APBP'15 Program (final version 13/4/15)

Wednesday, April 22

13:40-13:45Opening [Room 414&415]

Opening Remarks

13:40 **T. Omatsu,** Conference Chair of OMC'15, Chiba Univ., Japan

13:45-16:15OMC & APBP Joint Session [Room 414&415]

Chair: H. Ishihara, Osaka Pref. Univ., Japan
E. Okada, Keio Univ., Japan

OMC&APBP-1 **(Invited) Angular momentum of light in optical tweezers and application in cell biology**
13:45 H. Rubinsztein-Dunlop, S. Zhang, D. Carberry, T. Nienimen
Univ. of Queensland, Australia

OMC&APBP-2 **(Invited) Optical tweezers for investigation of mechanical property of a cell**
14:15 T.Sugiura
Nara Institute of Science and Technology, Japan

----- Break （14:45-15:15）-----

OMC&APBP-3 **(Invited) Combined optical and acoustic trapping**
15:15 G. Thalhammer, M.Ritsch-Marte
Medical Univ. of Innsbruck, Austria

OMC&APBP-4 **(Invited) Molecular mechanism of efficient muscle contraction revealed by single molecule approaches**
15:45 M. Kaya, T. Washio, T. Hisada, H. Higuchi
Univ. of Tokyo, Japan

16:15-16:20 Closing [Room 414&415]

Closing Remarks

16:15 **T. Iwai,** Conference Chair of APBP'15, Tokyo Univ. of Agri. & Tech., Japan

Thursday, April 23

9:10-9:15 Opening [Room 303]

Opening Remarks

9:10 **T. Iwai,** Conference Chair of APBP'15
Tokyo Univ. of Agri. & Tech., Japan

9:15-11:00 APBP1: Optical Coherence Imaging [Room 303]

Chairs: M. Ohmi, Program Committee co-Chair,Osaka Univ., Japan
Y. Yasuno, Program Committee co-Chair, Univ. of Tsukuba, Japan

APBP1-1 **(Invited) Optical coherence tomography based on resonant absorption and scattering of localized**
9:15 **surface plasmon on Au nanorings**
C.-K. Yu, T.-T. Chi, Y.-C. Tu, S.-Y. Chen, M.-J. Li, C.-K. Chu, Y.-W. Kiang, C.C. Yang
Natl Taiwan Univ., Taiwan

APBP1-2 **Ultra-high resolution polarization-sensitive optical coherence tomography for retinal blood vessel wall**
9:45 **measurements**
B. Cense [1)], I. Ibrahim [1)], P. Mondal[1)], M. Miura [2)], E. G. Ruiz [3)]
[1)] Utsunomiya Univ., Japan, [2)] Tokyo Med. Univ., Japan, [3)] National Instruments Corp., Japan

APBP1-3 **Optical coherence tomography guided laser incision of cornea and lens**
10:00 T. J. Eom[1)], B. Lee [1)], B.-M. Kim [2)], C. K. Joo[3)]
[1)] GIST, Korea,[2)] Korea Univ., Korea,[3)] Seoul St. Mary's Hosp., Korea

APBP1-4 **Longitudinal spatial coherence gated high-resolution full-field optical tomography and topography**
10:15 **using laser light source**
D. S. Mehta [1)], S. Nandy[2)], V. Srivastava [3)], A. Ahmed [1)]
[1)] Indian Inst. of Tech., India, [2)] Univ. of Connecticut, USA, [3)] Amity Uviv., India

APBP1-5 **Spectral domain optical coherence tomography with balanced detection using a single**
10:30 **line-scancamera and a time delay optical fiber**
M. G. Hyeon [1)], H.-J. Kim [1)], B.-M. Kim [1)], T. J. Eom [2)]
[1)] Korea Univ., Korea, [2)] GIST, Korea

