



Sunday, 28 July, 2019

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| 09:00-19:30 | Registration <i>Room: Strathblane Hall</i> |
| 10:00-13:00 | ECR Seminar Please see separate programme for the details of this seminar <i>Room: Moorfoot</i> |
| 11:30-14:00 | Walking tours of city |
| What will the future look like and how do we rise to the challenge? | |
| 14:30-15:00 | Opening session of 13th Pangborn Sensory Science Symposium |
| 15:00 | Conference co-chairs: Joanne Hort, Massey University, New Zealand David Lyon, Firmenich, UK Cindy Beeren, Leatherhead Food Research UK <i>Room: Pentland Suite</i> |
| 15:00-16:00 | [K01] Collective learning: Sharing insights for innovation Mikel Cirkus, Firmenich, USA <i>Room: Pentland Suite</i> |
| 16:00-16:40 | Refreshment break <i>Room: Lennox Suite</i> |
| 16:40-17:40 | [K02] What does the future look like for sensory and consumer science: the opinion of experts in the field Nathalie Martin, Nestle, Switzerland <i>Room: Pentland Suite</i> |
| 17:40-17:50 | Welcome to Scotland David Thomson, MMR, UK <i>Room: Pentland Suite</i> |
| 17:50-19:30 | Welcome reception <i>Room: Lennox Suite</i> |

Monday, 29 July 2019

What generational, lifestyle, cultural issues are we facing?

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| | Session chair: Sara Jaegar, Plant & Food Research Ltd, New Zealand |
| 08:30-09:15 | [PLN01] Effects of neurodegenerative disease on sensory function in the brain: Focus on Alzheimer's disease and Down syndrome Claire Murphy, San Diego State University, USA <i>Room: Pentland Suite</i> |
| 09:15-10:00 | [PLN02] What's in a need? Maduran Wikneshwaran, Dyson, UK <i>Room: Pentland Suite</i> |
| 10:00-10:40 | Refreshment break <i>Room: Lennox Suite</i> |



| 10:40-12:40 | Session 1 Emotions | Session 2 Lifestages | Workshop 1 Sensory science as the bridge between consumer behaviour, nutrition and health | Workshop 2 Sensing future packaging | Learnshop 1 Demystifying qualitative sensory research |
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| | <i>Room: Pentland</i> | <i>Room: Sidlaw</i> | <i>Room: Fintry</i> | <i>Room: Tinto</i> | <i>Room: Lowther</i> |
| | <p>Session chairs: Gaston Ares, Universidad de la Republica, Uruguay</p> <p>Sophie Raviot, Coty Geneva Sarl Versoix, Switzerland</p> | <p>Session chairs: Lisa Methven, University of Reading, UK</p> <p>Sylvie Issanchou, INRA, France</p> | | | |
| 10:40-11:00 | <p>O1.1 Sensory drivers of product-elicited emotions: Insights from 11 studies using different methodological approaches</p> <p>S. Jaeger*¹, S. Spinelli², G. Ares³, E. Monteleone², ¹The New Zealand Institute for Plant & Food Research Ltd, New Zealand, ²University of Florence, Italy, ³Universidad de la República, Uruguay</p> | <p>O2.1 Food texture versus eating capability: What drives oral processing and difficulty perception in older adults?</p> <p>L. Laguna^{1,2}, M. Hetherington¹, A. Sarkar*¹, ¹University of Leeds, United Kingdom, ²Institute of Agrochemistry and Food Technology (IATA, CSIC), Spain</p> | <p>C. Forde*¹, K. DeGraaf*², N. Pagidas*³, R. Dando*⁴, ¹Clinical Nutrition Research Center, Singapore Institute for Clinical Sciences / National University of Singapore, Singapore, ²Wageningen University, Wageningen, Netherlands, ³Kerry Taste and Nutrition (Europe and Russia), Naas Co. Kildare, Ireland, ⁴Cornell University, Ithaca, USA</p> | <p>Q. Yang*^{1,2,3}, C. Raithatha*^{4,2,3}, O. Sim*¹, G. Simmonds*⁵, S. Patel*⁶, S. Lignou^{2,7}, C. Barnagaud*^{2,8}, ¹University of Nottingham, United Kingdom, ²Institute of Food Science and Technology (IFST) Sensory Science Group (SSG), United Kingdom, ³Society of Chemical Industry (SCI) Food Group, United Kingdom, ⁴Carol Raithatha Limited, United Kingdom, ⁵Sainsbury's Supermarkets, United Kingdom, ⁶The Packaging Collective, United Kingdom,</p> | <p>D. Hall*¹, N. Peper², C. Dus*³, R. Teratanavat*⁴, ¹Research Vibe, LLC, Nashville, USA, ²McCormick & Co., Inc., Baltimore, USA, ³Sensory Spectrum, Inc., New Providence, USA, ⁴Takasago International Corp., USA</p> |
| 11:00-11:20 | <p>O1.2 Use of different test conditions to better understand the emotional responses to samples provided from consumers</p> <p>T. Worch*¹, F. Sinesio², E.</p> | <p>O2.2 Application of the Check-All-That-Apply (CATA) method to explore sensory perception in children with different degrees of food neophobia</p> <p>P. Sandvik¹, V. L. Almlí², B. Alfaro*³, H.</p> | | | |



