

SATURDAY 17 MAY

Session	Chair	Start Time	End Time	Presenter	Title
Open Lecture (Rokko Hall)	Kato Yasuhiro	10:00	10:07	Kato Yasuhiro	挨拶
		10:07	10:37	Roumiana Tsenkova	「20年前からアクアフォトミクスが歩んだ道」
		10:37	11:07	Shigeaki Morita	「赤外分光とデータ解析による高分子の水和構造分析」
		11:07	11:30	Yoko Osafune	「美とアクアフォトミクス」
		11:30	12:00	Shogo Shigeoka	「アクアフォトミクスの実用化と未来への展望」
Lunch Break (Takigawa Kaikan)		12:00	13:00		
Session	Time	Session	Time	Session	Time
Aquaphotomics School Beginner English (Rokko Hall)	13:00 - 14:30	Aquaphotomics School Beginner Japanese (C101)	13:00 - 14:30	Aquaphotomics Workshop (B101)	13:00 - 14:30
Coffee Break		14:30	14:50		
Aquaphotomics School Advacned (Rokko Hall)	14:50 - 17:50			Aquaphotomics Workshop (B101)	14:50 - 17:30
Welcome Reception (Takigawa Kaikan)		18:00			

SUNDAY 18 MAY

Session	Chair	Start Time	End Time	Length	Presenter	Title
Session 1: Aquaphotomics Overview	Takaharu Sasaki	9:00	9:25	20 min + Q&A 5 min	Keynote Speaker: Roumiana Tsenkova	Aquaphotomics: Past, Present, Future
		9:25	9:50	20 min + Q&A 5 min	Yukihiro Ozaki	Noninvasive Analysis of Water Structure and Contents by use of Raman Spectroscopy
		9:50	10:15	20 min + Q&A 5 min	Zoltan Kovacs	Recent Results of Near Infrared Spectroscopy and Aquaphotomics in Food science and Beyond
		10:15	10:40	20 min + Q&A 5 min	Aleksandar Stoilov	A Modern Understanding of Water Coherence with NIR Aquaphotomics
Coffee Break		10:40	11:00	20 min		
Session 2: Aquaphotomics in Agriculture	Stefka Atanassova	11:00	11:25	20 min + Q&A 5 min	Keynote Speaker: Stefka Atanassova	Aquaphotomics approach application in agriculture
		11:25	11:40	12 min + Q&A 3 min	Shiromi Dissanayaka	NIR Aquaphotomics Approach for Soil–Plant–Water Interrelations: A Multivariate Spectral Evaluation of Phenological Stages and Soil Parameters
		11:40	11:55	12 min + Q&A 3 min	Yuda Hadiwijaya	Non-Invasive Monitoring of Organic Fertilizer Effects on Soil and Plants using NIR Aquaphotomics
		11:55	12:10	12 min + Q&A 3 min	Mariana Santos-Rivera	Aquaphotomics for Coffee: Monitoring the Impact of Microbial Post-Harvest Processing on Brewed Coffee Using NIR Spectroscopy
		12:10	12:25	12 min + Q&A 3 min	Saba Behdad (On-line)	Detection of Egg Fertility in chicken by water and Aquaphotomics
Lunch and Short Poster Presentations		12:25	13:25	60 min		
Session 3: Quantum Electrodynamics (Part 1)	Paolo Renati	13:25	13:50	20 min + Q&A 5 min	Keynote Speaker: Pierre Madl	Quantumbiology
		13:50	14:15	20 min + Q&A 5 min	Paolo Renati	QED and Field Perspective applied to Water and Living Systems
		14:15	14:35	15 min + Q&A 5 min	Nigel Dyer	The room temperature super-fluidic properties of water
		14:35	14:55	15 min + Q&A 5 min	Elmar Cristof Fuchs (On-line)	Measurable Effects of Vibrational Coupling of Water? In Search of Coherence Domain
		14:55	15:20	20 min + Q&A 5 min	Livio Giuliani (On-line)	Ion Cyclotron Resonance, the electricity of life: the needed role of geomagnetism and Schumann waves in living cells
Coffee Break		15:20	15:40	20 min		
Session 4: Aquaphotomics in Medicine and Cosmetics	Lian Li	15:40	16:05	20 min + Q&A 5 min	Keynote Speaker: Hengchang Zang	Study on quality control of traditional Chinese medicine -- water as a probe
		16:05	16:30	20 min + Q&A 5 min	Lian Li	Aquaphotomics application in the analysis of biomolecular interactions
		16:30	16:50	15 min + Q&A 5 min	Wieland Lackinger	Near-infrared spectroscopy combined with aquaphotomics as a non-invasive tool to measure parameters of human physiology: A review of own work and suggestions for future research
		16:50	17:15	20 min + Q&A 5 min	Ilina Iozdanova (On-line)	Coming soon
		17:15	17:40	20 min + Q&A 5 min	Michal Cifra (On-line)	Ubiquitous Biological Autoluminescence Generated by Chemiexcitation
		17:40	17:55	12 min + Q&A 3 min	Xiaobo Ma (On-line)	Study on hyaluronic acid aquaphotomics-from one dimension to two dimension analysis
Poster Discussions		18:00				

