

Wednesday 24th April 2024

Venue: Jena University Hospital, Am Klinikum 1 (Lobeda), Lecture Hall 1

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| From 11:00 onwards | Registration at the reception (Foyer area) |
| 12:00 – 12:30 | Opening Ceremony Opening remark by ISTRY President, Prof. Dr. Florian Zepf |
| 12:30 – 13:30 | Plenary Session 1 Ellen Nollen (University of Groningen, Netherlands) <i>Tryptophan metabolism as a modifier of aging and age-related diseases: A worm's perspective</i> |
| 13:30 – 14:00 | Coffee Break (Foyer area) |
| 14:00 – 15:30 | Symposium 1: Cancer Biology – Part 1 of 2 Chairs: Laura Santambrogio (USA) & Benjamin Heng (Australia) Speaker 1: Ahmed Sadik (Germany) <i>Tryptophan metabolic trajectories regulate AHR activation profiles.</i> Speaker 2: Shivani Krishnamurthy (Australia) <i>Hiding in plain sight - Understanding the role of tryptophan metabolism in Hepatocellular Carcinoma.</i> Speaker 3: Alessa L. Henneberg (Germany) <i>Effects of the Trp-degrading enzyme IL4I1 in cancer and beyond.</i> Speaker 4: Charlise Basson (South Africa) <i>An in vitro investigation and mathematical modelling of L-kynurenine and quinolinic acid on B16 F10 melanoma cell survival.</i> |
| 15:30 – 16:00 | Coffee Break (Foyer area) |
| 16:00 – 17:00 | Symposium 2: Analytical Methods for Detection of TRP & Related Metabolites Chairs: Johanna Gostner (Austria) & Edwin Lim (Australia) Speaker 1: Sonia Bustamante (Australia) <i>An integrated multi-omics approach identifies putative biomarkers of the "Tryptophan metabolic hub" as predictors of inflammatory disease course.</i> Speaker 2: Francisco Yanqui-Rivera (Germany) <i>Unraveling tryptophan's fate in glioblastoma metabolism from tracing studies.</i> Speaker 3: Svetlana Gramatiuk (Ukraine) <i>Using phosphorescence in clinical oncology as an early prognostic test in detecting Glioblastoma</i> |
| 17:00 – 19:00 | Welcome Reception (Foyer area) |

Thursday 25th April 2024

Venue: Jena University Hospital, Am Klinikum 1 (Lobeda), Lecture Hall 1

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| 08:00 – 10:00 | Symposium 3: Lifestyle Factors: Diet and Nutrition Chairs: Tsutomu Fukuwatari (Japan) & Stefano Comai (Italy) Speaker 1: Philipp Zimmer (Germany) <i>Exercise is Medicine - Spotlight on KP modulation.</i> Speaker 2: Niklas Joisten (Germany) <i>Targeted tryptophan metabolomics reveals elevated systemic levels of tryptophan metabolites during and after acute exercise.</i> Speaker 3: Takashi Nakagawa (Japan) <i>NAD⁺ synthesis from tryptophan and nicotinic acid is important for maintaining skeletal muscle functions at an old age.</i> Speaker 4: Ana Pocivavsek (USA) <i>Elevated dietary kynurenine impacts sleep and arousal behaviors: Special considerations during the pregnancy.</i> Speaker 5: Tsutomu Fukuwatari (Japan) <i>Establishment of model mice to evaluate low niacin nutritional status using kynurenine 3-monooxygenase knock out mice.</i> Speaker 6: Simone JPM Eussen (Netherlands) <i>Longitudinal associations of macro- and micronutrient intake with plasma kynurenines in colorectal cancer survivors up to 12 months post-treatment.</i> |
| 10:00 – 10:30 | Coffee Break (Foyer area) |
| 10:30 – 12:00 | Symposium 4: Mental Health and Neuroscience – Part 1 of 2 Chairs: Robert Schwarcz (USA) & Ana Pocivavsek (USA) Speaker 1: Stefano Comai (Italy) <i>Translational Insights: Navigating the Tryptophan to Kynurenine Pathway and Pharmacotherapy in Psychiatric Disorders.</i> Speaker 2: Funda Orhan (Sweden) <i>Kynurenic acid promotes activity-dependent synaptic pruning and associates with genetic risk variance for schizophrenia.</i> Speaker 3: Sarah Beggiato (Italy) <i>Possible relevance of kynurenic acid alterations in the MAM model of schizophrenia.</i> Speaker 4: Yasuko Yamamoto (Japan) <i>Indoleamine 2,3-dioxygenase 2 deficiency associates with autism-like behavior via dopaminergic neuronal dysfunction.</i> |

