

The 3rd Annual Meeting of the International Society of Nucleic Acid Immunity (NAIS26)

Poster Presentation List

No.	Name	Affiliation	Presentation Title
P01	Sunil Sapkota	Hudson Institute of Medical Research	Defining the Immunomodulatory Determinants of 3-mer Oligonucleotides on TLR7 and TLR8 sensing
P02	Tobias Komar	Ludwig-Maximilians-University Munich	Investigating the Chemical Repertoire of Lysosomal and TLR7/8-bound RNA Ligands
P03	Marleen Berouti	Ludwig-Maximilians-Universitat Munich	2', 3'-cUMP Is the Endogenous Ligand of TLR8
P04	Erandi Rupasinghe	Hudson Institute of Medical Research	Revisiting the functionality of murine TLR8 in vivo
P05	Takuma Shibata	The University of Tokyo	TLR7 Reprograms Macrophages to Drive Cytotoxic T Cell-Mediated Submandibular Sialadenitis
P06	Rui Gao	Hudson Institute of Medical Research	2'-O-Methyl Guanosine RNA Fragments Inhibit Toll-Like Receptor 3 and 13 Activation
P07	Shu-Wen Wan	National Cheng Kung University	CpG/Alum-Adjuvanted Multivalent Dengue Vaccine Confers Protection under Metabolic Stress
P08	Ryota Sato	Chiba University	Macrophage-Intrinsic TLR9 Activation by Lysosomal DNA Stress Drives Emergency Myelopoiesis and Liver Fibrosis
P09	Franziska Fuchsl	LMU University Hospital	Single-Nuclei Multiomics Reveal Heterogeneous Regulatory Circuits Underlying Human Dendritic Cell Response to Nucleic Acid Stimuli
P10	Tomoko Asatsuma-Okumura	Nippon Medical School	BATF Deficiency Impairs CpG-enhanced Antigen-specific CD8 ⁺ T Cell Proliferation in Association with Altered Dendritic Cell Responses
P11	Nathanael B. Kegel	Philipps-Universitat Marburg	Starvation Licenses the pDC Cell Line CAL-1 for IFN- α Production
P12	Manuele Rebsamen	University of Lausanne	The SLC15A4-TASL Complex Is Essential for Lupus Development.
P13	Jose Luis Guzman Martin	Uniklinikum Bonn	Disrupting MAVS Filament Extension Abrogates Antiviral Immunity
P14	Zhihan Zhang	Center of excellence in molecular cell science	MAVS-IRF1 activation triggered by cholesterol deficiency in T cells dampens T cell anti-tumor function
P15	Natalia Sampaio	Hudson Institute of Medical Research	Annexin A2 mediates RIG-I-like receptor responses to viral infection
P16	Wen Song	Singapore Immunology Network (SiGN), A*STAR	G3BP1 Methylation by PRMT5 Facilitates Its Recruitment of TBK1 for IRF3 Activation during Host Response to Foreign Ribonucleic Acids
P17	Chien-Ming Chen	National Cheng Kung University	The spatiotemporal interplay between RIG-I-like receptors and endosomes

P18	Annick Kooij	Leiden University Medical Centre	A Paramyxovirus V Protein-Inspired Peptide Strategy for Selective MDA5 and LGP2 Inhibition and Blockade of Type I/III Interferon-Driven Inflammation
P19	Mariana Marques	The Pirbright Institute	The Assembly of Stress Granules is Dispensable for Innate Immune Activation Following dsRNA Sensing and FMDV Infection
P20	Chien-I Yang	Johns Hopkins University	Ribosomes Sequester dsRNA Sensors to Modulate Innate Immunity
P21	Jacki Heraud-Farlow	Walter and Eliza Hall Institute of Medical Research	Uncovering New Mechanisms That Restrain Innate Sensing of Self Double-Stranded RNA
P22	Xinshu (Grace) Xiao	University of California, Los Angeles	hnRNPM and ADAR1 Cooperate to Limit Endogenous dsRNA Access to MDA5
P23	Yan De Souza Angelo	Institut Imagine	Loss of RMND1 Disrupts Mitochondrial RNA Processing and Triggers Type I Interferon Signalling
P24	Felix Bender	University Hospital Bonn	SALDOR-Seq: a novel workflow for full-length sequencing of long dsRNA
P25	Soyoung Park	Institute of Science Tokyo	A Fluorescent RNA Imaging Platform for Visualizing ADAR1 Z-Domain Interactions in Cells
P26	Elizabeth Horton	University of Wisconsin-Madison	Non-Invasive Real-Time Tracking of Immunogenic RNA Emergence During Influenza Virus Infection
P27	Daniel Goncalves-Carneiro	Imperial College London	Structure-guided discovery of ubiquitin ligase control in antiviral nucleic acid sensing
P28	Theresa Franz	Technical University of Munich (TUM)	OASL regulation of NA sensing pathways
P29	Philipp Schult	University Hospital Bonn	NSUN2 shapes the innate immune program of A549
P30	Larisa Labzin	The University of Queensland	Innate immune sensing of human influenza A virus infection: challenging established paradigms
P31	Youngran Park	Seoul National University	dsRNA Shielding by Viral Proteins Enhances Exogenous RNA Expression
P32	Fuminori Sakurai	Kindai University	Anti-fibrotic Effects of Hairpin RNA, a RIG-I Ligand, in Hepatic Stellate Cells
P33	Toyodome Rina	Nara Institute of Science and Technology (NAIST)	A CREB3-Dependent Golgi Stress Response Sustains Antiviral Signaling During HSV-1 Infection
P34	Kojiro Mukai	National Institutes of Health	Innate Sensor Responses Set a Supra-Unitary Threshold for Viruses to Successfully Infect Cells
P35	Ann-Sophie Heilmann	University Hospital Bonn	Intratumoral IL-2 and RIG-I immunotherapy increases survival in melanoma tumor bearing mice