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| | <p>Monetta², S. Abbà³, L. Dreyfuss⁴, J. McEwan⁵, C. Porcherot- Lassalette⁶, ¹Qi Statistics Ltd, United Kingdom, ²CREA - Research Centre for Food and Nutrition, Italy, ³Adacta International, Italy, ⁴Biofortis, France, ⁵Jean A McEwan Consulting, United Kingdom, ⁶Firmenich, Switzerland</p> | <p>Jilani^{4,5}, M. Laureati⁶, L. Methven⁷, M. Sandell⁸, M. Wallner⁹, G. Zeinstra¹⁰, ¹Uppsala University, Sweden, ²Nofima, Norway, ³AZTI, Spain, ⁴Leibniz-Institute for Prevention Research and Epidemiology – BIPS, Germany, ⁵University of Bremen, Germany, ⁶University of Milan, Italy, ⁷University of Reading, United Kingdom, ⁸University of Turku, Finland, ⁹University of Applied Sciences, Austria, ¹⁰Wageningen Food & Biobased Research, Netherlands</p> | | <p>⁷University of Reading, na, United Kingdom, ⁸MMR Research Worldwide, United Kingdom</p> |
| 11:20- 11:40 | <p>O1.3 Facial expressions and food preference J. Bult*¹, J. Tangelder², R. Ruijschop³, T. Heffelaar⁴, T. den Uyl², A. Spink⁴, ¹Applegg, Netherlands, ²VicarVision, Netherlands, ³NIZO, Netherlands, ⁴Noldus Information Technology, Netherlands</p> | <p>O2.3 Ageing, multi-sensory impairment and food behaviour in Italian samples M. Concas¹, A. Robino ¹, E. Catamo¹, G. Girotto², M. Brumat², M. Mezzavilla¹, P. Gasparini*^{1,2}, ¹Institute for Maternal and Child Health – IRCCS “Burlo Garofolo”, Italy, ²University of Trieste, Italy</p> | | |
| 11:40- 12:00 | <p>O1.4 “App-take” influence in emotions during wine purchasing L. Laguna*, A. Rizo, A. Bartú, A. Tárrega,</p> | <p>O2.4 School children cooking and eating insects as part of a teaching program - effects of cooking, insect type, exposure and food neophobia</p> | | |



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| | <p><i>Institute of Agrochemistry and Food Technology (IATA, CSIC), Spain</i></p> | <p>M. Frøst, R. Rizki Riantiningtyas, M. Frøst*, <i>University of Copenhagen, Denmark</i></p> | | | |
| 12:00-12:20 | <p>○1.5 Comparative study on the role of mixed reality on affective drivers of tea break snack choices J. Low*¹, V. Li², L. Yeon², J. Hort¹, ¹<i>Massey University, New Zealand,</i> ²<i>Singapore Institute of Technology, Singapore</i></p> | <p>○2.5 Correlates of bitter, sweet, salty and umami taste thresholds in European children: Role of sex, age, country and weight status - the IDEFICS Study H. Jilani*^{1,2}, T. Intemann^{1,2}, K. Buchecker³, H. Charalambos⁴, F. Gianfagna⁵, S. De Henauw⁶, F. Lauria⁷, D. Molnar⁸, L. Moreno⁹, A. Hebestreit¹, ¹<i>Leibniz-Institute for Prevention Research and Epidemiology - BIPS, Germany,</i> ²<i>University of Bremen, Germany,</i> ³<i>TTZ, Germany,</i> ⁴<i>Research and Education Institute of Child Health, Cyprus,</i> ⁵<i>IRCCS Istituto Neurologico Mediterraneo NEUROMED, Italy,</i> ⁶<i>Ghent University, Belgium,</i> ⁷<i>National Research Council, Italy,</i> ⁸<i>University of Pécs, Hungary,</i> ⁹<i>University of Zaragoza, Spain</i></p> | | | |
| 12:20-12:40 | <p>○1.6</p> | <p>○2.6</p> | | | |



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| | <p>Do you trust your bank? Olfactory priming affects trust in a bank service M. Pinelli*¹, C. Cuny¹, J. Grobert², M. Fornerino¹, ¹Grenoble Ecole de Management, France, ²Toulouse Ecole de management, France</p> | <p>Does the temporal in-mouth texture quality of African indigenous/locally available complementary porridge samples match the oromotor readiness of infants and young children? J. Makame*, N. Emmambux, T. Cronje, R. Dekock, University of Pretoria, South Africa</p> | | | |
| <p>12.40-14.10 Lunch Room: Cromdale Hall</p> <p>Note: An Elsevier author workshop will be held from 13:30-14:00. All interested delegates are welcome to attend Room: Tinto</p> | | | | | |
| <p>14:10-16:10 Session 3 Health, lifestyle and wellbeing</p> | <p>Session 4 Cross-cultures</p> | <p>Flash posters I</p> | <p>Workshop 3 The person in the place: Exploring the eating experience</p> | <p>Learnshop 2 Free the spirit: How to bring the foundational role of sensory into successful brand building – A case study on single malt scotch whiskies</p> | |
| <p>Room: Pentland</p> | <p>Room: Sidlaw</p> | <p>Room: Fintry</p> | <p>Room: Tinto</p> | <p>Room: Lowther</p> | |
| <p>Session chairs: Betina Piqueras-Fisman, Wageningen University, Netherlands Riette DeKock, University of Pretoria, South Africa</p> | <p>Session chairs: Anne Goldman, ACCE International, Canada Martha Skinner, University of Nottingham, UK</p> | <p>Session chair: Pascal Schlich, INRA, France</p> | | | |
| <p>14:10-14:30 O3.1 Well-being and feeling good:exploring consumers' associations across different cultures</p> | <p>O4.1 A pilot study on Chinese taste vocabulary and its comparison to European languages: Culture differences of</p> | | <p>J. Delwiche*^{1,2}, C. Simons*³, C. Findlay*⁴, ¹Brock University, St. Catherines, Canada, ²Tasting Science LLC,</p> | <p>D. Thomson*^{1,2}, J. Rogerson *², J. Goyder*³, T. Coates*³, C. Barnagaud*⁴, V. Mialon*⁵, ¹MMR Research, Oxford, United Kingdom,</p> | |