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| 12:00 – 12:30 | Lunch Break (Foyer area) |
| 12:30 – 14:00 | Poster Session 1 (Foyer area) |
| 14:00 – 15:00 | Plenary Session 2 Ralf Jockers (Institut Cochin, France) <i>Unconventional and biased melatonin receptor function</i> |
| 15:00 – 15:30 | Coffee Break (Foyer area) |
| 15:30 – 17:00 | Symposium 5: Cancer Biology – Part 2 of 2 Chairs: Philipp Zimmer (Germany) & Christiane Opitz (Germany) Speaker 1: Petr Tomek (New Zealand) <i>Challenging arylformamidase as the gatekeeper of kynurenine pathway in cancer.</i> Speaker 2: Pauline Holfelder (Germany) <i>Tryptophan limitation induces EGFR-RAS signaling that activates mTORC1 and p38 MAPK to sustain translation and autophagy.</i> Speaker 3: Sofia Rossini (Italy) <i>Epacadostat stabilizes the apo-form of IDO1 and signals a pro-tumorigenic pathway in human ovarian cancer cells.</i> Speaker 4: Deepak Sayeeram (Germany) <i>Identification of downstream effectors of interleukin-4-induced 1 - mediated tryptophan degradation in glioblastoma.</i> |

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Friday 26th April 2024

Venue: Jena University Hospital, Am Klinikum 1 (Lobeda), Lecture Hall 1

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| 08:00 – 10:00 | Symposium 6: Immunology/Pathology Chairs: Sophie Erhardt (Sweden) & Tina Notter (Switzerland) Speaker 1: Trevor W. Stone (UK) <i>Exploring relationships between inflammatory mediators and the kynurenine pathway.</i> Speaker 2: Laura Santambrogio (USA) <i>Biochemical and Immunological Characterization of 3HKA; a Novel Anti-inflammatory Biogenic Amine.</i> Speaker 3: Hidetsugu Fujigaki (Japan) <i>Targeted metabolomic analysis of serum tryptophan metabolites in patients with COVID-19.</i> Speaker 4: Odile Poulain-Godefroy (France) <i>Quinolinic acid modulates inflammatory epithelium response to influenza infection.</i> Speaker 5: Yukari Egashira (Japan) <i>Effects of anti-inflammatory food components on tryptophan-NAD metabolic key enzymes expression in LPS-treated microglial cells.</i> Speaker 6: Arve Ulvik (Norway) <i>Graves disease is associated with activation of the kynurenine pathway, a multiomics approach.</i> |
| 10:00 – 10:30 | Coffee Break (Foyer area) |
| 10:30 – 12:00 | Symposium 7: Mental Health and Neuroscience – Part 2 of 2 Chairs: Flaviano Giorgini (UK) & Funda Orhan (Sweden) Speaker 1: Samara J. Walpole (Australia) <i>Sex- and suicide-specific alterations in the kynurenine pathway in the anterior cingulate cortex in major depression.</i> Speaker 2: Daniëlle DB Holthuijsen (Netherlands) <i>Longitudinal associations of plasma kynurenines and ratios with anxiety, depression, fatigue, and health-related quality of life in colorectal cancer survivors up to 12 months post-treatment.</i> Speaker 3: Lieke Bakker (Netherlands) <i>Relation of the kynurenine pathway with cognitive functioning and differences in patients with cognitive impairment or dementia: a systematic review and meta-analysis.</i> Speaker 4: Benjamin Heng (Australia) <i>Unraveling the Complexity: Understanding and Addressing pathology of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS).</i> |

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| 12:00 – 12:30 | Lunch Break (Foyer area) |
| 12:30 – 14:00 | Poster Session 2 (Foyer area) |
| 14:00 – 15:00 | Plenary Session 3 Robert Schwarcz (University of Maryland, USA) <i>Kynurenic acid in brain function and dysfunction: Obscure no longer!</i> |
| 15:00 – 15:30 | Coffee Break (Foyer area) |
| 15:30 – 16:30 | Symposium 8: Mix Topics Chairs: Trevor Stone (UK) & Stefano Comai (Italy) Speaker 1: Marta Gómez-Galán (Sweden) <i>Surgical Stress and Cognitive Consequences: Unraveling Hippocampal Metabolic Shifts and the Impact of the Kynurenine Pathway.</i> Speaker 2: Sandra Tatchum (South Africa) <i>The in vitro effect of kynurenine metabolites on endothelioma cells and the in vivo effect of L-kynurenine and CTCE-9908 in C57BL/6 mice.</i> Speaker 3: Mary EW Collier (UK) <i>The effect of the single nucleotide polymorphism rs1053230 genotype on kynurenine 3-monooxygenase (KMO) expression, activity, cellular localisation and protein interactions.</i> |
| 16:30 – 17:00 | Awards & Closing Remarks <ul style="list-style-type: none"> • Best Poster Award • ISTRY Musajo Medal Award • Closing remarks by ISTRY President |
| From 19:00 - late | Conference Dinner (Jena University Hospital, Cafeteria Hanfried) All conference delegates to attend. <i>Note: No additional cost required, included in the registrations fee.</i> |