MONDAY 19 MAY

Session	Chair	Start Time	End Time	Length	Presenter	Title
Session 5: Quantum Electrodynamics (Part 2)	Antonella De Ninno	9:00	9:25	20 min + Q&A 5 min	Keynote Speaker: Giuseppe Vitiello	Bayes' rule, entanglement and free will in the dissipative quantum model of brain
		9:25	9:50	20 min + Q&A 5 min	Antonella De Ninno	From apparent chaos to order: the free-scale systems
		9:50	10:15	20 min + Q&A 5 min	Luca Gamberale	Between Order and Chaos: The Two-Fluid Symphony of Water's Anomalies
		10:15	10:40	20 min + Q&A 5 min	Sumiyoshi Abe	Similarity/dissimilarity between brain quakes and earthquakes
Coffee Break		10:40	11:00	20min		
Session 6: Aquaphotomics and Quantum Electrodynamics	Anirban Bandyopa dhyay	11:00	11:25	20 min + Q&A 5 min	Keynote Speaker: Anirban Bandyopadhyay	Aquaphotomics: Illuminating Water's Hydration Networks and Light - Mediated Information Flow in the Genesis of Consciousness
		11:25	11:50	20 min + Q&A 5 min	William Brown and Nassim Haramein	From Vacuum Oscillations to Water Molecular Coherence
		11:50	12:15	20 min + Q&A 5 min	Joachim Keppler	Self-Organized Criticality in the Brain: Shedding Light on the Emergence of Synchronized Neural Activity Patterns and the Formation of Conscious States
		12:15	12:40	20 min + Q&A 5 min	Jack Tuszyński (On-line)	Investigations of morphological, electro-conductive and metabolic changes in cancer cells resulting from exposure to low-intensity electromagnetic fields
Lunch and Sponsor Presentation	Takaharu Sasaki	12:40	13:40	60 min	Shigeoka Co., Ltd. Dr. Recella Co., Ltd. Asue Co., Ltd. 清武材木店 (KIYOTAKE ZAIMOKU TEN) Co., Ltd.	
Session 7: Spectroscopy	Justyna Grabska	13:40	14:05	20 min + Q&A 5 min	Keynote Speaker: Sylvie Roke	Quantifying hydrogen bonds in water and in aqueous systems
		14:05	14:30	20 min + Q&A 5 min	Justyna Grabska	Understanding Water Through Anharmonicity: A Theoretical and Spectroscopic Perspective
		14:30	14:50	15 min + Q&A 5 min	Olga Yablonskaya (On-line)	Effects of Infrared-Irradiated Water Vapor on Aqueous Solutions and Biological Systems
		14:50	15:15	20 min + Q&A 5 min	Masaru Tanaka	Effect of water structure on cell/protein/material interactions: Intermediate water concept for advanced medical devices
Coffee Break		15:15	15:35	20 min		
Session 8: Spectroscopy, Instrumentation and Chemometrics (Part 1)	Akifumi Ikehata	15:35	16:00	20 min + Q&A 5 min	Keynote Speaker: Akifumi Ikehata	Hydration and Hydrolysis Studies Using Near-Infrared Spectroscopy: Quantification by Extended Molar Absorption Coefficient
		16:00	16:25	20 min + Q&A 5 min	Krzysztof B. Bec (On-line)	State of water in various molecular environments – physical insights from combined vibrational spectroscopy, chemometrics and theoretical modelling
		16:25	16:50	20 min + Q&A 5 min	Christian W. Huck (On-line)	Modern Approaches in NIR Spectroscopy: Miniaturization, Interpretability, Method Design
		16:50	17:15	20 min + Q&A 5 min	Federico Marini (On-line)	Coming Soon
		17:15	17:40	20 min + Q&A 5 min	Shigeaki Morita (On-line)	Structure of Water in Polymer Matrices Investigated by Infrared Spectroscopy
General Assembly		17:40	18:30	50 min		
Banquet Dinner		19:00				