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| | <p>and product markets C. Sulmont-Rossé¹, A. Hasted², V. L. Almlí³, H. L. de Kock⁴, J. A. McEwan⁵, M. Kern*⁶, H. van Zyl⁷, ¹AgroSup Dijon, France, ²Qi-Statistics Penhales House, United Kingdom, ³Nofima AS, Norway, ⁴University of Pretoria, South Africa, ⁵Jean A McEwan Consulting, United Kingdom, ⁶Eurofins SAM Sensory and Marketing International, Germany, ⁷Heineken Supply Chain, Netherlands</p> | <p>sweet as an example J. Nuessli Guth*¹, M. Runte², ¹ETH Zurich, Switzerland, ²ZHAW, Switzerland</p> | | <p>Levittown, USA, ³Ohio State University, Columbus, USA, ⁴Compusense, Toronto, Canada</p> | <p>²Annandale Distillery, Annan, United Kingdom, ³HUXLY Global, Oxford, United Kingdom, ⁴MMR Research, Oxford, United Kingdom, ⁵MMR Research, New York, USA</p> |
| 14:30-14:50 | <p>O3.2 Cooking a meal at home: The impact of contextual elements in culinary decision S. Bastien*^{1,2}, M. Sicard², J. Boutaud¹, C. Hugol-Gential¹, ¹Université de Bourgogne, France, ²Food Science SEB Group, France</p> | <p>O4.2 Cross-cultural differences of oral tactile acuity, PROP sensitivity and fungiform papillae density among Chinese and Danish consumers J. Liu*¹, C. Cattaneo², A. Bech³, W. Bredie¹, ¹University of Copenhagen, Denmark, ²University of Milan, Italy, ³Arla Foods, Denmark</p> | | | |
| 14:50-15:10 | <p>O3.3 Link gustatory sensitivities to consumption of hedonic food by</p> | <p>O4.3 Examining global texture and flavor preference segments</p> | | | |



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| | <p>fitting bi-directional psychometric functions</p> <p>R. Ginielis*¹, R. Keast², T. Perry¹, I. Oey¹, M. Peng¹, ¹University of Otago, New Zealand, ²Deakin University, Australia</p> | <p>J. Pool*, Pepsico, USA</p> | | | |
| 15:10-15:30 | <p>O3.4 Using sensory cues to optimise the satiety value of a reduced-calorie “Healthier Choice” product</p> <p>K. McCrickerd*, P. Tay, C. Tang, C. Forde, A*STAR, Singapore</p> | <p>O4.4 Harmonizing sensory programs around the world: Strategies for balancing structure and flexibility in a global environment</p> <p>A. Krogmann, B. Baron, L. Stapleton, C. Dus*, K. Osdoba, Sensory Spectrum, USA</p> | | | |
| 15:30-15:50 | <p>O3.5 Individual differences underlying satiation, food intake, and liking in semisolid foods</p> <p>P. Varela*¹, A. Mosca², Q. Nguyen¹, A. Hasted³, J. McEwan⁴, I. Berget¹, ¹Nofima, Norway, ²Wageningen University, Netherlands, ³QI Statistics Ltd, United Kingdom, ⁴Jean A McEwan Consulting, United Kingdom</p> | <p>O4.5 Mental representation and unfamiliar food: Influence of regional culture and geographical distances</p> <p>A. Bisconsin-Junior*^{1,2}, H. Rodrigues¹, R. Deliza³, J. Behrens¹, L. Mariutti¹, ¹University of Campinas, Brazil, ²Federal Institute of Rondônia, Brazil, ³EMBRAPA Agroindústria de Alimentos, Brazil</p> | | | |
| 15:50-16:10 | <p>O3.6 Food acceptance and taste sensitivity in children with</p> | <p>O4.6 A gritty story: Explaining variability in detection</p> | | | |



