

## 6th Asian Network for Natural & Unnatural Materials (ANNUM VI)

Venue : Gifu, Japan

Date : July 27-28, 2018

### Program at a Glance

July 27 (Fri)

Venue: International Conference Room, **Nagaragawa Conventional Center** near Mt. Kinka

	Program	No.	Speaker	Moderator
10:00-10:30	Welcoming & Opening Ceremony (group photo)		President of Gifu University, Prof. H. Moriwaki	Dr. Lim
10:30-11:05	Plenary Lecture	PL-1	Professor Naresh Kumar (UNSW-Sydney)	Professor David StC. Black
11:05-11:17	Research Presentation I	OL-1	Zaher M A Judeh	Prof. Z. Judeh & Dr. V. Suryanti
11:17-11:29		OL-2	Purwantiningsih Sugita	
11:29-11:41		OL-3	Venty Suryanti	
11:41-11:53		OL-4	Harlinda Kuspradini	
11:53-12:05		OL-5	Taridaporn Buajareern	
12:05-12:17		OL-6	Hiroshi Takemori	
12:17-13:20		Lunch & Poster Presentation		
13:20-13:32	Research Presentation II	OL-7	Azhar Fatawi	Prof. Rakesh Kumar & Dr. Dinesh R. Garud
13:32-13:44		OL-8	Agmi Sinta Putri	
13:44-13:56		OL-9	Amol D. Sonawane	
13:56-14:08		OL-10	Afolabi Saheed	
14:08-14:20		OL-11	Daniel Wenholz	
14:20-14:32		OL-12	Vina R. Aldilla	
14:32-14:40	Coffee Break			
14:40-15:10	Keynote Lecture I	KN-1	Dr. Suresh Valiyaveettil (NUS-Singapore)	Prof. B. M. Yamin
15:10-15:22	Research Presentation III	OL-13	Sri Sugiarti	Dr. Hakim & Prof. Bora
15:22-15:34		OL-14	Aulia Sukma Hutama	
15:34-15:46		OL-15	Lukman Hakim	
15:46-15:58		OL-16	Ahmad Marzuki	
15:58-16:10		OL-17	Kazuhiro Manseki	
16:10-16:22		OL-18	Utpal Bora	
16:22-16:34		OL-19	Bohari Mohd Yamin	
16:34-	<i>(Move for UKAI: cormorant fishing) (within walking distance)</i>			
18:00-21:00	UKAI & dinner			

July 28 (Sat) Venue: Multipurpose Room, **Gifu University Satellite Campus** near JR Gifu station

	Program	No.	Speaker	Moderator	Program	No.	Speaker	Moderator
9:00-9:15	Welcome Message (Group photo)			Vice President of Gifu University (International Affairs), Prof. F. Suzuki				
	Venue 1: Multipurpose Room (Large)				Venue 1: Multipurpose Room (Middle)			
9:15-9:45	Keynote Lecture II	KN-2	Dr. Xue-Wei Liu (NTU-Singapore)	Prof. Willcox				
9:45-9:57	Research Presentation IV	OL-20	Irishi N. N. Namboothiri	Prof. Namboothiri & Prof. Olorundare	Research Presentation IV	OL-35	Yessie Widya Sari	Prof. Othaman & Prof. Nitta
9:57-10:09		OL-21	Olorundare Olufunke			OL-36	Akhmad Sabarudin	
10:09-10:21		OL-22	Muhammad Idham Darussalam Mardjan			OL-37	Rizafizah Othaman	
10:21-10:33		OL-23	Asmiyenti Djaliasrin Djalil			OL-38	Takahiro Nitta	
10:33-10:50	Coffee Break							
10:50-11:02	Research Presentation V	OL-24	Roderick W. Bates	Prof. Bates & Prof. Thongpanchang	Research Presentation V	OL-39	Mark Willcox	Prof. Mudasir & Prof. Ikeda
11:02-11:14		OL-25	Tienthong Thongpanchang			OL-40	Mudasir Mudasir	
11:14-11:26		OL-26	Nurul Izzaty Hassan			OL-41	Masato Ikeda	
11:26-11:38		OL-27	Jyh-Tsung Lee			OL-42	Suminar Setiati Achmadi	
11:38-11:50		OL-28	Irmanida Batubara			OL-43	Refilda Suhaili	
11:50-13:00	Lunch							
13:00-13:30	Keynote Lecture III	KN-3	Dr. Tutik Dwi Wahyuningsih (UGM-Indonesia)	Prof. Zein				
13:30-13:42	Research Presentation VI	OL-29	Siti Mariyah Ulfa	Prof. Balagurunathan & Prof. Teramoto	Research Presentation VI	OL-44	Indrawati Usman	Dr. Abd Karim & Dr. Tutik D. W
13:42-13:54		OL-30	Mohamed E. Khalifa			OL-45	Radhia Putri	
13:54-14:06		OL-31	Rakesh Kumar			OL-46	Nurul Huda Abd Karim	
14:06-14:18		OL-32	Rahmiana Zein			OL-47	Tiny A. Koesmawati	
14:18-14:30		OL-33	Kuberan Balagurunathan			OL-48	Eti Rohaeti	
14:30-14:42		OL-34	Yoshikuni Teramoto			OL-49	Md. Serajul Haque Faizi	
14:45-15:20	Closing Ceremony & Poster Award Ceremony							
15:30-	Move to UKAI Museum (Bus will be provided)							
-18:00	UKAI Museum ( <i>within walking distance to the fireworks venue</i> )							
18:00-21:00	Nagara River Fireworks sponsored by Chunichi Shinbun (Chunichi Newspaper)							