APBP1-6 **Clinical validation of optical coherence tomography derived Index of plaque attenuation**
10:45 M. Gnanadesigan [1)], T. Kameyama [2)], A. van der Steen [1)], A. Karanasos [1)], N. Dietzhuijzen[1)], K. Witberg [1)], J. M. Lighthart [1)], E. Regar[1)], G. van Soest[1)]
[1)] Erasmus MC, Netherlands, [2)] Tohoku Univ., Japan

----- Break （11:00-11:15）-----

11:15-12:15 APBP2: Poster Flash Presentation [Room 303]

Chairs: K. Saito, Program Committee Member, Tokyo Med. & Dent. Univ., Japan
Y. Ozeki, Program Committee Member, Univ. of Tokyo, Japan

APBPp2-1 **Phase-contrast optical microscopy for biological tissues using oblique laser illumination**
Y. Miyake, M. Hisaka, T. Ikuta
Osaka Electro-Commu. Univ., Japan

APBPp2-2 **A software utility for tracking FUCCI-labeled gastric cancer cells with multicontrast time-lapse images**
H. Kawaguchi [1)], Y. Maeyama [1),2)], S. Kikuchi [3)], M. Otsu [2)], H. Ito [1)]
[1)] Natl Inst. of Radiol. Sci., Japan, [2)] Univ. of Tokyo, Japan, [3)] Hyogo Coll. of Med., Japan

APBPp2-3 **Proposal of Raman Fourier-spectroscopic tomography for iPS solid organs in the field of regenerative medicine**
S. Ogawa, M. Fujiwara, P. K. W. Abeygunawardhana, S. Sato, S. Suzuki, A. Nishiyama, K. Wada, I. Ishimaru
Kagawa Univ., Japan

APBPp2-4 **Design of implantable probe for simultaneous measurement of NIRS, ECoG and thermometry**
S. Esaki [1)], T. Yamakawa [2)], M Niwayama [1)]
[1)] Shizuoka Univ., Japan, [2)] Kumamoto Univ., Japan

APBPp2-5 **Full field OCT using short multimode fiber probe**
M. Sato [1)], Y. Sekine [1)], T. Takahashi [1)], I. Nishidate [2)]
[1)] Yamagata Univ., Japan, [2)] Tokyo Univ. of Agri. & Tech., Japan

APBPp2-6 **Stability in phase and intensity measurement using quasi single shot wide field optical coherence tomography**
T. Anna [1)], S. Kimura 1), D. S. Mehta [2)], M. Sato [1)]
[1)] Yamagata Univ., Japan, [2)] Indian Inst. of Tech., India

APBPp2-7 **High-speed en face optical coherence tomography using KTN optical beam deflector**
M. Ohmi [1)], A. Fukuda [1)], Y. Shinya [1)], J. Miyazu [2)], M. Ueno [2)], S. Toyoda [2)], J. Kobayashi [2)]
[1)] Osaka Univ., Japan, [2)] NTT Corp., Japan

APBPp2-8 **In vivo retinal imaging with variable lateral resolution using optically deviated focusing based high-resolution optical coherence tomography**
R. E. Henry Wijeisnghe, K. Park, J. Kim
Kyungpook Natl Univ., Korea

APBPp2-9 **Influence of spatial coherence on visible-LED OCT imaging**
D. Kaneko, T. Iwai
Tokyo Univ. of Agri. & Tech., Japan

APBPp2-10 **All single mode fiber optics spectral domain polarization sensitive optical coherence tomography**
J.-P. Xu, W.-C. Kuo
Natl Yang-Ming Univ., Taiwan

APBPp2-11 **Characterization of the responses of cerebral vasculature due to electrical stimulation using OCT**
B.-H. Lin, L. Yang, M.-Y. Chiang, Y.-Y. Chen, W.-C. Kuo
Natl Yang-Ming Univ., Taiwan

APBPp2-12 **Photoacoustic imaging system with ultra-thin hollow optical fibers**
A. Seki [1)], K. Iwai [2)], Y. Matsuura [1)]
[1)] Tohoku Univ., Japan, [2)] Sendai Natl Coll. of Tech., Japan