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| | <p>cancer A. Olsen^{1,2}, I. Taarnby^{1,2}, K. Kok², C. Mølgaard¹, A. Olsen*¹, ¹University of Copenhagen, Denmark, ²The Nutrition Unit, Denmark</p> | <p>thresholds of microscopic particles by food properties and consumer characteristics M. Santagiuliana*¹, I. Sampedro Marigómez¹, L. Broers¹, J. Hayes², B. Piqueras-Fiszman¹, E. Scholten¹, M. Stieger¹, ¹Wageningen University & Research, Netherlands, ²Pennsylvania State University, USA</p> | | | |
| 16:10-18:00 | <p>Poster session I and refreshments Room: Lennox Suite</p> | | | | |
| <p>Tuesday, 30 July 2019</p> <p>What does the future mean for our fundamental understanding of perception?</p> | | | | | |
| | <p>Session chair: Connor Delahunty, Symrise, Singapore</p> | | | | |
| 08:30-09:15 | <p>[PLN03] Augmented and virtual flavours Nimesha Ranainghe, University of Maine, USA Room: Pentland Suite</p> | | | | |
| 09:15-10:00 | <p>[PLN04] From perception to motivation Betina Piqueras-Fiszman, Wageningen University & Research, Netherlands Room: Pentland Suite</p> | | | | |
| 10:00-10:45 | <p>[PLN05] The role of the gut in the development of flavour preferences Maria Veldhuizen, Yale University, USA Room: Pentland Suite</p> | | | | |
| 10:45-11:25 | <p>Refreshments Room: Lennox Suite</p> | | | | |
| 11:25-13:05 | <p>Session 5 Digital opportunities and big data</p> | <p>Session 6 Fundamentals of perception I</p> | <p>Workshop 4 Context in product evaluation</p> | <p>Workshop 5 Revisiting the paired comparisons test</p> | <p>Learnshop 3 Sensechecking – new approaches for measuring tactile acuity</p> |
| | Room: Pentland | Room: Sidlaw | Room: Fintry | Room: Tinto | Room: Lowther |
| | <p>Session chairs: David Lyon, Firmenich UK Ltd, UK</p> | <p>Session chairs: Jeanine Delwiche, Tasting Science, USA</p> | | | |



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| | Thierry Worch, Qi Statistics, UK | Sara Spinelli, Universita Degli Studi Firenze, Italy | | | |
| 11:25-11:45 | <p>O5.1 The Digital Era.....how it's changed the way we don't think about things and how this has changed research! D. Thomson*, MMR Research Worldwide, United Kingdom</p> | <p>O6.1 Are all thermal tasters created equal? M. Thibodeau*¹, M. Bajec², A. Saliba^{3,4}, G. Pickering^{1,5,3,6}, ¹Brock University, Canada, ²Applied Consumer and Clinical Evaluations International, Canada, ³Charles Sturt University, Australia, ⁴Graham Centre for Agricultural Innovation, Australia, ⁵Cool Climate Oenology and Viticulture Institute, Canada, ⁶University of the Sunshine Coast, Australia</p> | <p>H. Meiselman*¹, S. Jaeger*², D. Giacalone*³, B. Piqueras-Fiszman*⁴, A. Giboreau*⁵, C. Hartmann*⁶, D. Thomson*⁷, ¹Herb Meiselman Training and Consulting, Rockport, USA, ²Plant and Food Research, Auckland, New Zealand, ³University of Southern Denmark, Odense, Denmark, ⁴Wageningen University, Wageningen, Netherlands, ⁵Institute Paul</p> | <p>P. Courcoux*¹, S. Lê*², M. le tertre*³, P. Pachot*⁴, E. Mehinagic⁴, J. Rogues*⁴, ¹ONIRIS, Nantes, France, ²AGROCAMPUS OUEST, Rennes, France, ³L'OREAL, paris, France, ⁴DIANA PETFOOD, elven, France</p> | <p>S. Waehrens*¹, L. Methven*², R. Keast*³, R. Ford*⁴, W. Bredie*¹, ¹University of Copenhagen, Frederiksberg C, Denmark, ²University of Reading, Reading, United Kingdom, ³Deakin University, Burwood, Australia, ⁴University of Nottingham, Nr Loughborough, United Kingdom</p> |
| 11:45-12:05 | <p>O5.2 Fast and automated sensory analysis: Using natural language processing for descriptive lexicon development L. Hamilton*, J. Lahne, Virginia Polytechnic Institute and State University, USA</p> | <p>O6.2 Greater grey matter volume and cortical thickness is associated with thermal taster phenotype S. Eldeghaidy*¹, M. Skinner¹, T. Giesbrecht², A. Thomas², J. Hort³, S. Francis¹, ¹University of Nottingham, United Kingdom, ²Unilever Research and Development, United Kingdom, ³Massey University, New Zealand</p> | <p>Bocuse, Ecully, France, ⁶ETH, Zurich, Switzerland, ⁷MMR, Oxford, United Kingdom</p> | | |
| 12:05-12:25 | O5.3 | O6.3 | | | |