6<sup>th</sup> Asian Network for Natural & Unnatural Materials (ANNUM VI)  
**Scientific Program**

**Friday, July 27, 2018**

*Venue: International Conference Room, Nagaragawa Convention Center*

**10:00-10:30**      **Welcome & Opening ceremony (group photo with the President)**  
President of Gifu University, Prof. Hisataka Moriwaki

**10:30-11:05**      **Plenary Lecture**                      [Moderator: Prof. David StC. Black]

**PL-1**

**p.27**

**Design and Synthesis of Short Amphiphilic Cationic Peptidomimetics Based on *N*-phenylacetyl glyoxamide and Biphenyl Backbones as Antibacterial Agents**

Naresh Kumar<sup>a,\*</sup>, Shashidhar Nizalapur<sup>a</sup>, Rajesh Kuppusamy<sup>a</sup>, Mark Willcox<sup>b</sup> and David StC Black<sup>a</sup>

<sup>a</sup>*School of Chemistry, UNSW Sydney, NSW 2052 Australia*

<sup>b</sup>*School of Optometry and Vision Science, UNSW Sydney, NSW 2052 Australia*

**11:05-12:17**      **Research Presentation I (12 min including Q&A)**

[Moderators: Prof. Zaher Judeh and Dr. Venty Suryanti]

**OL-1**

**p.35**

**Synthesis of Phenylpropanoid Sucrose Esters**

Judeh, Z. M. A.,<sup>1\*</sup> Ong, L. L.<sup>1,2</sup>, Khong, D. T.<sup>1</sup>

<sup>1</sup> *School of Chemical and Biomedical Engineering, Nanyang Technological University, 62 Nanyang Drive, N1.2-B1-14, Singapore 637459*

<sup>2</sup> *Nanyang Institute of Technology in Health and Medicine, Interdisciplinary Graduate School, Nanyang Technological University, Singapore*

**OL-2**

**p.36**

**Curcumenol, a Guaiane-Type Sesquiterpene from Indonesian *Curcuma heyneana***

**Rhizome And it's Antibacterial Activity Towards *Staphylococcus aureus* and *Escherichia coli***

P. Sugita<sup>a,\*</sup>, S. O. Firdaus<sup>a</sup>, A. Ilmiawati<sup>a</sup>, and D. U. C. Rahayu<sup>b</sup>

<sup>a</sup>*Department of Chemistry, Institut Pertanian Bogor, Kampus IPB Dramaga Bogor-16680, (West Java) Indonesia*

<sup>b</sup>*Department of Chemistry, Universitas Indonesia, Kampus UI Depok 16424, (West Java) Indonesia*

**OL-3** **p.37**

**Carotenoids as Natural Antioxidant and Sun Protection Agents**

Venty Suryanti<sup>\*</sup>, Fajar R. Wibowo, and Rahmadian A.S.T Haqqi

*Department of Chemistry, Faculty of Mathematics and Natural Sciences, Sebelas Maret University, Jl. Ir. Sutami 36A Surakarta 57126 Indonesia*