APBPp2-13 **Photo-acoustic analysis of dental pulp using near infrared laser light**
A. Yamada [1)], S. Kakino [2)], Y. Matsuura [1)]
[1)] Tohoku Univ., Japan, [2)] Tokyo Med. & Dent. Univ., Japan

APBPp2-14 **Fundamental study on control of motion of nanoparticles using scattering field of laser light**
N. Yokoi [1)], Y. Aizu [2)]
[1)] Asahikawa Natl Coll. of Tech., Japan, [2)] Muroran Inst. of Tech., Japan

APBPp2-15 **Dynamic observation of blood coagulation process in digital holographic microscopy**
H. Funamizu, Y. Watanabe, T. Kumagai, Y. Aizu
Muroran Inst. of Tech., Japan

APBPp2-16 **Diffusing topographic imaging of melanin layers distributed in a phantom**
Y. Yokoyama, T. Iwai
Tokyo Univ. of Agri. & Tech., Japan

APBPp2-17 **Optical imaging of simulated blood vessel dynamics by laser scanning topography**
N. Shinonaga, T. Iwai
Tokyo Univ. of Agri. & Tech., Japan

APBPp2-18 **Combined probe for optically assisted ultrasonic velocity-change imaging aimed at detection of unstable blood vessel plaque**
S. Tanigawa, K. Mano, K. Wada, T. Matsunaka, H. Horinaka
Osaka Pref. Univ., Japan

APBPp2-19 **Near-infrared fluorescence fluctuation measurement system - Its design and applications**
G. Nishimura
Hokkaido Univ., Japan

APBPp2-20 **Investigation of age-associated beating behaviors between different heart chambers of Drosophilae using optical coherence tomography**
T.-H. Hsiung [1)], J.-T. Wu [2)], C. C. Yang [2)], M.-T. Tsai [1)]
[1)] Chang Gung Univ., Taiwan, [2)] Natl Taiwan Univ., Taiwan

----- Lunch Break （12:15-13:15）-----

13:15-14:00 APBP3: Poster Flash Presentation -2 [Room 303]

Chair: S. Kawauchi, Program Committee Member, Natl Def. Med. Coll., Japan
I. Nishidate, Program Committee Member, Tokyo Univ. of Agri. & Tech., Japan

APBPp3-1 **Development of near-infrared multispectral angioscope at wavelengths around 1200 nm for the quantitative diagnosis of atherosclerotic plaque**
D. Matsui, K. Ishii, R. Nagao, K. Awazu
Osaka Univ., Japan

APBPp3-2 **Simultaneous measurement of vasomotion and plethysmogram in human skin during Stroop test**
A. Hoshi [1)], I. Nishidate [1)], K Niizeki [2)], Y. Aizu [3)]
[1)] Tokyo Univ. of Agri. & Tech., Japan, [2)] Yamagata Univ., Japan, [3)] Muroran Inst. of Tech., Japan

APBPp3-3 **Non-contact imaging of plethysmogram and tissue oxygen saturation during change in fraction of inspired oxygen**
R. Sato [1)], I. Nishidate [1)], K. Niizeki [2)], Y. Aizu [3)]
[1)] Tokyo Univ. of Agri. and Tech., Japan, [2)] Yamagata Univ., Japan, [3)] Muroran Inst. of Tech., Japan

APBPp3-4 **Evaluation of light scattering properties and blood content in skin tissue based on diffuse reflectance images at isosbestic wavelengths of hemoglobin**
T. Yokokawa, I. Nishidate
Tokyo Univ. of Agri. & Tech., Japan

APBPp3-5 **TitleNonlinear estimation of chromophore concentration for human skin based on Monte Carlo simulation**
M. Hirose, N. Tsumura
Chiba Univ., Japan

APBPp3-6 **Effect of the sample thickness on the scattering angular distribution and the anisotropy factor of biological tissue phantom**
K. Ishii, D. Fukutomi, K. Awazu
Osaka Univ., Japan

