariane Lengyel	
Ariane Lengyel Reducing meat consumption in restaurants. How chefs perceive the place of meat in relation to sustainab	31
issues?	31
Arnaud Lamy	
SESSION 3: CONSUMER'S KNOWLEDGE AND ATTITUDES TOWARD HEALTHY AND SUSTAINABLE FOOD	32
SESSION 3: CONSUMER'S KNOWLEDGE AND ATTITUDES TOWARD Including activity on consumer attitudes	33
SESSION 3: CONSUMER'S KNOWLEDGE AND THE SESSION AS CONSUMER Attitudes Insects as food – the impact of information, sustainability, and physical activity on consumer attitudes	33
Julia Bengtsson ¹ , Karin Wendin ² Nutritional, sensory quality and general processing trends for the "Western" consumer in the case of sec	
Nutritional, sensory quality and general processing trends for the	
cucumber species Parastichopus tremulus Miroslava Atanassova ¹ , Ingebrigt Bjørkevoll ¹ , Margareth Kjerstad ^{1,2}	38
Miroslava Atanassova ¹ , Ingebrigt Bjørkevoli ² , Margarett Njersda ² Animal-based vs plant-based protein quality. A survey of millennial students nutritional knowledge and	food
preferences Giulia Negro, Amalia Tsiami	41
Giulia Negro, Amalia Islami Barriers towards plant-based food consumption are experienced differently according to dietary lifestyl	2:
Results of a Consumer survey in 10 EU countries.	44
Federico J.A. Perez-Cueto ¹ , Morten A. Rasmussen-, Ilona raber-, Rah orto destruta	44
Hans De Steur ³ Natural and healthy? Consumers' knowledge, understanding and preferences regarding processing,	
natural and healthy? Consumers knowledge, didensioning and healthiness of food products.	46
naturalness, and healthiness of flood products. Laure Saulais	46
Laure Saulais	

	5
ARY ARTS AND SCIENCES	10
	12
PREFERENCES	12
it among Ethnic minority adults	
	13
	13
	17
	17
and flavour during fermentation	of
	18
io Rumpunen ³	18
ealthy aging viewed from a food	
	22
ien ³ , Mohammed Hefni ¹ , Kai Victor	22
	26
s menu decisions.	27
S menu decisions.	27
ıstodians of culinary capital	28
25tourans of carriery capital	28
of meat in relation to sustainabile	itv
	31
	31
HY AND SUSTAINABLE FOOD	32
ivity on consumer attitudes	33
•	33
" consumer in the case of sea	
	38
	38
ts nutritional knowledge and foo	od
	41
	41
y according to dietary lifestyle:	
80. 80	44
:htold², Listia Rini³, Joachim Schoutt	eten³, 44
ces regarding processing,	
	46
	46