**OL-4** **p.38**

**The Potential Essential Oils of Three Plant Species in the Genus *Litsea* from East Kalimantan, Indonesia**

Harlinda Kuspradini<sup>a\*</sup>, Agmi Sinta Putri,<sup>a</sup> Sinta,<sup>a</sup> Edi Sukaton,<sup>a</sup>

*<sup>a</sup>Department Faculty of Forestry, Mulawarman University, Jl. Ki Hajar Dewantara Kampus Gunung Kelua Samarinda, Kalimantan Timur, Indonesia*

**OL-5** **p.39**

**Bioactive Secondary Metabolites from Thai Microorganisms**

Taridaporn Buajarern, Seangaroon Yoiprommarat, Supichar Chokpaiboon, Chanwit Suriyachadkun and Vanicha Vichai

*National Center for Genetic Engineering and Biotechnology (BIOTEC), National Science and Technology Development Agency (NSTDA), Pathum Thani 12120, Thailand*

**OL-6** **p.40**

**Pterosin B, an ingredient in *Pteridium aquilinum*, is helpful for the treatment of osteoarthritis**

Hiroshi Takemori

*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, Yanagido 1-1, Gifu, 501-1193, Japan*

**12:17-13:20      Lunch and Poster Presentation**

**13:20-14:32**      **Research Presentation II** (12 min including Q&A)  
[Moderator: Prof. Rakesh Kumar and Dr. Dinesh R. Garud]

**OL-7** **p.41**

**Secondary Metabolites of Turmeric and Ginger on Various Altitudes and Soil Characteristics**

Azhar Fatawi<sup>a</sup>, Komariah<sup>b\*</sup>, Bambang Pujiasmanto<sup>c</sup>, Irmanida Batubara<sup>d,e</sup>

<sup>a</sup>*Lab. Station for Environmental Analysis (collaborative laboratory of Sebelas Maret University – The UGSAS, Gifu University), Sebelas Maret University (UNS), Jl. Ir. Sutami No. 36A, Kentingan, Surakarta, Indonesia, 57126*

<sup>b</sup>*Soil Science Dept., Fac. of Agriculture, UNS, Jl. Ir. Sutami No. 36A, Kentingan, Surakarta, 57126, Indonesia*

<sup>c</sup>*Dept. of Agrotechnology, Faculty of Agriculture, Sebelas Maret University, Jl. Ir. Sutami No. 36A, Kentingan, Surakarta, 57126, Indonesia*

<sup>d</sup>*Tropical Biopharmaca Research Center, Bogor Agricultural University, Jl. Taman Kencana No. 3, Bogor 16128, Indonesia*

<sup>e</sup>*Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Darmaga Campus, Bogor 16680, Indonesia*

**OL-8** **p.42**

**Biological Activity of *Dryobalanops lanceolata* Burck. Leaves Oil Grown in East Kalimantan, Indonesia**

Agmi Sinta Putri,<sup>a</sup> and Harlinda Kuspradini<sup>a\*</sup>

<sup>a</sup>*Department Faculty of Forestry, Mulawarman University, Jl. Ki Hajar Dewantara Kampus Gunung Kelua Samarinda, Kalimantan Timur, Indonesia*

**OL-9** **p.43**

**Iron-Promoted Cascade Cyclization for the Synthesis of Selenopheno[2',3':4,5]thieno/seleno [2,3-*b*]quinoline: DFT Mechanistic Study and Fluorescence Properties**

Amol D. Sonawane,<sup>a</sup> and Mamoru Koketsu<sup>a</sup>

<sup>a</sup>*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, Gifu 501-1193 Japan*

**OL-10** **p.44**

**Anti-Proliferative and ER Stress Triggering Potentials of *Polyalthia longifolia* extract against Prostate Cancer Cells Using *in-Vitro* and *in-Vivo* Models**

Afolabi Saheed<sup>a</sup>, Olorundare Olufunke<sup>a\*</sup>, Syed Deeba<sup>b</sup>, Mukhtar Hasan<sup>b</sup> and Mamoru Koketsu<sup>c</sup>