APBPp3-7 **Error caused by anisotropy factor in optical properties measurement by time-resolved spectroscopy**
K. Nadamoto [1)], Y. Tanikawa [2)], Y. Hoshi [3)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] AIST, Japan, [3)] Tokyo Metro. Inst. of Med. Sci., Japan

APBPp3-8 **Development of muscle activity evaluation method by using time-resolved diffuse optical tomography**
Y. Tanikawa [1)], F. Gao [2)], M. Miyakawa [3)], T. Kiryu [3)], T. Kizuka [4)], S. Okawa [5)], Y. Hoshi [6)], Y. Yamada [7)]
[1)] AIST, Japan, [2)] TianjingUniv, China, [3)] Niigata Univ., Japan, [4)] Univ. of Tsukuba, Japan,
[5)] Natl Def. Med. Coll., Japan, [6)] Tokyo Metro. Inst. of Med. Sci., Japan, [7)] Univ. of Electro-Comm., Japan

APBPp3-9 **Light propagation analysis in the cortical model with three dimensional blood vessel structure obtained by two-photon microscopy**
Y. Yoshimori [1)], T. Kikuchi [1)], H. Takuwa [2)], H. Kawaguchi [2)], H. Ito [2)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] Natl Inst. of Radio. Sci., Japan

APBPp3-10 **Estimation of partial optical path length in the cortical blood vessels from 2D image of exposed cortex**
Y. Yamamoto [1)], T. Kikuchi [1)], Y. Yoshimori[1)], H. Takuwa [2)], H. Kawaguchi [2)], K. Sakaguchi [3)], H. Ito [2)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] Natl Inst. of Radio. Sci., Japan, [3)] Okayama Pref. Univ., Japan

APBPp3-11 **Multispectral imaging of light scattering and hemodynamics of in vivo rat cerebral cortex based on the diffuse reflectance spectroscopy**
T. Ishizuka [1)], K. Yoshida [1)], I. Nishidate [1)], S. Kawauchi[2)], S. Sato [2)], M. Sato [3)]
[1)] Tokyo Univ. of Agri. & Tech., Japan, [2)] Natl Def. Med. Coll., Japan, [3)] Yamagata Univ., Japan

APBPp3-12 **Analysis of spatial sensitivity profile of late-arriving photons in heterogeneous tissue in near-infrared spectroscopy**
N. Wakabayashi, K. Takai, K. Kurihara, E. Okada
Keio Univ., Japan

APBPp3-13 **Improvement of localization error and spatial broadening of diffuse optical imaging by dense probe arrangement**
Y. Sakakibara [1)], K. Kurihara [1),2)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] JSPS, Japan

APBPp3-14 **Low-resolution image reconstruction for diffuse optical topography**
R. Tsuyuki [1)], K. Kurihara[1),2)], S. Okawa [3)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] JSPS, Japan, [3)] Natl Def. Med. Coll., Japan

APBPp3-15 **Image reconstruction for diffuse optical tomography using a realistic human head model including extra-cerebral vasculature**
K. Kurihara [1),2)], H. Kawaguchi [3)], S. Okawa [4)], T. Obata [3)], H. Ito [3)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] JSPS, Japan, [3)] Natl Inst. of Radio. Sci., Japan, [4)] National Def. Med. Coll., Japan

APBPp3-16 **Estimation of partial optical path length in the brain using an anatomical head model for near-infrared spectroscopy**
K. Nakamura [1)], K. Kurihara [1),2)], H. Kawaguchi [3)], H. Ito [3)], T. Obata [3)], E. Okada [1)]
[1)] Keio Univ., Japan, [2)] JSPS, Japan, [3)] Natl Inst. of Radio. Sci., Japan

APBPp3-17 **Neurophotonic research based on functional near-infrared spectroscopy technique**
C.-W. Sun
Natl Chiao Tung Univ., Taiwan

14:00-15:15 Poster View and Discussion[Exhibition Hall C]