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| | <p>Sharing a flavor experience in social media: Exploring attitudes and motivations to consume plant-based products G. Paosin¹, C. Gómez-Corona^{*2}, H. NGUYEN³, ¹Firmenich SA, Brazil, ²Firmenich SA, Mexico, ³Firmenich SA, Switzerland</p> | <p>Sweet Liking Status and PROP Taster Status impact emotional response to sweetened beverage Q. Yang^{*1}, M. Kraft¹, Y. Shen¹, H. Macfie^{2,1}, R. Ford¹, ¹University of Nottingham, United Kingdom, ²Hal MacFie Sensory Training Ltd, United Kingdom</p> | | | |
| 12:25-12:45 | <p>O5.4 Pairing flavors in social media. Why an Instagram image worth more than a thousand twitter words A. Arellano-Covarrubias^{*1}, C. Gómez-Corona², P. Varela³, H. Escalona-Buendía¹, ¹Universidad Autónoma Metropolitana, Mexico, ²XOC estudio, Mexico, ³NOFIMA, Norway</p> | <p>O6.4 Temporal perception of basic tastes in coffee and correlation of the interaction of polyphenols with human salivary proteins and bitter taste receptors R. Costa Lima^{*1}, C. Rocha^{1,2}, S. Soares², E. Brandão², J. Ribeiro^{1,2}, N. Mateus², V. de Freitas², L. Miguel Cunha², ¹Sense Test Lda., Portugal, ²University of Porto, Portugal</p> | | | |
| 12:45-13:05 | <p>O5.5 Straight from the mouth of people: creating a platform to deepen 'little' data and enhance big data J. Beckley^{*1}, G. Whittemore², M. Jeltema³, J. Vahalik⁴, ¹The Understanding & Insight Group LLC,</p> | <p>O6.5 Electrophysiological recordings from the tongue as an objective evaluation of the gustatory sensitivity M. Melis^{*1}, G. Sollai¹, D. Pani¹, P. Cosseddu¹, A. Bonfiglio¹, R. Crnjar¹, B. Tepper², I. Tamassini Barbarossa¹,</p> | | | |

Pangborn 2019

13th Pangborn
Sensory Science
Symposium



28 July – 1 August 2019 • Edinburgh International Conference Centre (EICC) • Edinburgh, Scotland

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| | USA, ² Whittemore Consulting LLC, USA, ³ M. Jeltema Consulting, USA, ⁴ U&I Collaboration LLC, USA | ¹ Cagliari University, Italy, ² Rutgers University, USA | | | |
| 13:05-14:15 | Lunch Room: Cromdale Hall | | | | |
| FREE AFTERNOON | | | | | |



| Wednesday, 31 July 2019 | | | | | |
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| What's new in terms of methodology and how are we adapting? | | | | | |
| | Session chair: Cindy Beeren, Leatherhead Food Research, UK | | | | |
| 08:30-09:15 | [PLN06] Where are we with sensory methods and where do we go? Gaston Ares, Universidad de la Republica Uruguay, Uruguay Room: Pentland Suite | | | | |
| 09:15-10:00 | [PLN07] The future is now: A call to action on the mutation of consumer research Ludovic Depoortere, Haystack, Belgium Room: Pentland Suite | | | | |
| 10:00-10:40 | Refreshment break Room: Lennox Suite | | | | |
| 10:40-12:40 | Session 7 Emerging methods I | Session 8 Sensometrics | Workshop 6 ESN interactive workshop: Effect of context on perfume elicited emotions | Workshop 7 The battle for consumer truth: how consumer and sensory research is facing disruption | Learnshop 4 Re-imagining sensory quality assurance: New techniques and technologies |
| | Room: Pentland | Room: Sidlaw | Room: Fintry | Room: Tinto | Room: Lowther |
| | Session chairs: Louise Hewson, Pepsico, UK John Hayes, Pennsylvania State University, USA | Session chairs: Chris Findlay, Compusense Inc, Canada Carolina Chaya, Universidad Politecnica de Madrid, Spain | | | |
| 10:40-11:00 | O7.1 An innovation process fit for the modern world – rapid, consumer-centric and impactful C. Withers*, M. Lintern, MMR Research Worldwide, United Kingdom | O8.1 Meta-analysis of sensory and consumer data B. Carr* ^{1,2} , R. Lesniasukas ¹ , ¹ Carr Consulting, USA, ² Charles Sturt University, Australia | C. Porcherot* ¹ , S. Raviot-Derrien* ² , L. Dreyfuss ³ , S. Deplanque ⁴ , S. Henneberg ⁵ , M. Niedziela ⁶ , J. A. McEwan ⁷ , ¹ Firmenich SA, Geneva, Switzerland, ² Coty inc., Geneva, Switzerland, ³ Mérieux NutriSciences, France, ⁴ University of | E. Gubisch*, D. Fenning* ¹ , M. Herd* ² ¹ Leatherhead Food Research, Epsom, United Kingdom, ² Sagentia, United Kingdom | L. Barr* ¹ , B. Bell* ² , B. Bleibaum* ^{3,4} , M. Conyer* ⁵ , ¹ DraughtLab, LLC, Fort Collins, Colorado, USA, ² Goose Island, USA, ³ UC Davis Division of Continuing and Professional Education, Davis, California, USA, ⁴ Dragonfly SCI, Inc., Santa Rosa, California, USA, ⁵ DraughtLab, LLC, |
| 11:00-11:20 | O7.2 Does automated analysis of open comments from consumers allow | O8.2 Investigating perception dynamics and uncertainty in | | | |



