



AC-Analytical Chemistry

Friday, 26 January 2024, Room: Silk 2

- Chairs:** 1) Takashi Kaneta, Okayama University
 2) Jaroon Jakmunee, Chiang Mai University

Time	Code	Title	Presenter
13.00 – 13.30	AC-I-01	High resolution accurate mass mass spectrometry (HRAM MS) for a better understanding of the health and the resilience of ecosystems	Ryszard Lobinski
13.30 – 14.00	AC-I-02	Single-cell analysis using ICP-qMS	Qiuquan Wang
14.00 – 14.15	AC-O-01	Absolute quantification of phenylbutanoids in <i>Zingiber cassumunar</i> Roxb. rhizome by quantitative ¹ H NMR	Chatkamon Lekwongphaiboon
14.15 – 14.30	AC-O-02	Production and certification of certified reference material of andrographolide in <i>Andrographis paniculata</i> powder by a network of competent laboratories approach	Ponhatai Kankaew
14.30 – 14.45	AC-O-03	Gold nanoparticle-based dip strip immunoassay with silver enhancement method for cardiac troponin I detection	Napakporn Poosinuntakul
14.45 – 15.00	AC-O-04	Synthesis of platinum on manganese (IV) oxide nanowires in chitosan scaffold as a catalyst in prostate immunosensor	Suphaporn Chenkhuruthum
15.00 – 15.15	Coffee Break		
15.15 – 16.00	PL-02 at Bhiraj Halls II and III		

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Friday, 26 January 2024, Room: Silk 2

Chairs: 1) Ryszard Lobinski, IPREM - UMR5254

2) Maliwan Amatongchai, Ubon Ratchathani University

Time	Code	Title	Presenter
16.00 – 16.30	AC-I-03	Electrodialytic ionic solutes handling for matrix isolation, purification, and separation	Shin-Ichi Ohira
16.30 – 16.45	AC-O-05	Surfactant-free air bubble flotation for the rapid purification of basic dyes and drugs	Tohru Saitoh
16.45 – 17.00	AC-O-06	Electrical field-flow fractionation for separation and characterization of metal nanoparticles	Takdanai Techarang
17.00 – 17.15	AC-O-07	An efficient method of tyramine detection in food and beverage products by capillary electrophoresis using silica-nanolayer coated capillary with UV detection	Apinya Obma
17.15 – 18.15	<i>Poster Session I at Bhiraj Hall 1</i>		
18.15 – 21.00	<i>Conference Banquet at Bhiraj Halls II and III</i>		



AC-Analytical Chemistry *Saturday*,

27 January 2024, Room: Silk 2

Chairs: 1) Qiuquan Wang, Xiamen University

2) Atitaya Siripinyanond, Mahidol University

Time	Code	Title	Presenter
09.45 – 10.15	AC-I-04	Wearable sweat glucose sensor connected with a smartphone readout	Nadnudda Rodthongkum
10.15 – 10.30	AC-O-08	Development of an electrochemical DNA super-sandwich assay for porcine adulteration detection via one-step immobilization using a polyadenine oligonucleotide approach	Vasita Lapee-e
10.30 – 10.45	AC-O-09	Non-transferrin-bound iron (NTBI) quantification in human plasma using BODIPY-pyridylhydrazone (BODIPY-PH) entrapped in a thin green film coupled with a portable fluorescence-based device	Puttaraksa Naksen
10.45 – 11.00	<i>Coffee Break</i>		
11.00 – 12.00	<i>Poster Session II at Bhiraj Hall I</i>		
12.00 – 13.00	<i>Lunch at EH100</i>		
<p>Chairs: 1) Shin-Ichi Ohira, Kumamoto University 2) Nadnudda Rodthongkum, Chulalongkorn University</p>			
13.00 – 13.30	AC-I-05	Toward user-friendly paper-based analytical devices	Takashi Kaneta
13.30 – 13.45	AC-O-10	Mickey mouse-shaped laminated paper-based analytical device in simultaneous total cholesterol and glucose determination in whole blood	Akarapong Prakobkij
13.45 – 14.00	AC-O-11	Vanadium-doped porous cobalt oxide for its superior peroxidase mimic in simultaneous total cholesterol and glucose testing in whole blood on a 2D paper-based device	Nattasa Kitchawengkul