<sup>a</sup> *Department of Pharmacology and Therapeutics, Faculty of Basic Medical Sciences, University of Ilorin, Ilorin, Kwara, Nigeria*

<sup>b</sup> *Department of Dermatology, University of Wisconsin, Madison, WI 53706, USA*

<sup>c</sup> *Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University (1-1 Yanagido, Gifu 501-1193, JAPAN)*

**OL-11**

**p.45**

**Discovery and Development of Novel Bacterial RNA Polymerase Holoenzyme Formation Inhibitors**

D. Wenholz<sup>a</sup>, M. Miller<sup>b</sup>, P. Lewis<sup>b</sup>, R. Griffith<sup>a</sup>, N. Kumar<sup>a</sup>

<sup>a</sup>*School of Chemistry, UNSW Sydney, Kensington, Australia*

<sup>b</sup>*School of Environmental and Life Sciences, University of Newcastle, Callaghan, Australia*

**OL-12**

**p.46**

**Glyoxylamide Based Peptide-Mimics as Self-Assembled Gels for Drug Delivery**

Vina R. Aldilla, Nizalapur, S., Martin, A., Yee, E., Ho, K., Thordarson, P., Black, D., Kumar, N<sup>\*</sup>

*School of Chemistry, UNSW Sydney, Kensington, Australia*

**14:32-14:40 Coffee break**

**14:40-15:10 Keynote Lecture I** [Moderator: Prof. Bohari Mohd Yamin]

**KN-1**

**p.29**

**Synthesis and characterisation of oligo- and polyamines**

Suresh Valiyaveetil

*Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543*

**15:10-16:34 Research Presentation III** (12 min including Q&A)

[Moderators: Dr. Lukman Hakim and Prof. Utpal Bora]

**OL-13**

**p.47**

**A Study on the Corrosion Inhibition Properties of Carbon Nanoparticle on Copper**

Sri Sugiarti<sup>\*</sup>, Noviyana Darmawan, and Wulan Suci Ambarwati

*Department of Chemistry, Bogor Agricultural University, Gedung Kimia 1 Lantai 3, Jl Tanjung Kampus IPB Dramaga, Bogor 16680, Indonesia*

**OL-14** **p.48**

**Third-order Density-functional Tight-binding Parameters for Description of Zirconium-containing Systems**

Aulia Sukma Hutama<sup>a,\*</sup>

*<sup>a</sup>Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Sekip Utara, Bulaksumur, Yogyakarta 55281 Indonesia*

**OL-15** **p.49**

**Thermodynamic Stability and Negative Thermal Expansion of EDI Zeolitic-framework Ice**

Lukman Hakim<sup>a,\*</sup>, Masakazu Matsumoto<sup>b</sup>, and Hideki Tanaka<sup>b</sup>

*<sup>a</sup>Department of Chemistry, Brawijaya University, Jl. Veteran, Malang, Indonesia 65145*

*<sup>b</sup>Research Institute of Interdisciplinary Science, Okayama University, Tsushima-naka 3-1-1, Okayama, Japan 700-8530*

**OL-16** **p.50**

**Optical and Thermal Properties of Ag<sup>+</sup>-Doped Tellurite Glasses**

Ahmad Marzuki

*Department of Physics, Sebelas Maret University, Jl. Ir. Sutami 36 A, Surakarta 57126 Indonesia*

**OL-17** **p.51**

**Creation of Organic-inorganic Nanocomposites for Molecular Based Solar Cells**

Kazuhiro Manseki<sup>a,\*</sup> and Takashi Sugiura<sup>a</sup>

*<sup>a</sup>The Graduate School of Natural Science and Technology, Gifu University, 1-1 Yanagido, Gifu, 501-1193, Japan*

**OL-18** **p.52**

**In situ Derived Palladium Nanoparticles for Suzuki and Sonogashira Cross-coupling Reaction**

Utpal Bora

*Department of Chemical Sciences, Tezpur University, Tezpur 784 028, India*

OL-19

p.53

**How Tolerance the Ruthenium Catalysts for the Metathesis of Olefin Bearing Oxygen and Sulfur Functionalities**

Bohari M Yamin<sup>a,\*</sup>, N.W. Awang<sup>a</sup>, M.N.M.A.G.Rasa Astiti<sup>b</sup> and K. Nomura<sup>c</sup>

