

Day - 1 Saturday	13.Sep.25
08:00:00-13:00	Hike in the Nordkette (level moderate) Elevation gained approx. 600 m (drinks in an Alm) (if interested please e-mail anesu.chawaguta@uibk.ac.at for details)

Day 1 Sunday	14.Sep.25
08:00-12:00	Hike in the Nordkette (level moderate) Elevation gained approx. 300 m (drinks in an Alm) (if interested please e-mail anesu.chawaguta@uibk.ac.at for details)
14:00-15:45	Registration and Help Desk Open (Agnes Heller Haus, Innrain 52a) (https://mapcarta.com/W524429566) (Simone Jürschik and Lorenzo Petralia)
15:40-18:30	2025 Breath Summit 2025 Opening Ceremony (Audimax, Agnes Heller Haus) (Chairs Marco Freck, Executive Director of the IABR, and Jane Hill, Chair of the IABR)
15:45	Welcome to the 2025 Breath Summit Opening by Marco Freck and Welcome Address by Jane Hill
15:55	Organisational Announcements (Chris A. Mayhew and Simone Jürschik)
16:00	Das Innsbrucker Salonquintet - Joseph Haydn Kaiserquartett (Emperor Quartet), Opus 76, Nr. 3 (Hob. III:77) Erster Satz (Allegro)
16:20	Marco Freck Anton Amann and the Institute for Breath Research - an historical perspective
16:50	Das Innsbrucker Salonquintet - Wolfgang Amadeus Mozart: Eine kleine Nachtmusik (Serenade No.13 for strings), KV 525, First Movement (Allegro) and Second Movement (Romance: Andante)
17:00	Anton Amann Medal Awards - two lifetime achievement awards presented by Bogusław Buszewski, Marco Freck and Jane Hill
17:00	Announcement of Anton Amann Medal Awardee Number 1
17:05	Awardee Number 1 Presentation
17:35	Announcement of Anton Amann Medal Awardee Number 2
17:40	Awardee Number 2 Presentation
18:10	Das Innsbrucker Salonquintet - Wolfgang Amadeus Mozart: Eine kleine Nachtmusik, KV 525, Third Movement (Menuetto: Allegretto) und Fourth Movement (Rondo: Allegro)
18:30	Welcome Reception Audimax Foyer Agnes Heller Haus (Aperitifs, Drinks and Buffet)

Day 2 Monday	15.Sep.25
08:00-08:50	Registration and Help Desk (Centre for Chemistry and Biomedicine (CCB), Innrain 80-82) (https://mapcarta.com/W99054455) (Simone Jürschik and Rebecca Hofer)
08:50	CCB L.E.G. 200 SESSION 1 (Chair Chris A. Mayhew; Co-chair Anesu Chawaguta) Official Welcome to the University of Innsbruck by Gregor Weihs, Professor of Photonics and Vice-Rector for Research
08:55	Organisational and Preview Information (Simone Jürschik and Chris A. Mayhew)
09:00	Plenary Talk Andreas Güntner Molecule-selective breath sensors
9:50-10:30	Volatile Biomarkers, Clinical Studies and Biochemical Pathways (Chair Veronika Ruzsanyi; Co-chair Valentina Stock) Plenary Talk George Hanna Breath test to diagnose gastrointestinal cancers
10:30-11:00	Michael Phillips Breath tests for cancer: The long road from concept to product
11:00	Coffee Break and Exhibitions CCB (Tea, Coffee, Danish Pastries and Seasonal Cakes)
11:40-12:20	Pritam Sukul Why do we exhale isoprene?
12:20-12:40	Amalia Berna Breath-Based Detection of Pediatric MASLD: Evidence from Two Independent Cohorts
12:40	Makoto Sawano (10 minutes) Breath Summit 2026 in Japan - a preview
12:50	Exhibitions and Lunch Break (lunch is self service - Uni-Lounge, Ground Floor, Agnes Heller Haus)
13:30-14:30	JBR Editorial Board Meeting (Editorial Board Members Only) (First Floor, Agnes Heller Haus Seminarraum (Seminar Room) 1 01M030)
14:40	CCB L.E.G. 200 SESSION 2 Clinical Studies / Volatile Biomarkers (Chair Makoto Sawano; Co-chair Anesu Chawaguta) Alessandra Buma Lung cancer detection by electronic nose analysis of exhaled breath: a multi-center prospective external validation study
15:00	Giulia My Exploring the Volatilome: Potential Volatile Biomarkers for Non-Invasive Detection of Chronic Kidney Disease
15:20	Deevanshi Walia Towards Real-Time COVID-19 Detection via Untargeted Breath VOC Profiling Using Online GC-IMS
15:40	Felix Schmidt SESI-HRMS in Clinical Translation: Navigating the Path from Laboratory Innovation to Patient Care
16:00	Emmanuelle Bardin TD-PTR-MS: a novel coupling to bridge the gap between online and offline breath analysis
16:20	Coffee Break (Tea, Coffee and Fruit)
16:40-19:00	Exhibitions and Poster Session 1 with Sponsored Event: Alivion's "Breath & Brew – Science meets Hops" Posters 1-32 (Beer and Snacks Sponsored by Alivion) (Buffet Food Provided from about
18:30	JBR Editorial Board Dinner (Editorial Board Members Only and by Invitation - Weisses Rössl Inn, Kiebachgasse 8, Altstadt)