SESSION 4: DYNAMICS OF FOOD CULTURES: HERITAGIZATION, TRANSFORMATION AND ACCULTURATION	48
Awareness and perceptions of ethnic restaurant managers towards authenticity and sensory strategies – A o	case
study of Persian ethnic restaurants in London	49
Neda Sattarzadeh, Amalia Tsiami, Cristina Maxim, Elitza Iordanova	49
Cultural distancing: Reflections on traditional food practices during the COVID-19 pandemic Charles Feldman, Shahla Wunderlich	<i>53</i>
The transmission of food culture in China: between heritagization and mediatization Shanshan Zheng	<i>54</i> 54
SESSION 5: FOOD PATTERNS AND DIET CONTENT	56
Food Preparation Patterns and Diet Quality in the Portuguese population Mariana Rei ^{1,2} , Daniela Correia ^{2,3} , Duarte Torres ^{1,2} , Carla Lopes ^{3,2} , Ana Isabel Costa ⁴ , Sara S P Rodrigues ^{1,2}	<i>57</i> 57
Food Insecurities during the Covid-19 pandemic in the UK and consumption adaptation Jeff Bray, Heather Hartwell, Katherine Appleton, Jodie Lacey	60 60
Intermediate meals and the place of consumption - which relationship? João Lima ^{1,2,3} , Mafalda Eulálio¹, Marisa Rodrigues¹, Ada Rocha ^{4,2}	61 61
SESSION 6: INNOVATIVE METHODS TO STUDY FOOD KNOWLEDGE, EXPECTATIONS AND EMOTIONS	62
Evaluation of Port wine evoked emotions using a Rate-All-That-Apply approach Daniel Rocha ¹ , Célia Rocha ^{1,2} , Rui Costa Lima ¹ , Pedro Braga ³ , Luis Miguel Cunha ²	63 63
Understand post-Covid food service innovation expected by chefs using @ home videos Christelle Michon¹, Basak Oker²	64 64
Using cartoons in adult focus groups to discuss 'consumers feedback expectations in food service settings Kai Victor Myrnes-Hansen ¹ , Heidi Victoria Skeiseid ²	65 65
The Waiter's Craft Knowledge of Meal-design Lars Eriksson	<i>69</i>
SESSION 7: TRENDS, CHOICES AND BEHAVIORS IN FOOD SERVICE	75
An experimental food label applied to food served at a secondary school in Greater London and its influence adolescent food choices.	on 76
Joanne Tucker ^{1,2} , Dr Amalia Tsiami ³ , Dr Rosemary Stock ²	76
Food waste in cafeteria services: how much food do consumers leave on the plate and why? A case study. Joana Rodrigues¹, Andreia Oliveira¹, Cátia Morgado², Carlos Brandão², Maria Manuela Guerra².	79 79
Food trends in food service in Portugal	82
Ana Beatriz Alves ¹ , Ada Rocha ² , Margarida Liz Martins ³	82
PART II - POSTERS	83
Notification of the 'whole' term on the labels of processed and ultra-processed food formulated based on	
cereals and pseudocereals Érika Arcaro Bez Batti ^{1,2,3} , Paula Lazzarin Uggioni ^{1,2,3,4} , Amanda Bagolim do Nascimento ^{4,3,3} , Ana Paula Gines	84
Geraldo ^{4,5,3} , Ana Carolina Fernandes ^{2,1,3} , Greyce Luci Bernardo ^{3,1,2} , Rossana Pacheco da Costa Proença ^{3,1,2}	84
Trafficking Food and Data: The Ethics of Online Food Delivery	85
Bastienne Bernasco ¹ , Egbert Siebrand ²	85
Cross-border heritage: Friesland tea culture	86
Prof. Dr. Hartwig Bohne ¹ , Lysbeth Vink ² , Dr. Annette Kappert-White ³	86
Promoting healthy eating environments: the role of public catering in the areas surrounding educational	07
establishments Mariana Camport, Roatria Teivairaté, Ada Rochaté, Cláudia Vienació. Pui Poinhost, Cláudia Afonsota	87 87
Mariana Campos ¹ , Beatriz Teixeira ^{1,2} , Ada Rocha ^{1,3} , Cláudia Viegas ^{3,4} , Rui Poínhos ¹ , Cláudia Afonso ^{1,5} Design thinking for food: remote association as a creative tool in the context of the ideation of new rice-ba	
meals	88
Ana Castanho ^{1,2} , Manuela Guerra ³ , Carla Brites ^{2,4} , Jorge C. Oliveira ^{5,6} , Luís Miguel Cunha ¹	88