P36	Ahmet Bugra Tufan	Harvard Medical School	MyD88 is a Pattern Recognition Receptor for Cytosolic dsDNA
P37	Anna Swirk	Trinity College Dublin	Regulation of Influenza A virus (IAV) induced inflammation by PYHIN1 in epithelial cells
P38	Marcin Baran	Trinity College Dublin	IFI16 regulation of cytokine induced responses in human keratinocytes
P39	Sarah Hayes	Trinity College Dublin	Regulation of Dendritic Cell Functions by PYHIN Proteins
P40	Jessica Davis	Trinity College Dublin, Ireland	Exploring the Role of PYHIN Proteins in Adjuvant-Induced Immunity
P41	Callie Wong	University of Edinburgh	TRAP Loss-of-function and Type I Interferon Signalling in SPENCD
P42	Swagato Bhattacharjee	Technische Universität Dresden, Germany	Loss of the SUMO protease SENP7 dysregulates nucleic acid immunity
P43	Leonard Drees	Max Planck Institute for Multidisciplinary Sciences	Characterization of a novel invertebrate DNA sensor with ancient roots in bacterial immune defense
P44	Tamara Schorpp	Institute of Clinical Chemistry and Clinical Pharmacology, University Hospital Bonn	The cGAS N-Terminus Enables Full cGAS Activation by Short dsDNA
P45	Aysenur Yikilmazsoy	LMU	Redox-Dependent Self-Tetramerization of Human cGAS Links Metabolic Stress to Innate Immune Activation
P46	Marta Aleksejczuk	Dresden University of Technology	Modulation of Cyclic GMP-AMP Synthase Activity by RNA and RNA-Binding Protein G3BP1
P47	Tomoya Kujirai	The University of Tokyo	Structural Analysis of Innate Immune DNA Sensor ? Chromatin Complexes
P48	Jian Zhao	Aarhus University	Ceramide retains STING in the endoplasmic reticulum to control activation of signaling
P49	Josi Arnold	University Hospital Bonn	Proteome-wide spatiotemporal Dissection of STING trafficking and signal transduction
P50	Ryo Narita	Aarhus University	Different Routes of STING Agonist Delivery Dictate Distinct Requirements for Signaling Molecules
P51	Chantal Stappenbelt	UMCG	Identification of genes that upon over-expression suppress STING-mediated inflammatory signalling
P52	Melanie Hega	University Hospital Bonn	In vivo deconvolution of STING-driven inflammation
P53	R. Onur Eren	CECAD, University of Cologne	Modulating Innate Immune Signaling Pathways in STING-Driven Inflammatory Diseases
P54	Sebastian Montealegre	Institut Curie	Investigating the interplay between STING and cholesterol.

P55	Toshio Kanno	Kazusa DNA Research Institute	Fatty acid desaturation controls STING activation via self-DNA Leakage
P56	Makoto Hayashi	IFOM ETS / Kyoto University	Nuclear-derived Extrachromosomal Circular DNA Fails to Trigger Productive cGAS-STING Signaling
P57	Daxing Gao	University of Science and Technology of China	An Age-Regulated C9ORF72-LC3B Axis Clears Cytosolic DNA to Restrain cGAS-Dependent Senescence
P58	Bruno Ramos	Blizard Institute, Queen Mary University of London, UK	Doxorubicin drives cGAS sensing of mitochondrial DNA independently of STING
P59	Alice Lepelley	Imagine Institute	Broken Mitochondria, Unleashed Interferons: Insights from Genetic Diseases
P60	Suchitra Jena	International Centre for Genetic Engineering and Biotechnology	cGAS-STING at the Intersection of Inflammaging and Tuberculosis
P61	Burcu Temizoz	The University of Tokyo (IMSUT)	Microbial Dysbiosis Fuels STING-Driven Autoinflammation Through Cyclic Dinucleotides
P62	Lingyin Li	Arc Institute	Extracellular cGAMP transmission drives neurodegeneration
P63	Miguel Godinho Ferreira	Institute for Research on Cancer and Aging of Nice (IRCAN)	Telomere Shortening Cause Aging and Cancer via cGAS-STING
P64	Sarah Rosing	University of Tübingen	Inherited loss-of-function mutation in the adaptor protein STING is associated with elevated infection rate and immune dysregulation
P65	Leonie Unterholzner	Lancaster University	Innate immune sensing of stalled DNA replication forks in the nucleus
P66	Hideo Negishi	The University of Tokyo	Nucleocytopsis: Novel mechanism of Type I IFN Response by Nuclear DNA
P67	XU Kaili	The University of Osaka	Structural Basis of Specific Cytokine RNA Recognition by Regnase-1 and Its Binding Partners
P68	Arthur Millius	The University of Osaka	A Small-Molecule Inhibitor of Regnase-1 Activates Immune Responses
P69	Sato Hugo Angel	The University of Osaka	P-32 Residual Regnase-1-deficient CD4+ T cells enhance autoantibody production
P70	Akihiko Murata	The University of Osaka	Endoribonuclease Regnase-1 Deficient Hepatocytes are Resistant to MASH Development
P71	Yuxiang Liu	Institute for Advanced Medical Sciences, Nippon Medical School	MALAT1, a Canonical Nuclear lncRNA, Controls Human Macrophage Inflammation through Mitochondrial HADHB
P72	Md Ariful Islam	Center for Advanced Modalities and DDS	Synthesis and Evaluation of Modified Nucleoside Triphosphate-Containing mRNA Molecules