Day 3 Tuesday	16.Sep.25	
08:30-09:00	Registration and Help Desk (CCB) (Simone Jürschik and Anna Schöllnast)	
08:50	CCB L.EG. 200 SESSION 4	
	Organisational and Preview Information (Simone Jürschik and Chris A. Mayhew)	
	Sensors and Sensor Systems (Chair Jan Mitrovic; Co-chair Simone Hersberger)	
09:00	Plenary Talk Daniel Prades (45 minutes) Reimagining Gas Sensing: From Integrated Light Sources to Ubiquitous Metrology	CCB L.EG.220 SESSION 5
09:50	Laura Cappelli Recent advances in the use of E-Noses for the analysis of biological fluids	Oral Microbiome (Chair Pawel Mochalski; Co-chair Anna Schöllnast)
10:20	Lorena Díaz de León-Martínez Exhaled Breath Sensing: an IR-eNose approach for Exhalome Studies in Gastric Cancer	9:50 Lorenzo Petralia The Oral Microbiome and its Effect on Exhaled Breath Volatile Analysis
10:40	Sruthi Prasood Usha Kumari Advancing Fiber Optic Sensor Platforms for Breathomics and Environmental Health	10:10 Sean Harshman The Impact of the Oral Microbiome on the Volatile and Non-Volatile Metabolomic Profiles of Exhaled Breath and Saliva
		10:30 Yong-Sahm Choe The Methionine Challenge Test (MCT): A Groundbreaking Exogenous Breath Test for the Functional Diagnosis of Periodontitis
		10:50 Valerian Dirr Exploring VOCs and the Oral Microbiome in Head and Neck Cancer: The BioSCCFollow study and its potential in detection of novel biomarkers
11:00/11:10	Coffee Break and Exhibitions CCB (Tea, Coffee, Danish Pastries and Seasonal Cakes)	
11:40	SESSION 6	
	Clinical Studies (Chair Cristina Davis; Co-chair Elias Moonen)	
	Plenary Talk Renelle Myers (35 minutes) Integrated Analysis of the Lung Microbiome and Breath VOCs for Early Lung Cancer Detection	
12:20	Michael Fadel Non-invasive breath testing to detect colorectal cancer: a multicentre, case-control development and validation study (COBRA2 study)	SESSION 7
12:40	Haiyang Li Detection of Helicobacter pylori infection via measuring nasal exhaled ammonia with online purge sampling photoionization ion mobility spectrometry	Metabolomics (Chair Matteo Tardelli; Co-chair Albin Vadakkechira)
13:00	Exhibitions and Lunch Break	
14:40	Plenary Talk Stanislas Grassin-Delyle (35 minutes) Enhanced real-time breath analysis for precision medicine in respiratory diseases - A long way to the clinics	
15:20	SESSION 8	SESSION 9
	Pathogens and Infections (Chair Simona Cristescu; Co-chair Lalila Truyen)	Sensors and Sensor Systems (Chair Andreas Güntner; Co-chair Sruthi Prasood Usha Kumari)
	Woosuck Shin Electronic nose for screening out COVID-19 virus infection based on exhaled breath VOC detection	Simone Hersberger Validation study of a fully-integrated handheld breath acetone detector for nutritional and metabolic monitoring at home
15:40	Mitchell McCartney Utilizing animal VOC emissions to identify emerging zoonotic diseases and to prevent spillover into human populations: A pilot study	Gabriela Flores-Rangel Miniaturized Mid-Infrared Sensor Platform for Non-Invasive Detection of Helicobacter pylori via Isotopic Breath Analysis
16:00	Free Time	
18:30	Conference Dinner (Villa Blanka) (Aperitifs on terrace starting at 18:30) (Ticketed Event) (Free Car Parking Available)	