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| | <p>us to get relevant results to understand their preference ? P. Rebenaque*, H. Ghorbel, F. Albertetti, L. Van Gysel, E. Danthe, P. Deneulin, <i>HES-SO University of Applied Sciences and Arts Western Switzerland, Switzerland</i></p> | <p>temporal sensory data via independent components analysis (ICA) J. Castura*¹, D. Rutledge², A. Baker³, C. Ross³, ¹Compusense Inc., Canada, ²AgroParisTech, France, ³Washington State University, USA</p> | <p>Geneva, Switzerland, ⁵isi GmbH, Germany, ⁶HCD Research, USA, ⁷Consulting, United Kingdom</p> | <p>Rochester, New York, USA</p> |
| 11:20-11:40 | <p>O7.3 Simultaneous scoring of sensory difference and liking: Assessing the validity of a 2-D projective map method using relative scoring M. Adjei*¹, A. Oduro¹, A. Saliba², B. Carr³, J. Hardie⁴, H. Heymann⁵, ¹University of Ghana, Ghana, ²Charles Sturt University, Australia, ³Carr Consulting, USA, ⁴Ecovina, Australia, ⁵University of California, USA</p> | <p>O8.3 Segmentation of the subjects in a CATA experiment while setting aside atypical subjects F. Llobell*^{1,2}, V. Cariou¹, D. Giacalone³, A. Labenne², E. Qannari¹, E. Vigneau¹, ¹StatSC, ONIRIS, INRA, France, ²Addinsoft, XLSTAT, France, ³University of Southern Denmark, Denmark</p> | | |
| 11:40-12:00 | <p>O7.4 Transforming local descriptive panels to a G-local panel network M. Lozano Dieck*¹, A.</p> | <p>O8.4 Psychometric assessment and consumer segmentation with the Rasch model: Applying the Partial Credit</p> | | |



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| | <p>Dyakonova², K. Mclean ³, S. Lowenstein⁴, E. Gates⁴, J. Berchotteau⁵, ¹PepsiCo , Mexico, ²PepsiCo , Russian Federation, ³PepsiCo, USA, ⁴PepsiCo , USA, ⁵PepsiCo , United Kingdom</p> | <p>Rasch model to the 12-item Food and Beverage Need for Uniqueness (FBNFU) Scale P. Ho*¹, S. Jaeger², A. Cardello³, ¹University of Leeds, United Kingdom, ²The New Zealand Institute for Plant and Food Research Limited, New Zealand, ³A.V. Cardello Consulting and Editing Services, USA</p> | | | |
| 12:00- 12:20 | <p>07.5 Using advanced text analytics tool for deeper insights in big data - A longitudinal analysis of Pangborn presentation content from 2011 to 2017 K. Speight¹, R. Teratanavat*¹, D. Paredes¹, N. Peladeau², ¹Takasago International Corporation, USA, ²Provalis Research, Canada</p> | <p>08.5 Characterizing consumer segmentation using machine learning W. Russ*, J. Ennis, <i>The Institute for Perception, USA</i></p> | | | |
| 12:20- 12:40 | <p>07.6 Towards digitization of taste M. Niv*,</p> | <p>08.6 “I can see clearly now”: Even more effective ways to present sensory science data</p> | | | |



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| | <i>The Hebrew University, Israel</i> | L. Rogers*, <i>Freelance Sensory Scientist, United Kingdom</i> | | | |
| 12:40-14:10 | Lunch <i>Room: Cromdale Hall</i> Note: The African Network for Sensory Evaluation Research (ANSWER) will hold a meeting from 13:00-14:10. All interested delegates are welcome to attend <i>Room: Ochil</i> | | | | |
| 14:10-16:10 | Session 9 Technology led methods | Session 10 Emerging methods II | Flash posters II | Workshop 8 Social media in sensory and consumer research: What do we know so far and how can we shape the future? | Learnshop 5 Consumer relevance of sensory measurements |
| | <i>Room: Pentland</i> | <i>Room: Sidlaw</i> | <i>Room: Fintry</i> | <i>Room: Tinto</i> | <i>Room: Lowther</i> |
| | Session chairs: Ludovic Depoortere, Haystack, Belgium Lauren Rogers, Consultant, UK | Session chairs: Paula Varela, Nofima, Norway Anne Churchill, Givaudan, France | Session chair: Nathalie Martin, Nestle, Switzerland | | |
| 14:10-14:30 | O9.1 I see what I like – using a genetic algorithm to explain eye-tracking data in a food choice task M. Peng*, J. Cahayadi, T. Wang, <i>University of Otago, New Zealand</i> | O10.1 Hedonext® a review of its evolution and use in cosmetic science N. Wantz* ¹ , E. Loescher ¹ , G. Gazano ¹ , J. Sieffermann ² , ¹ LVMH Recherche, France, ² Université Paris-Saclay, France | | C. Gomez-Corona* ¹ , G. Ares* ² , S. Spinelli* ³ , N. Veflen* ⁴ , N. Stathopoulou* ⁵ , ¹ Firmenich SA, Mexico City, Mexico, ² Universidad de la Republica, Montevideo, Uruguay, ³ University of Florence, Florence, Italy, ⁴ BI-Norwegian Business School, Oslo, Norway, ⁵ Firmenich SA, United Kingdom | B. Rousseau* ¹ , J. Prescott* ^{2,3} , H. Lee* ⁴ , C. Kasamatsu* ⁵ , ¹ The Institute for Perception, Richmond, USA, ² TasteMatters Research and Consulting, Sydney, Australia, ³ Università degli Studi di Firenze, Florence, Italy, ⁴ Ewha Womans University, Seoul, Korea, Republic of, ⁵ Ajinomoto Co. Inc., Kawasaki, Japan |
| 14:30-14:50 | O9.2 Reliability of consumer tests conducted with 360° VR immersion; reproducibility, | O10.2 Hedonext® - a case study with extra virgin olive oil J. Guinard* ¹ , E. Menezes ² , E. | | | |