<sup>a</sup>*Faculty of Science and Technology, Universiti Sains Islam Malaysia, Nilai 71800, Negeri Sembilan, Malaysia*

<sup>b</sup>*Department of Chemistry, Faculty of Science and Engineering, Tokyo Metropolitan University, 1-1 Minami Osawa, Hachioji, Tokyo 192-0397, Japan*

**18:00-20:00 UKAI (cormorant fishing) & Dinner**

**Saturday, July 28, 2018**

*Venue: Multipurpose Room, Gifu University Satellite Campus near JR Gifu station*

*Venue 1: Multipurpose Room (Large)*

**9:00-9:15 Welcome message (group photo with the Vice President)**  
Vice President of Gifu University, Prof. Fumiaki Suzuki

**9:15-9:45 Keynote Lecture II** [Moderator: Prof. Mark Willcox]

**KN-2**

**p.31**

**Glycosciences: The Next Biomolecular Frontiers**

Xue-Wei Liu

*Division of Chemistry and Biological Chemistry, Nanyang Technological University, Singapore 637371*

**9:45-10:33 Research Presentation IV** (12 min including Q&A)

[Moderators: Prof. Irishi N. N. Namboothiri and Prof. Olorundare Olufunke]

OL-20

p.54

**Polycyclic Cage Compounds as Prospective High Energy Density Materials**

Irishi N. N. Namboothiri<sup>a,\*</sup> Arindrajit Chowdhury<sup>b</sup> and Neeraj Kumbhakarna<sup>b</sup>

<sup>a</sup>*Department of Chemistry, Indian Institute of Technology Bombay, Mumbai 400076*

<sup>b</sup>*Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai 400076*

**OL-21** **p.55**

**Cytotoxic Potentials of Clerodendrum volubile extract and its Possible Proteomic Targets**

Olorundare Olufunke<sup>a\*</sup>, Afolabi Saheed<sup>a</sup>, Gyebi Gideon<sup>c</sup>, Syed Deebea<sup>b</sup>, Mukhtar Hasan<sup>b</sup> and Koketsu Mamoru<sup>d</sup>

<sup>a</sup> *Department of Pharmacology and Therapeutics, Faculty of Basic Medical Sciences, University of Ilorin, Ilorin, Kwara, Nigeria*

<sup>b</sup> *Department of Dermatology, University of Wisconsin, Madison, WI 53706, USA*

<sup>c</sup> *Department of Biochemistry, University of Ilorin, Ilorin, Kwara, Nigeria*

<sup>d</sup> *Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University (1-1 Yanagido, Gifu 501-1193, JAPAN)*

**OL-22** **p.56**

**Photo-induced-synthesis of 3-Hydroxyisoindolinones**

Muhammad Idham Darussalam Mardjan<sup>a\*</sup>, Bambang Purwono<sup>a</sup>, Priatmoko<sup>a</sup>, Akhmad Syoufian<sup>a</sup>, Jean-Luc Parrain<sup>b</sup> and Laurent Commeiras<sup>b</sup>

<sup>a</sup> *Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia*

<sup>b</sup> *Institut des Sciences Moléculaires de Marseille, Campus Scientifique de St. Jérôme, Université d'Aix-Marseille, France*

**OL-23** **p.57**

**Sun Protection Effect of New Benzophenone Derivatives in Sunscreens Cream**

**Formulations**

Asmiyenti Djaliasrin Djaliil<sup>\*</sup>, Edo Hary Wibowo, Indah Ulil Afwa, Tri Ambarwati, and Erza Genatrika

*Faculty of Pharmacy, Universitas Muhammadiyah Purwokerto, Jl. Raya Dukuwaluh PO. Box 202 Purwokerto, Indonesia, 53182*

**10:33-10:50**      **Coffee break**

**10:50-11:50**      **Research Presentation V** (12 min including Q&A)

[Moderators: Prof. Roderick W. Bates and Prof. Tienthong Thongpanchang]

**OL-24** **p.58**

**Recent Progress in the Synthesis of Natural and Unnatural Products**

Roderick W. Bates

*Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link, Singapore 637371*

**OL-25** **p.59**

**Chiral Derivatizing Agents with Constrained Aromatic Residue for NMR Shift Difference Method**

K. Dolsophon,<sup>a</sup> J. Sophonpong,<sup>a</sup> S. Sungsuwan,<sup>a</sup> N. Ruangsapapichart,<sup>a</sup> J. Kornsakulkarn,<sup>b</sup> C. Thongpanchang<sup>b</sup> and T. Thongpanchang<sup>a,b\*</sup>