Day 4 Wednesday	17.Sep.25	
08:30-09:00	Registration and Help Desk (CCB) (Simone Jürschik and Arne Schiller)	
08:50	CCB L.EG. 200 SESSION 10 (Chair Stamatios Giannoukos; Co-chair Arne Schiller)	
	Organisational and Preview Information (Simone Jürschik and Chris A. Mayhew)	
	Sensor and Sensor Systems	
09:00	Plenary Talk Jan Mitrovic (40 minutes) Strategies in the design of Breath Analysis Systems with Chemical Sensors	CCB L.EG.220 SESSION 11
09:45	Inorganics and non-volatiles	Standardisation in Breath Sampling and Analysis (Chair Wolfram Miekisch; Co-chair Lorenzo Petralia)
	Makoto Sawano SARS-CoV-2 RNA load in Exhaled Breath Condensate from the Lower and Upper Airways of COVID-19 Patients	Scott Borden Implementing a Standardized High-throughput Breathomics Workflow in a Large-Scale Clinical Trial
	Christian Bur Simultaneous Analysis of Breath Condensate and Exhaled Breath in an Isolated Porcine Lung Model	Francesco Pigazzini Gaseous reference standard for breath analysis
10:25	Sophie Rex Christensen Detection of pathogenic DNA in exhaled breath condensate using Pneumocystis jirovecii as example	Thibault Massenet When Analytical Needs Face Clinical Reality: Comparative Evaluation of Offline Exhaled Breath Sampling Methods Using the Peppermint Experiment
10:45	Coffee Break and Exhibitions CCB (Tea, Coffee, Danish Pastries and Seasonal Cakes)	