----- Break （15:15-15:45）-----

15:45-17:45 APBP4: Diffuse Spectroscopy and Imaging -1 [Room 303]

Chairs: G. Nishimura, Int. Steering Committee Chair,Hokkaido Univ., Japan
Y. Aizu, Int. Steering Committee Member, Muroran Inst. Tech., Japan

APBP4-1 15:45 **(Plenary) High Resolution molecular imaging in vivo with Cherenkov excitation**
B. W. Pogue[1)], R. Zhang[1)], H. Lin[1)], J. Gunn[1)], A. Glaser[1)], J. Andreozzi[1)],S. Vinogradov[2)], S. Jiang[1)], D.J. Gladstone[1)], L.A. Jarvis[1)]
[1)]Dartmouth College, USA, [2)]The Univ. ofPennsylvania, USA

APBP4-2 16:45 **Combined imaging of near-infrared diffuse reflectance and cerebral blood flow for a rat stroke model: progression monitoring and differentiation of the lesions**
S. Kawauchi [1)], I. Nishidate [2)], H. Nawashiro[3)], S. Sato [1)]

APBP4-3 17:00 **In vivo evaluation of optical properties of rat liver using single reflectance fiber probe during ischemia and reperfusion**
S. Akter [1)], I. Nishidate [1)], S. Kawauchi [2)], S. Sato [2)]
[1)] Tokyo Univ. of Agri. & Tech., Japan, [2)] Natl Def. Med. Coll., Japan

APBP4-4 17:15 **TitleMultispectral imaging of intrinsic optical properties of in vivo exposed rat brain using a digital red-green-blue camera**
K. Yoshida [1)], T. Ishizuka [1)], I. Nishidate [1)], S. Kawauchi [2)], S. Sato [2)], M. Sato [3)]
[1)] Tokyo Univ. of Agri. & Tech., Japan, [2)] National Def. Med. Coll., Japan, [3)] Yamagata Univ., Japan

APBP4-5 17:30 **Prediction of temperature distributions around a small heated sphere and its heat production rates using a near-infrared absorption technique**
N. Kakuta [1)], K. Yamada [1)], R. Fujioka [3)], K. Kondo [4)], H. Arimoto [3)], Y. Yamada [4)]
[1)] Tokyo Metro. Univ., Japan, [2)] Tottori Univ., Japan, [3)] AIST, Japan, [4)] The Univ. of Electro-Commu., Japan

Friday, April 24

9:00-10:45 APBP5: Photo Therapeutics and Laser Tissue/CellInteractions [Room 303]

Chairs: S. Sato, Int. Steering Committee Member,Natl Def. Med. Coll., Japan
K. Ishii, Program Committee Member, Osaka Univ., Japan

APBP5-1 9:00 **(Invited) Photodynamic therapy as a salvage treatment for local failure after chemoradiotherapy for esophageal cancer**
T. Yano [1)], M. Muto [2)]
[1)] Natl Cancer Cent. Hosp. East, Japan, [2)] Kyoto Univ., Japan

APBP5-2 9:30 **Cancer cell inactivation based on localized surface plasmon resonance of Au nanoring**
Y.-C. Tu, C.-K. Chu, Y.-W. Chang, C.-K. Chu 1), S.-Y. Chen, T.-T. Chi, Y.-W. Kiang, C. C. Yang
Natl Taiwan Univ., Taiwan

APBP5-3 9:45 **Selective ablation of atherosclerotic lesion with less thermal effect by the control of pulse structure of a quantum cascade laser in the 5.7 μm wavelength range**
K. Hashimura [1),2)], K. Ishii [1)], K. Awazu [1)]
[1)] Osaka Univ., Japan, [2)] JSPS, Japan

APBP5-4 10:00 **Proposal of ultrasonic-assisted spectroscopy for practical usages**
K. Nogo, K. Mori, S. Sato, A. Nishiyama, K. Wada, I. Ishimaru
Kagawa Univ., Japan