Audrey COSSON ¹ , Anestis DOUGKAS ¹ , Arnaud LAMY ^{1,2} , Maxime MICHAUD ¹ , Maxime SEBBANE ^{1,2}	89
Restaurant Portuguese traditional menus – Analysis of the food portions adequacy and ecological food print Vânia Costa, Eunice Bexiga	90 90
The Road to Brand Awareness: positioning food brands on the B2B- market, so an increasing demand of their	
products will be generated Margot de Graaff	91 91
Perceptions And Attitudes About Eating With The Fingers -A Study Among Older Adults With Motoric Eating	
Difficulties, Relatives And Professional Caregivers	92
Sarah Forsberg ^{1,2} , Albert Westergren ^{1,3} , Karin Wendin ^{1,2} , Elisabet Rothenberg ¹ , Wender Bredie ² , Maria Nyberg ¹	92
Characterization of behaviors and practices related to household food waste in Portugal Isabela Freitas ¹ , Ada Rocha ¹ , Margarida Liz Martins ²	<i>93</i> 93
Constructing the hospitality superstar – a document analysis of job advertisements in Sweden Kajsa Hult, Jack Lainpelto, Ute Walter, Inger M Jonsson	<i>94</i> 94
Food Fraud Prevention through Traceability within the Food Supply Chain. A Scoping Review Szymon Lara ¹ , Amalia Tsiami ²	95 95
Correct Application of Colloquial Plant Terminology May Help to Combat Food & Nutrition Insecurity Szymon Lara¹, Amalia Tsiami¹, Philippa Ryan²	96 96
Food@work: adequacy of food consumption according to the Portuguese food guide João Lima ^{1,2,3} , Eduarda Costa ¹ , Ada Rocha ^{4,2}	<i>97</i> 97
Impact of a cooking intervention on the cooking skills of individuals with type 2 diabetes	98
Clarice Mariano Fernandes Elpo¹, Paula Lazzarin Uggioni².³, Ana Paula Gines Geraldo⁴, Daniela Barbieri Haushild⁴,	
Débora Kurrle Rieger Venske ⁵ , Ana Carolina Fernandes ⁶ , Rossana Pacheco da Costa Proença ⁶ , Greyce Luci Bernaro	o ⁶ 98
Consumption of ultra-processed foods and adherence to the Mediterranean Dietary Pattern in Portuguese	
adults and elderly: The UPPER project.	99
Milena Moraes ^{1,2} , Bruno Oliveira ^{1,3} , Claudia Afonso ^{1,2} , Cristina Santos ^{1,4} , Duarte Torres ^{1,2} , Carla Lopes ^{2,5} , Renata Miranda ^{6,7} , Fernanda Rauber ^{2,8,9} , Luiza Antoniazzi ^{7,8} , Renata Levy ^{7,8} , Sara Rodrigues ^{1,2}	99
Circular gastronomy. A new concept in connecting food, eating and sustainability?	100
Maria Nyberg ¹ , Stina-Mina Ehn Börjesson ¹ , Karin Höijer ¹ , Viktoria Olsson ¹ , Elisabet Rothenberg ¹ , Karin Wendin ^{1,2}	100
Antecedents of consumer evaluation and consumption of sea cucumber foods: A cross-country comparison Bjørn Tore Nystrand ¹ , Mariya Illieva Palikarska ² , Miroslava Atanassova ¹	101 101
Consumer preferences and motives for eating legume-based dishes: a means-end chain study with tradition	
and novel chickpea recipes.	104
José Filipe Pereira ^{1,2} , Ana Isabel de almeida costa ³ , Luís Miguel Cunha ⁴	104
Nutritional benefits of sourdough breads – A literature review	105 105
Léa Ribet, Corinne Lesens	106
5 senses at the dining table – A systematic literature review of human five senses within dining settings Neda Sattarzadeh, Amalia Tsiami, Cristina Maxim, Elitza Iordanova	106
Monitoring the food environment of a brazilian public university Letícia Tavares, Maria Eliza Dos Passos, Bárbara Peçanha, Taciana Shikata	107 107
Cooking workshops as strategy of health promotion of patients with inflammatory bowel diseases Letícia Tavares¹, Maria Eliza Dos Passos¹, Cyrla Zaltman², Ariadne De Oliveira¹, Caio Marcelo Padula¹	108 108
Sauces and seasonings: Uses and attitudes in community-dwelling UK older adults Annie Thomas, Charlotte Boobyer, Zara Borgonha, Emmy van den Heuvel, Katherine Appleton	109 109
Evaluating the nutritional status of children that follow a lacto-vegan Hare Krishna diet in a primary school Corina Ujeniuc ¹ , Amalia Tsiami ¹ , Maddie Ohl ¹ , Arpita Jain ²	110 110
Knowledge, leadership and sustainability in the restaurant industry	111
Lotte Wellton	111
Body Composition, Nutritional Intake and Perception of Food Influence on Sports Practice Among Futsal	
Athletes: an Exploratory Study	112
Sílvia Zambujo ¹ . Bela Franchini ² . Ana Pinto de Moura ³	112

ICCAS PROGRAM

LIST OF POSTERS