	SESSION 12 Volatile Biomarkers and Biochemical Pathways (Chair Paul Brinkman; Co-chair Anesu Chawaguta)	SESSION 13 Diagnosis and Screening (Chair Boguslaw Buszewski; Co-chair Monika Śmiałowska)
11:20	Heather Bean Breath VOC biomarkers for detecting physical fatigue, mental fatigue, and sleep deprivation	Marieann Högman Deteriorating exhaled nitric oxide levels during immune checkpoint inhibitor therapy – a case report
11:40	Melanie Fachet Characterization of volatile organic compounds (VOCs) in exhaled air before and after inhaled allergen provocation in mild allergic bronchial asthma	Matteo Tardelli Volatile Metabolites as Functional Markers of the Gut-Liver Axis: Insights from Breath Profiling OR Breath Biopsy VOC Atlas: an open-access tool to expedite cross-validation of breath biomarkers
12:00	Luigi Ciotti Untargeted Exploration of Putative Emotional Chemo-Signals by Thermal Desorption Preconcentration GC-El and CI-TOFMS	Teny John Breath Biomarkers for Predicting Cytokine Release Syndrome and Immune Effector Cell-Associated Neurotoxicity Syndrome in Chimeric Antigen Receptor T-cell Therapy Recipients
12:20	Y Lan Pham Characterization of the volatilome in exhaled breath and sweat during physical activity	Rianne de Vries A Methodological Framework for a Comprehensive Breathomics Reference Database: BreathBase® Data
12:40	Emma Slack (on-line) Tracking microbiome activity via its volatiles	
12:40/13:00	Exhibitions and Lunch Break	
14:15	Group Photograph (Inn Promenade Agnes Heller Haus)	
	SESSION 14 Technological Analytical Platforms (Chair Lorenzo Petralia; Co-chair Kathleen Zwijsen)	SESSION 15 Data Analysis, Modelling and Interpretation (Chair Paul Thomas; Co-chair Haopeng Xu)
14:45	Jonathan Beauchamp From a first breath to a long exhale: three decades of soft chemical ionisation mass spectrometry in the field	14:45 Wolfram Miekisch Once is nothing at all - why repeated breath VOC tests are mandatory for the development of (diagnostic) application
15:15	Jens Herbig Latest PTR-TOF Innovations and Their Impact on Real-Time Breath Gas Analysis	15:05 Tessema Mekonnen SIBO and IMO prevalence and symptom profiles in data from standardized home-based breath testing in a German real-world cohort
15:45	Simona Cristescu An ultra-broadband spectroscopic analyzer reveals unprecedented profile of biomarkers in exhaled breath	15:25 Helen Martin Connecting the Dots: Advancing Multi-Matrix Workflows for Biomarker Discovery
16:10	Pierre-Hugues Stefanuto Asthma exhaled breath markers translation into actionable clinical tool for treatment monitoring	15:45 Karl Unterkofler Some Crucial Principles of Breath Analysis
16:30	Coffee Break and Exhibitions (Tea, Coffee and Fruit)	
17:00	SESSION 16 Expert Panel Discussion (Chairs Anesu Chawaguta, Stamatios Giannoukos and Rebecca Hofer) Early Stage Researchers' Led Panel Session (Chairs Anesu Chawaguta, Stamatios Giannoukos and Rebecca Hofer) (OPEN TO ALL DELEGATES) "Everything You Always Wanted to Know About Breath Research * (*But Were Afraid to Ask)" A question and answer session to an expert panel (open to all) Panel Members: Hossam Haick, George Hanna, Wolfram Miekisch, Joachim Pleil, Vera Ruzsanyi, Agi Smolinska and Paul Thomas	
18:30	ETH Sponsored Dinner for Early Stage Researchers (ESRs) - by invitation, ESRs (Master and PhD Students and Post Doctoral Researchers (3 years and less since PhD)) who are attending the 2025 Breath Summit should contact Anesu Chawaguta (Anesu.Chawaguta@uibk.ac.at)) by 12 September 2025	

Day 5 Thursday	18.Sep.25	
08:30-08:50	Help Desk Open (CCB) (Simone Jürschik)	
08:50	CCB L.EG. 200 SESSION 17 (Chair Kavita Jeerage; Co-chair Scott Borden)	
	Organisational and Preview Information (Simone Jürschik and Chris A. Mayhew)	
09:00	Human Body Odours	
	Plenary Talk Fabio di Francesco (45 Minutes) Identification and Real-Time Monitoring of Emotional Status Chemosignals in Human Body Odours	
09:50	Infectious Disease Detection	
	Audrey John Validation of breath volatile biomarkers of pediatric malaria and response to treatment	
10:20	Grant Ochoa Investigation of sputum volatiles for classification of M. Tuberculosis infection by multidimensional gas chromatography – high resolution mass spectrometry	
10:50	Coffee Break and Exhibitions CCB (Tea, Coffee, Danish Pastries and Seasonal Cakes)	
11:30	Matteo Tardelli Breath Biopsy VOC Atlas: an open-access tool to expedite cross-validation of breath biomarkers	
11:45	Jason Widegren Creation of Realistic Breath Surrogates for Infectious Disease Breathalyzer Validation	
12:00	Panel on the Validation of Biomarkers and Devices An open discussion session led and chaired by Kavita Jeerage with Audrey John, Grant Ochoa, Heidi Chapman (Bill and Melinda Gates Foundation), Matteo Tardelli, and Jason Widegren	
13:00	Exhibitions and Lunch Break	