<sup>a</sup>*Department of Chemistry and Center for Innovation in Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400 Thailand*

<sup>b</sup>*National Center for Genetic Engineering and Biotechnology, Thailand Science Park, Klong Luang, Patumthani 12130 Thailand*

**OL-26** **p.60**

**Synthesis, In Silico, Antioxidant and Anticholinesterase Activities of Coumaryl 1,3-Selenazole Derivative**

Nurul Izzaty Hassan<sup>a,\*</sup>, Nurul Zawani Alias<sup>a,b</sup>, Muhd Hanis Md Idris and Wan Yaacob Wan Ahmad

<sup>a</sup>*School of Chemical Sciences and Food Technology, Faculty of Science & Technology, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia*

<sup>b</sup>*Faculty of Applied Science, Universiti Teknologi MARA Perlis, Arau Campus, 02600 Arau, Perlis, Malaysia*

<sup>c</sup>*Integrative Pharmacogenomics Institute (iPROMISE), Universiti Teknologi MARA Selangor, Puncak Alam Campus, 42300 Bandar Puncak Alam, Selangor, Malaysia*

**OL-27** **p.61**

**Mechanochemical Activation of Nitroxide-mediated Polymerization**

Ting-Wei Liu, Jia-Xuan Chen, Meng-Hsien Wang, and Jyh-Tsung Lee<sup>\*</sup>

*Department of Chemistry, National Sun Yat-sen University, 70 Lienu-hai Rd, Kaohsiung 80424, Taiwan*

**OL-28** **p.62**

**Leaves, Stem, and Fruits *Xylocarpus granatum* for Cosmetics Raw Materials**

Irmanida Batubara<sup>a,b\*</sup> Muhamad Nursid<sup>c</sup>, Wulan Tri Wahyuni<sup>a,b</sup>

<sup>a</sup>*Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Darmaga Campus, Bogor 16680, Indonesia*

<sup>b</sup>Tropical Biopharmaca Research Center, Bogor Agricultural University, Jl. Taman Kencana No. 3, Bogor 16128, Indonesia

<sup>c</sup>Research Center for Marine and Fisheries Product Processing and Biotechnology, Agency of Marine and Fisheries Research, Jalan KS. Tubun Petamburan VI Jakarta, Indonesia

**11:50-13:00 Lunch**

**13:00-13:30 Keynote Lecture III** [Moderator: Prof. Rahmiana Zein]

**KN-3**

**p.33**

**The Synthesis and Biological Evaluation of Hydroxy(s) Chalcone and N-Acetyl Pyrazoline Series as Sunscreen and Antioxidant Agents**

Tutik Dwi Wahyuningsih<sup>a</sup>, Yehezkiel Steven Kurniawan<sup>a</sup> and Kiki Rizki Pinasti<sup>a</sup>

<sup>a</sup>Departement of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Sekip Utara Yogyakarta 55185, Indonesia

**13:30-14:42 Research Presentation VI** (12 min including Q&A)

[Moderators: Prof. Kuberan Balagurunathan and Prof. Yoshikuni Teramoto]

**OL-29**

**p.63**

**Selective Formation of 2-Cyclohexene-1-one from Hydrogenation Reaction of Phenol using M/SiO<sub>2</sub>-ZrO<sub>2</sub> [M = Ni, Cu]**

Siti Mariyah Ulfa<sup>a,\*</sup> Ilham Permana<sup>a</sup>, and Quarina Febrially P.<sup>a</sup>

<sup>a</sup>Chemistry Department, Faculty of Science, Brawijaya University, Jl. Veteran Malang, East Java, INDONESIA 65145

**OL-30**

**p.64**

**Potential Bioactivity of 2-Mercaptomethyl- Benzimidazole Derivatives**

Mohamed E. Khalifa<sup>\*</sup> Adil A. Gobouri and Fahad M. Kabli

Department of Chemistry, Faculty of Science, Taif University, Al-Hawieyah P.O. Box 888, Taif 21974, Saudi Arabia