APBP5-5 10:15 **Spectroscopic imaging of blood vessels only near skin surfaces for non-invasive blood glucose sensor**
K. Mori, M. Fujiwara, S. Sato, P. K. W. Abeygunawardhansdda, S. Suzuki, A. Nishiyama, K. Wada, I. Ishimaru
Kagawa Univ., Japan

APBP5-6 10:30 **Calculation of scattering coefficient with anisotropy factor considered the wavelength and absorption dependence for biological tissues**
D. Fukutomi, K. Ishii, K. Awazu
Osaka Univ., Japan

----- Break （10:45-11:00）-----

11:00-12:30 APBP6: Photoacoustic Method [Room 303]

Chair: Y. Yamaoka, Program Committee Member, Kyoto Pref. Univ. of Med., Japan
M. Hisaka, Program Committee Member, Osaka Electro-Comm. Univ., Japan

APBP6-1 11:00 **(Invited) Recent progress in photoacoustic imaging: systems, agents, and applications**
A.C. Kim
Pohang Univ. of Sci. & Tech., Korea

APBP6-2 11:30 **Theranostics based on nanosecond laser pulses enabling photomechanical drug delivery and photoacoustic imaging for pharmacokinetics**
Y. Tsunoi [1)], S. Sato [2)], R. Watanabe [1)], S Kawauchi [2)], Y. Miyagawa [2)], K. Araki [2)], A. Shiotani [2)], T.Takemura [2)], M. Terakawa [1)]
[1)] Keio Univ., Japan, [2)] Natl Def. Med. Coll., Japan

APBP6-3 11:45 **Photoacoustic imaging of macrophage with gold nanorod**
AY. Saijo, R. Uamazaki, K. Ogasawara
Tohoku Univ., Japan

APBP6-4 12:00 **Precise cross-sectional imaging using two-photon photoacoustic microscopy with image subtraction and time-gated detection**
AY. Yamaoka [1)], Y. Harada [2)], T. Minamikawa [1)], S. Nishino [2)], S. Maehara [2)], S. Hamano [2)], T. Takamatsu [1)]
[1)] Kyoto Pref. Univ. of Med., Japan, [2)] Terasaki Electric Co., Ltd., Japan

APBP6-5 12:15 **A time delay calibrated method of intraocular pressure**
K.-J Wang [1)], C.-L. Tsai [2)], W. Wang [1)], L. Hsu [2)], K.-Y. Hsu [2)]
[1)] Crystalvue Medical Corp., Taiwan, [2)] Natl Chiao Tung Univ., Taiwan

----- Lunch Break （12:30-13:30）-----

13:30-15:45 APBP7: Optical Microscopy and Nanoscopy [Room 303]

Chairs: K. Fujita, Int. Steering Committee Member,Osaka Univ., Japan
M. Hashimoto, Int. Steering Committee Member, Osaka Univ., Japan

APBP7-1 13:30 **(Invited) Development of a novel spontaneously blinking fluorophore for single-molecule localization microscopy**
Y. Urano, M. Kamiya, S. Uno
Univ. of Tokyo, Japan

APBP7-2 14:00 **New concept of mechanical scanner‐less multiple beams confocal microscope with wavefront modulation**
Y. Takiguchi [1)], M.-W. Seo [2)], K. Kagawa [2)], H. Takamoto [1)],T. Inoue [1)], S. Kawahito [2)], T. Terakawa [3)]
[1)] Hamamatsu Photonics K.K., Japan, [2)] Shizuoka Univ., Japan, [3)] Tokoha Univ., Japan

APBP7-3 14:15 **Subdiffraction-limited live cell imaging using surface-enhanced plasmonics**
W. Lee, T. Son, D. Kim
Yonsei Univ., Korea