	SESSION 18 Metabolomics/ Biochemical Pathways /Proteomics (Chair Agi Smolinska; Co-chair Ellen Heirwegh)	
14:30	Plenary Talk Veronika Ruzsanyi (35 minutes) Moving towards point-of-care breath tests for personalized medicine	CCB L.EG.220 SESSION 19 Technological Platforms (Chair Jonathan Beauchamp; Co-chair Kristian Kiland)
15:10	Jonas Larsen Pedersen A systematic review of the exhaled breaths protein composition	Jan Van der Broek A Portable, End-to-End Breath Analysis Platform Enabling Large-Scale Longitudinal Studies at Home
15:30	Theo Issit Identifying Volatile Flux Biomarkers and Mechanistic Drivers of Breast Cancer Metabolism	Mike Mirov Towards point-of-care, direct and real-time breath analysis: Recent progress in Dual Comb Spectroscopy
15:50	Daesik Lee Breath Analyzer for Real-Time Exercise Fat Burning Prediction: Oral and Alveolar Breath Insights with CNN	Joris Meurs Real-time monitoring of harmful e-liquid products in exhaled breath using proton transfer reaction – time-of-flight – mass spectrometry (PTR-ToF-MS)
16:10	Coffee Break (Tea, Coffee and Fruit)	
16:30-19:00	Exhibitions and Poster Session 2 (posters 31-62) (Buffet Food and Drinks provided from 17:30)	
18:00	IABR Members' Meeting (including elections) - IABR Members Only (Chair Jane Hill)	

Day 6 Friday	19.Sep.25
	CCB L.EG. 200 SESSION 20
08:50	Organisational and Preview Information (Simone Jürschik and Chris A. Mayhew) Volatile Biomarkers (Chair Joachim Pleil; co-chair Marleen Huisman)
09:00	Plenary Talk Agi Smolinska Unravelling VOC signatures: Data-centric strategies for data analysis
09:40	Sandrine Isz Breath-based glucose estimation device results for people with type 2 diabetes
10:00	Michael Skawinski Irritable Bowel Syndrome-specific Volatile Organic Compounds in Faecal Headspace do not associate with classical symptom-based subtypes
10:20	Monika Śmiełowska From Molecules to Metrics: Composite VOC Index as a Potential Simplified Diagnostic Tool for Colorectal Cancer
10:40	Coffee Break and Exhibitions CCB (Tea, Coffee, Danish Pastries and Seasonal Cakes)
11:10	Plenary Talk Jane Hill What can we learn from small-scale breath studies?
11:50	Paul Thomas Together Everyone Achieves More (TEAM), Global testing networks within the ONELAB project
12:20	SESSION 21 Closing Session (Chair Chris A. Mayhew)
12:20	1. Breath Summit 2026 Reprise (Makoto Sawano) (5 minutes) 2. Best Student Poster Awards (Ionicon Analytik GmbH) (10 minutes) 3. IABR Rising Star Award (Jane Hill) (10 minutes) 4. Final Remarks and Acknowledgements (Chris A. Mayhew) (10 minutes) 5. Farewell by Marco Freek , Executive Director of the IABR (5 minutes)
14:00	Hike in the Nordkette (level moderate) Elevation gained approx. 600 m (drinks in an Alm) (if interested please e-mail anesu.chawaguta@uibk.ac.at for details)