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Time	Code	Title	Presenter
14.15 – 14.30	AC-O-13	Enhanced detection of favipiravir using a Cu ₂ O@MnO ₂ modified glassy carbon electrode	Nuenghathai Chaiya
14.30 – 14.45	AC-O-14	Development of aptamer-based detection kit by electrochemistry for rapid assessment of vitamin D levels	Sattawat Boonchaleaw
14.45 – 15.00	AC-O-15	Ecological risk assessment of heavy metals in sediment from Klong Luang Reservoir, Chonburi, Thailand	Sophit Buth
15.00 – 15.15	AC-O-16	Effect of some short chain and long chain fatty acids on KOH number of concentrate natural rubber latex	Najmee Hemmad
15.15 – 15.30	Coffee Break		

AC-Analytical Chemistry

Saturday, 27 January 2024, Room: Silk 1

- Chairs:** 1) Orapin Chienthavorn, Kasetsart University
2) Nuanlaor Ratanawimarnwong, Srinakharinwirot University

Time	Code	Title	Presenter
09.45 – 10.15	CST-01	From liquid to gas to unconventional detections	Duangjai Nacapricha
10.15 – 10.30	AC-O-17	Sensitive and selective 3D-ePAD for dual simultaneous analysis of VMA and 5-HIAA tumor markers using graphene screen printed electrode modified with molecularly imprinted polymers for point-of-care application	Kanpitcha Somnet
10.30 – 10.45	AC-O-18	Electrochemical sensor based on amine-functionalized magnetite magnetic nanoparticles and reduced graphene oxide nanocomposites for determination of chloramphenicol	Wasukamol Numphud
10.45 – 11.00	Coffee Break		
11.00 – 12.00	Poster Session II at Bhiraj Hall I		
12.00 – 13.00	Lunch at EH100		



AC-Analytical Chemistry

Saturday, 27 January 2024, Room: Silk 1

Chairs: 1) Duangjai Nacapricha, Mahidol University

2) Thitaphat Ngernsutivorakul, Kasetsart University

Time	Code	Title	Presenter
13.00 – 13.30	CST-06	Origin classification of Thai agricultural products using chemical tools: towards sustainable use of geographical indication	Thanit Praneenararat
13.30 – 13.45	AC-O-19	Development of a paper-based analytical device for simultaneous detection of organophosphate pesticides and heavy metal in fruit and vegetable samples	Supattra Arsawiset
13.45 – 14.00	AC-O-20	Microfluidic paper-based analytical devices for total amino acid detection in processed food	Jaruwan Mettakoonpitak
14.00 – 14.15	AC-O-21	A thread-based analytical device for nitrite detection in food samples	David Ajayi
14.15 – 14.30	AC-O-22	Development of a simple method for measuring nitrate ions in natural water samples	Mika Umeda
14.30 – 14.45	AC-O-23	A novel immunosensor based on cobalt oxide nanocomposite modified single walled carbon nanohorns for the selective detection of aflatoxin B1	Chulalak Damphathik
14.45 – 15.00	AC-O-24	Effect of extraction solvent ratio in biosynthesis of silver nanoparticles, determination of phytochemicals, and investigation of antioxidant activity using <i>Artabotrys suaveolens</i> (Blume) Blume leaves	Fode Toure
15.00 – 15.15	AC-O-25	Effect of Mg compound on KOH number of concentrated natural rubber latex (<i>Hevea brasiliensis</i>)	Nadeeya Samae
15.15 – 15.30	Coffee Break		