APBP7-4 14:30 **Biological high-resolution imaging in wet-condition using cathodoluminescence microscopy**
T. Furukawa [1)], S. Fukushima [1)], H. Niioka [2)], M. Ichimiya [2)], J. Miyake [1)], M. Ashida [1)], T. Araki [1)], M. Hashimoto [1)]
[1)] Osaka Univ., Japan, [2)] The Univ. of Shiga Pref., Japan

APBP7-5 14:45 **Near-infrared multi-wavelength imaging to elucidate ionic diffusion and reaction in aqueous solutions**
AD. Kawashima [1)], N. Kakuta [2)], H. Arimoto[3)], K. Kondo [4)], Y. Yamada [4)]
[1)] Tokyo Metro. Univ., Japan, [2)] AIST, Japan, [3)] Tottori Univ., Japan, [4)] Univ. of Electro-Commu., Japan

APBP7-6 15:00 **Depth-selective reflection phase microscopy using time-varying speckle field**
AY. Choi [1)], P. Hosseini [2)], W. Choi [1)], Z. Yaqoob [2)], P. T. C. So [2)]
[1)] Korea Univ., Korea,[2)] MIT, USA

APBP7-7 15:15 **Functional image of vascular smooth muscle cells grown on biomimetic nanofiber matrices using two-photon microscopy**
S. W. Jun [1)], Y. C. Shin [1)], J. H. Lee [1)], D.-W. Han [1)], C.-S. Kim [1)], C. Y. Dong [2)]
[1)] Pusan Natl Univ., Korea, [2)] Natl Taiwan Univ., Taiwan

APBP7-8 **Visible-wavelength two-photon excitation microscopy**
15:30 K. Fujita, M. Yamanaka, K. Uegaki, K.Saito, Y. Arai, Y. Yonemaru, K. Mochizuki, S. Nicholas, S. Kawata, T. Nagai
Osaka Univ., Japan

----- Break （15:45-16:00）-----

16:00-17:30 APBP8: Diffuse Spectroscopy and Imaging -2[Room 303]

Chairs: Y. Tanikawa, Program Committee Member,AIST, Japan
M. Kawaguchi,Program Committee Member,AIST., Japan

APBP8-1 **(Invited) Recent progress in Time-**
16:00 **Resolved Spectroscopy and its medical applications**
Y. Yamashita [1)], H. Suzuki [2)], K. Yoshimoto [2)], S. Honma [1)], E. Ohmae [1)], Y. Ueda [1)], H. Ogura [2)], H. Sakahara[3)]
[1)] Hamamatsu Photonics K.K., Japan, [2)] Hamamatsu Univ. School of Med., Japan,
[3)] Hyogo Coll. of Med., Japan

APBP8-2 **Analysis of diffuse optical tomography using sequential FDM method**
16:30 H. S. Jang, S. W. Jun, C. S. Kim
Pusan Natl Univ., Korea

APBP8-3 **Study on a reconstruction technique using time domain reflectance measurements data**
16:45 D. Furukawa, G. Nishimura
Hokkaido Univ., Japan

APBP8-4 **Estimation of scattering coefficient using backscattered light from turbid medium**
17:00 K. Shimizu, K. Iinaga, Y. Kato
Hokkaido Univ., Japan

APBP8-5 **Numerical simulation of iterative reconstruction for optical tomography and detection of tumor in**
17:15 **human neck based on the time-dependent 3D radiative transfer equation**
K. Hashimoto [1)], H. Fujii [2)], S. Kohno [1)], E. Okada [3)], S. Okawa [4)], Y. Tanikawa [5)], T. Yoshinaga [6)], Y. Hoshi [1)]
[1)] Tokyo Metro. Inst. of Med. Sci., Japan, [2)] Hokkaido Univ., Japan, [3)] Keio Univ., Japan,
[4)] Natl Def. Med. Coll., Japan, [5)] AIST, Japan, [6)] The Univ. of Tokushima, Japan

17:30-17:50 Award Ceremony and Closing[Room 303]

Award Ceremony
17:30
Closing Remarks
17:45 **G. Nishimura,** Int. Steering Committee Chair,
Hokkaido Univ., Japan