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| | <p>discrimination and environment impact. C. Porcherot*¹, M. Vignon-Mares¹, I. Goisbault², ¹Firmenich SA, Switzerland, ²Strategir, France</p> | <p>Loescher³, J. Sieffermann⁴, ¹University of California, USA, ²Universidade Federal do Estado do Rio de Janeiro, Brazil, ³LVMH Recherche, France, ⁴AgroParis Tech, France</p> | | | |
| 14:50-15:10 | <p>O9.3 Two worlds colliding: Exploring the use of augmented reality in consumer testing L. Hewson*, S. O'Connor, M. Cullingworth, <i>PepsiCo, United Kingdom</i></p> | <p>O10.3 How do pastry and culinary chefs design sensory complexity? J. Palczak*^{1,2}, A. Giboreau³, C. Patois³, M. Rogeaux¹, J. Delarue², ¹Danone Research, France, ²Université Paris-Saclay, France, ³Institut Paul Bocuse Research Center, France</p> | | | |
| 15:10-15:30 | <p>O9.4 Immersive sensory-booths to capture context-wise consumers' perception of desserts O. Lefebvre¹, A. Brasset², B. Lunel², F. Abiven², J. Delarue*^{1,3,4}, ¹AgroParisTech, France, ²Repères, France, ³INRA, France, ⁴Université Paris Saclay, France</p> | <p>O10.4 Situational appropriateness as a predictor of food choice D. Giacalone*¹, S. Jaeger², ¹University of Southern Denmark, Denmark, ²The New Zealand Institute for Plant & Food Research Limited, New Zealand</p> | | | |
| 15:30-15:50 | <p>O9.5 The impact of using virtual</p> | <p>O10.5 Humpback whale feeding calls: New</p> | | | |



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| | <p>reality as a context evocation method on product differentiation, participant engagement and participant behaviour</p> <p>M. Nijman*¹, Q. Yang¹, C. Hidrio², R. Ford¹, ¹The University of Nottingham, United Kingdom, ²Anheuser-Busch InBev, Belgium</p> | <p>sensory measures to improve individual whale identification</p> <p>B. Margoshes*¹, H. MacFie², F. Sharpe³, A. Szabo³, ¹Margoshes-Miller Consulting, USA, ²Hal MacFie Training Services, United Kingdom, ³Alaska Whale Foundation, USA</p> | | | |
| 15:50-16:10 | <p>O9.6 Being informed of technology when eating a supposedly 3D-printed waffle biscuit improves consumers' attitudes towards the 3D-printing technology in food</p> <p>F. Götze*, C. Denkел, T. Brunner, Bern University of Applied Sciences, Switzerland</p> | <p>O10.6 Scoring artifacts inherent in the traditional ANOVA analysis for the 9-point hedonic scale, reduce its power: two studies illustrate how a new and simple alternative analysis solves the problem</p> <p>M. O'Mahony*^{1,2}, E. Cubero³, X. Zhang², F. Jara-Solis³, Y. Araya-Quesada³, J. Halim², ¹University of California, USA, ²Davis Sensory Institute, USA, ³University of Costa Rica, Costa Rica</p> | | | |
| 16:10-18:00 | <p>Poster session II and refreshments Room: Lennox Suite</p> | | | | |
| 19:30-00:00 | <p>Gala dinner (Ticketed event) – National Museum Scotland</p> | | | | |



What are our resource challenges?

