

Poster Presentation

P1 PI3K-Akt-mTORC1-S6K1/2 axis controls Th17 differentiation

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P2 Qualitative and quantitative evaluation of stromal cells in bleomycin-induced pulmonary fibrosis

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P3 Acute autoimmune inflammation of the central nervous system by IL-17-secreting T cells is controlled by NR4A2

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P4 IL-17-producing NK1.1⁻ CD27⁻ $\gamma\delta$ T cells promote tumor malignant progression by inducing inflammatory microenvironment

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P5 Characterization of gene expression profiles of early or late progressor cancer cells in inflammation-associated malignant progression model

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P6 Bioluminescent imaging of inflammatory tissue microenvironment in 4T1 breast cancer model

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P7 MUC-1 plays an important role in enhancement of motility and invasiveness of human malignant mesothelioma cells under hypoxia

Houman Goudarzi¹, Hisashi Iizasa¹, Masako Furuhashi¹, Rie Nakane¹, Seitaro Nakazawa¹, Shanshan Liang¹, Kazuyoshi Yanagihara², Takanori Kubo³, Koji Nakagawa⁴, Masanobu Kobayashi⁵, Yasuhiro Hida⁶, Tatsuro Irimura⁷ and Jun-ichi Hamada¹
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P8 MUC1 glycoforms have impact on protective immunity against MUC1-expressing tumor cells through the function of antigen presenting cells bearing MGL1/MGL2