TUESDAY 20 MAY

Session	Chair	Start Time	End Time	Length	Presenter	Title
Session 9: Spectroscopy, Instrumentation and Chemometrics (Part 2)	Aleksandar Stoilov	9:00	9:15	12 min + Q&A 3 min	Keynote Speaker: Daniel Todorov	VIS-NIR Spectral Measurements Complying with Aquaphotomics Standards
		9:15	9:40	20 min + Q&A 5 min	Marcello Vanzulli	Coming Soon
		9:40	9:55	12 min + Q&A 3 min	Yasuhiro Kato	Establishment of a Redox Evaluation Method Based on Differences in Hydration Structure around GSH/GSS
		9:55	10:10	12 min + Q&A 3 min	Matyas Lukacs	Comparison of the performance and regression vectors of various NIRS data-based regression models for the prediction of caffeine content in aqueous solutions
		10:10	10:25	12 min + Q&A 3 min	Zoltan Gillay	From Black Box to Clarity: Leveraging Explainable Neural Networks in Aquaphotomics Research
Coffee Break		10:25	10:45	20 min		
Session 10: Aquaphotomics in Food	Tiziana M.P. Cattaneo	10:45	11:10	20 min + Q&A 5 min	Keynote Speaker: Tiziana M.P. Cattaneo	The Importance of the Aquaphotomics Discipline for the Food Sector: Why, When, Where and How
		11:10	11:25	12 min + Q&A 3 min	Flora Vitalis	Understanding water structure changes in fruit juices induced by plant extracts using aquaphotomics
		11:25	11:40	12 min + Q&A 3 min	Massimo Brambilla	Aquaphotomics for Quality Assessment by Chemical Markers in Dehydrated Pineapple
		11:40	11:55	12 min + Q&A 3 min	Uma Kamboj	Coming Soon

Posters:

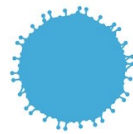
- The poster discussion will begin at 18:00 on May 18.
- Please display your A0-size poster on the panel corresponding to your assigned number.
- During the lunch break on May 18, you will be asked to give a short oral presentation (3 minutes).
- The order of the short oral presentations will follow the sequence of the poster numbers.
- Please prepare 1–2 slides summarizing the key points of your poster for your presentation.
- Our staff will operate the slides during the session.
- Please submit your slides to conference@aquaphotomics.com with **subject: [AIC2025 Poster Presentation]**
- **Submission deadline: May 17, 2025**

Session	Number	Presenter	Title
Poster Discussions	1	Francesco Chierici	Non-Invasive Monitoring of In Vitro Microtubules Polymerization using Near-Infrared Spectroscopy (NIRS) and Aquaphotomics
	2	Aleksandar Stoilov	A Modern Understanding of Water Coherence with NIR Aquaphotomics
	3	Ryo Takagi	Pilot Aquaphotomics Study of the Effects of Flow on Water Molecular Structure
	4	Julian Stokes	Identifying Functional Differences Between Drinking and Purified Waters Based on their Interactions with Light and Temperature; A Near-Infrared Spectroscopy and Aquaphotomics Pilot Study
	5	Jan Pokorny	Spectroscopic investigation of the Exclusion Zone water
	6	Alexis Theodorou	Investigating the correlation of Exclusion Zone Phenomena and Cryopreservation
	7	Shiromi Dissanayaka	NIR Aquaphotomics Approach for Soil–Plant–Water Interrelations: A Multivariate Spectral Evaluation of Phenological Stages and Soil Parameters
	8	Yuda Hadiwijaya	Non-Invasive Monitoring of Organic Fertilizer Effects on Soil and Plants using NIR Aquaphotomics
	9	Jan Skvaril	Monitoring basil response to alternative nutrient fertilizers using near-infrared spectroscopy and Aquaphotomics
	10	Daniela Moyankova	Low-temperature stress induced changes in cucumber plants - Aquaphotomics approach for investigation
	11	Lueji Regatieri	Impact of Treatment and Aging on PUFA-Enriched Cheese: an Aquaphotomics focused approach
	12	Anastasiia Surkova	Probing Water Molecular Organization in Allogeneic Bioimplants: Fiber-Optic NIR Spectroscopy and Aquaphotomics for Moisture and Structural Assessment
	13	Yoko Osafune	Exploring Water Absorbance Bands and Spectral Patterns Relevant to Skin Elasticity Evaluation in the Near-Infrared Spectra
	14	Saba Behdad (Online)	Diagnosis of Paratuberculosis in Dairy Cattle and Inflammatory Bowel Disease in Humans by Near-Infrared Spectroscopy and Aquaphotomics
	15	Muna E. Raypah (On-line)	Bridging Spectroscopy and Water Functionality: Insights from Aquaphotomics in Life and Food Science

SPONSORS／協賛企業・団体

Dr.Recella

ドクターリセラ株式会社



YUNOSATO
KONONO WAKAYAMA

Spa Yunosato, Shigeokka Co., Ltd
株式会社重岡



清武材木店株式会社

Kiyotake Zaimoku Ten

VI·VI
VI·VI Solutions

株式会社Asue

新しい価値へ
Proactive
株式会社 プロ・アクティブ

Proactive
株式会社プロ・アクティブ



PETSTANCE
株式会社プロ・アクティブ

isol technica

isol technica
株式会社アイゾールテクニカ



K A I K A
KAIKA
一般社団法人 開華GPE



Tsuki no Shizuku
一般財団法人 月のしずく
Tsuki no Shizuku Foundation

TAKEFU

株式会社ナファ生活研究所

SPACE

株式会社SPACE

NIRECO

NIRECO (株式会社ニレコ)



(株) 戦略思想研究所



コズミック・ウィル