| 08:30-10:30 | Session 11 Global resource challenges | Session 12 Fundamentals of perception II | Workshop 9 Big data and data-driven modeling: New ways to speed up time-to-market and improve product performance in food and sensory R&D | Workshop 10 Sensory priming (the hidden marketing tool) | Learnshop 6 Incorporating modes of thinking into your sensory and consumer studies |
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| | Room : Pentland | Room : Sidlaw | Room: Fintry | Room: Tinto | Room: Lowther |
| | <p>Session chairs: Liisa Lahteenmaki, Aarhus University, Denmark</p> <p>Rosires Deliza, Embrapa Food Technology, Brazilian Agricultural Research Corporation, Brazil</p> | <p>Session chairs: Ciaran Forde, Singapore Institute for Clinical Sciences, Singapore</p> <p>Rebecca Ford, University of Nottingham, UK</p> | | | |
| 08:30-08:50 | <p>O11.1 How to measure knowledge about food sustainability? C. Hartmann*¹, G. Lazzarini², M. Siegrist¹, ¹ETH Zurich, Switzerland, ²FiBL, Switzerland</p> | <p>O12.1 "Odor Image" perception of brief puffs of key odorant mixtures from potato chips and almond milk headspace T. Acree*¹, X. Zeng², K. Ding¹, X. Wang³, Q. Tang¹, ¹Cornell University, USA, ²Kerry Inc., USA, ³China Agriculture University, China</p> | <p>L. Depoortere*¹, K. Vladislavleva*², ¹Haystack International, Heverlee, Belgium, ²Datastories International, Turnhout, Belgium</p> | <p>A. Churchill*¹, C. Jordan¹, I. Kontaris*¹, D. Thomson², G. Dijksterhuis³ ¹Givaudan UK Ltd, United Kingdom. ²MMR Research Worldwide, United Kingdom. ³Wageningen University and Research, Netherlands</p> | <p>D. Lundahl*¹, C. Simmons*², G. Stucky*¹, N. Janin*³, C. Withers⁴, C. Chaya⁵, S. Kirkmeyer*¹, R. Salas*⁶, M. Hannum*² ¹InsightsNow, Corvallis, OR, USA, ²Ohio State University, Columbus, OH, USA, ³Fonterra, New Zealand, ⁴MMR, United Kingdom, ⁵Universidad Politécnic, Spain, ⁶International Flavors & Fragrances, USA</p> |
| 08:50-09:10 | <p>O11.2 Impact of on-pack visual cues on household premeditated food waste A. Janssen*, H.</p> | <p>O12.2 In-mouth volatile production from brassica vegetables during oral processing and links to liking</p> | | | |



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| | Bos-Brouwers, S. Schnabel, R. de Wijk, S. Tromp, Wageningen University & Research, Netherlands | D. Frank*, U. Piyasiri, N. Archer, J. Heffernan, A. Poelman, CSIRO, Australia | | | |
| 09:10- 09:30 | <p>○11.3 Sustainable well-tasting meat products – substituting meat with texturized vegetable protein</p> <p>U. Kehlet, L. Hofer, T. Hansen, M. Aaslyng*, Danish Technological Institute, Denmark</p> | <p>○12.3 Exploring oral tactile sensitivity</p> <p>B. Miles, S. Ricci, K. Berkowitz, M. Whitecotton, K. Van Simaeys, S. Ang, C. Simons*, The Ohio State University, USA</p> | | | |
| 09:30- 09:50 | <p>○11.4 Sustainable Hops: Sensory characterisation of flavour preparations for brewing</p> <p>C. Dietz*¹, D. Cook¹, R. Marriott², C. Wilson², R. Ford¹, ¹University of Nottingham, United Kingdom, ²Totally Natural Solutions Ltd, United Kingdom</p> | <p>○12.4 Application of ultrasound for comprehending the texture perceptions resulting from the mechanical breakdown of food on the tongue surface</p> <p>R. Srivastava*, M. Mantelet, A. Saint-Eve, I. Souchon, V. Mathieu, INRA- AgroParisTech- Université Paris Saclay, France</p> | | | |
| 09:50- 10:10 | <p>○11.5 Turning icky stuff into delicious food -Creating sustainable future food with the help of sensory science and influencer co-</p> | <p>○12.5 The application of perceptual load theory to eating behaviour: A framework for overeating</p> <p>J. Morris*, S. Forster, M.</p> | | | |



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| | <p>creation L. Forsman*, S. Lundén, A. Hopia, M. Sandell, University of Turku, Finland</p> | <p>Yeomans, University of Sussex, United Kingdom</p> | | | |
| 10:10-10:30 | <p>O11.6 Re-wiring sensory & consumer science education - thoughts and discussion on educational and training needs for our next generation R. Bleibaum*^{1,2,3}, J. Beckley^{4,5,3}, ¹UC Davis Continuing and Professional Education, USA, ²Dragonfly SCI, Inc., USA, ³UC Davis Food Science & Technology Leadership Board, USA, ⁴UC Davis, School of Agriculture and Environmental Sciences Advisory Council, USA, ⁵The Understanding & Insight Group LLC, USA</p> | <p>O12.6 Implicit and physiological methods to study the influence of personality traits on emotional responses to tastes A. De Toffoli*, S. Spinelli, C. Dinnella, L. Pierguidi, H. Agovi, E. Mani, E. Monteleone, University of Florence, Italy</p> | | | |
| 10:30-11:10 | <p>Refreshment break Room: Lennox Suite</p> | | | | |
| | <p>Session Chair: John Prescott, TasteMatters Research & Consulting, Australia</p> | | | | |
| 11:10-11:35 | <p>Food Quality and Preference awards Presentation by the award winner Room: Pentland Suite</p> | | | | |
| | <p>Session chair: Joanne Hort, Massey University, New Zealand</p> | | | | |
| 11:35-12:20 | <p>[PLN08] Move over Big data; the rise of useful data Trevor Davis, Trevor Davis & Associates Ltd, UK</p> | | | | |

Pangborn 2019

13th Pangborn
Sensory Science
Symposium



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| | <i>Room: Pentland Suite</i> |
| 12:20- 13:05 | [K03] Sensory challenges in the final frontier – Developing space exploration food systems Grace Douglas, NASA, USA <i>Room: Pentland Suite</i> |
| 13:05- 13:15 | Closing remarks/Announcement of 2021 Meeting <i>Room: Pentland Suite</i> |
| 13:15 | End of conference |