		(CAmaD), The University of Osaka	
P73	Svenja Dudek	University Hospital Bonn	Design of immunosilent mRNA adjuvanted by a RIG-I-agonist for tunable innate immune activation
P74	Kaiwen Liu	The University of Tokyo	IL-33 Links Cytosolic RNA Sensing and Adaptive Responses in mRNA Vaccination
P75	Nevien Abdelkhalek	The University of Osaka	AI-Guided Translation Efficiency Prediction Modeling for Balanced Multivalent mRNA Vaccine Design
P76	So-Hee Hong	Ewha Womans University	IRES-modified ssRNA adjuvant elicits potent immune responses with enhanced safety in early-life mice
P77	Yasuko Rikihisa	The Ohio State University	Anti-infective Nanobodies Delivered by mRNA-LNP Inhibit Intracellular Rickettsial Pathogens
P78	Tomaz Einfalt	Novartis Pharma AG	Enabling Extrahepatic Delivery of siRNA Through Increased Potency, Advanced Chemistry and bioconjugation
P79	Hata Moeka	Institute of Science Tokyo	Immune Induction Mechanisms of Artificial Nucleic Acids and Immune Evasion using Drug Delivery System based on Extracellular Vesicles
P80	Wei-Chien Huang	China Medical University	RNA-guided degradation of DDB2 by lincRNA-p21-derived oligonucleotides restores chemosensitivity in breast cancer.
P81	Ivana Jorgacevic	University Bonn, University Hospital Bonn	Chronic Interferon Alpha Signalling Causes ZBP1-dependent Immunopathology
P82	Paula Verneuil Carnerero	Uniklinikum Bonn, University of Bonn	Sensing of nucleic acids in immune-mediated glomerulonephritis.
P83	Tanaka Towa	The University of Nara Institute of Science and Technology	Gelsolin Protects Against Imiquimod-Induced Psoriatic Inflammation by Regulating the MAM-ER Stress Axis
P84	Izumi Sasaki	Wakayama medical university	Roles of Interleukin-24 in Proteasome-Associated Autoinflammatory Syndrome with Immunodeficiency Model Mice
P85	Shuhei Higuchi	The University of Osaka	Innate Immune Activation Induces Cryptic Self-Antigen Presentation to Drive Autoreactive T Cell Activation
P86	Zhaorong Chen	University of Bonn	Cell-free DNA as a Promoter of Bacterial Superinfection in Viral ARDS
P87	Nan Yan	University of Texas Southwestern Medical Center	STING Proton Channel Controls T Cell Death and Tumour Immune Evasion
P88	Moeko Minakuchi	Wistar Institute	Combined ADAR1 Inhibitor and 5AZA-CdR Treatment Reveals Cellular State-Dependent Innate Immune Vulnerability in Acral Melanoma

P89	Chih-Peng Chang	National Cheng Kung University	Integrin-Linked Kinase Facilitates Inflammasome Priming During Dengue Virus Infection Through the TBK1?Akt?NF- κ B Axis
P90	Asuka Joy Tobuse	The University of Tokyo	Innate Immune Memory by DNA and β -Glucan
P91	Yuta Tsukamoto	University of Bonn	Targeting Cap1 RNA Maturation of SARS-CoV-2 and Influenza A Virus
P92	Rinskje Tjeerdsma	University Medical Center Groningen	Cell Cycle Checkpoint Inhibitors as Innate Immune Response Inducers to Enhance Anti-Tumour Immune Responses
P93	Tatum Melati Andini	The University of Osaka	Macrophage Immunomodulatory Activity and Anti-Proliferative Properties of an Amino Acid-Modified Thrombin Aptamer
P94	Tamako Aiba	The University of Tokyo	Selective oncolysis via oncomiR-driven DNA self assembly
P95	Gabrielle Haas	CNRS M3i UPR9022	The I κ B Protein Charon Is Essential for Relish Activation in the Drosophila STING Pathway