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- P9 Aggrus/podoplanin-induced pulmonary metastasis is regulated by O-glycosylation**
Satoshi Takagi and Naoya Fujita
Division of Experimental Chemotherapy, Cancer Chemotherapy Center, Japanese Foundation for Cancer Research
- P10 HMMC-1, a human monoclonal antibody to fucosylated core 1 O-glycan, suppresses growth of uterine endometrial cancer cells**
Fumika Inoue¹, Fumiko Oikawa², Atsushi Suzuki², Kyoko Tanaka², Eiichiro Tominaga², Daisuke Aoki², and Kyoko Kojima-Aikawa¹
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- P11 Multifunctional Nanobeacon for imaging Thomsen-Friedenreich antigen-associated colorectal cancer**
Hironori Kumagai^{1,2}, Wellington Pham^{1,3,4,5,6}, Makoto Kataoka^{1,7}, Ken-ichiro Hiwatari², James McBride⁸, Kevin J. Wilson¹, Hiroyuki Tachikawa², Ryoji Kimura², Kunio Nakamura², Eric H. Liu⁹, John C. Gore^{1,3,4,10} and Shinji Sakuma⁷
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- P12 On-plate pyrene derivatization for MALDI-MS of glycopeptides advantageous to understanding diseases**
Junko Amano, Kazuko Hirose, Toshio Nakamura, Shou Takashima
The Noguchi Institute
- P13 Molecular genetic basis of the human Forssman glycolipid antigen negativity**
Miyako Yamamoto, Emili Cid, and Fumiichiro Yamamoto
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- P14 Cell glycolipids customization by modular expression of glycosyltransferases**
Emili Cid, Miyako Yamamoto, Marcus Buschbeck and Fumiichiro Yamamoto
Institut de Medicina Predictiva i Personalitzada del Càncer (IMPPC), Barcelona, Spain
- P15 Lipidomic Analysis of Breast Cancer Cells by Imaging Mass Spectrometry**
Yoshimi Ide, Michihiko Waki, Hiroyuki Ogura, Norihiko Shiiya, Mitsutoshi Setou
Department of Cell Biology and Anatomy, Hamamatsu University School of Medicine
- P16 Identification of target proteins specific for a glycosyltransferase isozyme by glycoproteomic analysis of a glyco-gene deleted model organism**
Daisuke Sugahara¹, Hiroyuki Kaji¹, Kazushi Sugihara², Masahide Asano², Hisashi Narimatsu¹
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- P17 Association of DCAR1 with putative cis-ligands on mouse CD8⁺ cDCs**
Asaka Zako, Takehiko Mitsuyama, Shinsaku Abe, Atsushi Kishimoto, Yosuke Kameda, Kazuo Yamamoto, Naoki Matsumoto
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- P18 Expression of DCIR1 on myeloid cells analyzed using a novel highly specific anti-DCIR1 antibody**
Atsushi Kishimoto, Kenta Terauchi, Takumi Kojima, Kazuo Yamamoto, Naoki Matsumoto
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- P19 Role of malectin in Glc2Man9GlcNAc2-dependent quality control of α 1-antitrypsin**
- Yang Chen¹, Dan Hu¹, Rikio Yabe², Hiroaki Tateno², Sheng-Ying Qin¹, Naoki Matsumoto¹, Jun Hirabayashi², and Kazuo Yamamoto¹
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- P20 Malectin forms a complex with ribophorin I for enhanced association with misfolded glycoproteins**
- Sheng-Ying Qin¹, Dan Hu¹, Kana Matsumoto², Koh Takeda¹, Naoki Matsumoto¹, Yoshiki Yamaguchi², and Kazuo Yamamoto¹
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- P21 Reconstruction of ER glycan profiles in diabetes rat using synthetic glycan probe**
- Shogo Iwamoto¹, Yukishige Ito³, Kiichiro Totani², Ichiro Matsuo¹
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- P22 Modification of N-glycosylation Modulates the Secretion and Lipolytic Function of Apoptosis Inhibitor of Macrophage (AIM)**
- Mayumi Mori, Hiroki Kimura, Yoshihiro Iwamura, Satoko Arai, Toru Miyazaki
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- P23 Analysis of the immune response against capsular polysaccharides of *Streptococcus pneumoniae* and the ligands of CD83, a candidate for sugar-recognizing molecule**
- Makoto Tsujiji^{*}, Yusuke Ando^{*}, Mai Tanaka[#], Nori Imai[#], Koji Hayashizaki[#], Chisato Kurisaka^{*}, Teruaki Oku^{*}, Takeshi Tsubata[#] and Tsutomu Tsujiji^{*}
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- P24 Sialic acid dependent susceptibilities of three mouse strains against *Entamoeba histolytica* infection**
- Kentaro Kato¹, Yasuhiro Takegawa², Katherine S. Ralston³, Carol A. Gilchrist³, Shinjiro Hamano¹, William A. Petri Jr.³, Yasuro Shinohara²
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- P25 Split-virion influenza vaccines induce high levels of virus-specific antibodies upon responses to a booster immunization.**
- Kayoko Sato¹, Yoshimasa Takahashi², Hideki Asanuma¹, Manabu Ato², Masato Tashiro¹, Shigeyuki Itamura¹.
- ¹Influenza Virus Research Center, ²Department of Immunology, National Institute of Infectious Diseases
- P26 Host soluble galectin-1 (but not galectin-3) promotes HIV-1 infection through a direct interaction with viral gp120 and host CD4**
- Christian St-Pierre¹, Hiroshi Many³, Michel Ouellet², Tamao Endo³, Michel J. Tremblay² and Sachiko Sato¹
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- P27 LARGE-dependent modification of dystroglycan at Thr-317/319 is required for laminin binding and arenavirus infection**
Yuji Hara¹, Motoi Kanagawa¹, Stefan Kunz², Takako Yoshida-Moriguchi¹, Zihan Zhu¹, Steven J. Burden³, Michael B.A. Oldstone⁴, and Kevin P. Campbell¹
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- P28 Rumi functions as both a protein O-glucosyltransferase and a protein O-xylosyltransferase**
Hideyuki Takeuchi¹, Hamed Jafar-Nejad², Megan A. Macnaughtan³, and Robert S. Haltiwanger¹
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- P29 O-GlcNAc modification of proteins and diabetes**
Yoshihiro Akimoto¹, Yuri Miura², Tosifusa Toda³, Margreet A Wolfert^{4,5}, Lance Wells^{4,6}, Geert-Jan Boons^{4,5}, Gerald W Hart⁷, Tamao Endo², and Hayato Kawakami
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- P30 Novel Anti-Carbohydrate Antibodies Reveal the Cooperative Function of Sulfated N- and O-Glycans in Lymphocyte Homing**
Hiroto Kawashima
School of Pharmaceutical Sciences, University of Shizuoka
- P31 Sulfated Glycosaminoglycans Are Required for Specific and Sensitive Fibroblast Growth Factor (FGF) 19 Signaling**
Masashi Suzuki, Masao Nakamura, Yuriko Uehara, Masahiro Asada, and Toru Imamura
Signaling Molecules Research Group, Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)
- P32 Involvement of heparanase in local and systemic inflammation**
Hiroaki Shida¹, Mayumi Sue¹, Noriko Komatsu¹, Michihiko Waki¹, Yoshio Nishimura², Motowo Nakajima³, Nobuaki Higashi¹ and Tatsuro Irimura¹
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- P33 The significance of the glycan chains of the pseudoproteoglycans (pseudoPGs) that simulate PG macromolecular structures on an anti-HIV-1 activity**
Fumie Kano¹, Kosuke Nakamura¹, Takahiro Otsuki², Haruyo Mori³, Hiroo Hoshino², Hiromi Sakagami¹, Haruko Ogawa^{1,4}
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