**OL-31**

**p.65**

**Design and synthesis of extended Isatin and 1,4-dihydropyridine derivatives as anticancer agents**

Rakesh Kumar

Department of Chemistry, University of Delhi, Delhi-110007

**OL-32** **p.66**

**Exploration and Exploitation of Agricultural and Marine Solid Waste for Removal of Heavy Metals and Dye from Aqueous Solution**

Rahmiana Zein<sup>a,\*</sup>, Hermansyah Aziz<sup>b</sup>, Refilda<sup>c</sup>, DewiNofita<sup>a</sup>, NovrizaldiWardana<sup>a</sup>, PutriRamadhani<sup>a</sup>

<sup>a</sup>*Laboratory of Analytical Environmental Chemistry, Department of Chemistry, Andalas University, Padang, Indonesia*

<sup>b</sup>*Laboratory of Physical Chemistry, Department of Chemistry, Andalas University, Padang, Indonesia*

<sup>c</sup>*Laboratory of Applied Chemistry, Department of Chemistry, Andalas University, Padang, Indonesia*

**OL-33** **p.67**

**Glycosaminoglycans: Biosynthesis, Structures, and Functions**

Kuberan Balagurunathan

*Departments of Biology, Bioengineering, and Medicinal Chemistry, University of Utah, Skaggs Hall RM 307, 30 South 2000 East, Salt Lake City, UT 84112, USA*

**OL-34** **p.68**

**Cellulose Nanofibers as a Module for Paper-based Microfluidic Analytical Devices**

Yoshikuni Teramoto

*Department of Applied Life Science, Faculty of Applied Biological Sciences, Gifu University, 1-1 Yanagido, Gifu 5011193, Japan*

*Center for Highly Advanced Integration of Nano and Life Sciences (G-CHAIN), Gifu University, 1-1 Yanagido, Gifu 5011193, Japan*

*Venue 2: Multipurpose Room (Middle)*

**9:45-10:33**      **Research Presentation IV** (12 min including Q&A)

[Moderators: Prof. Rizafizah Othaman and Prof. Takahiro Nitta]

**OL-35** **p.69**

**Eggshell Nanocalcium to Improve Biogas Production**

Yessie Widya Sari<sup>a,\*</sup>, Eka Lestari<sup>a</sup>, Utami Dyah Syafitri<sup>b</sup> and Zaenal Abidin<sup>c</sup>

<sup>a</sup>*Biophysics Research Group, Department of Physics, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Indonesia*

<sup>b</sup>*Department of Statistics, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Indonesia*

<sup>c</sup>*Department of Chemistry, Faculty of Mathematics and Natural Sciences Bogor Agricultural University, Indonesia*

**OL-36** **p.70**

**Application of Nanomaterials in Bioanalytical Chemistry**

Akhmad Sabarudin

*Department of Chemistry, Faculty of Science, Brawijaya University, Jl Veteran 65145, Malang, Indonesia*

**OL-37** **p.71**

**Confinement of Choline Chloride:Urea into Nanoporous Silica for Capturing Carbon Dioxide**

Rizafizah Othaman<sup>a,b\*</sup>, Zaitun Ghazali<sup>b</sup>, Nur Hasyareeda Hassan<sup>a, b</sup>, The Lee Peng<sup>b</sup> and Mohd Ambar Yarmo<sup>b</sup>

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**OL-38** **p.72**

**Understanding movements of molecular shuttles driven by biomolecular machines**

Takahiro Nitta\*

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**10:33-10:50**      **Coffee break**

**10:50-11:50**      **Research Presentation V** (12 min including Q&A)

[Moderators: Prof. Mudasir Mudasir and Prof. Masato Ikeda]

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**Reduction in Contact Lens-induced Adverse Events by Antimicrobial Contact Lenses**

Parthasarathi Kalaiselvan,<sup>a</sup> Debarun Dutta,<sup>a</sup> Nagaraju Konda,<sup>b,c</sup> Savitri Sharma,<sup>b</sup> Pravin Krishnan,<sup>b</sup> Naresh Kumar,<sup>d</sup> Fiona Stapleton<sup>a</sup> and Mark Willcox<sup>a</sup>

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<sup>c</sup> School of Medical Sciences, University of Hyderabad, Hyderabad, India

<sup>d</sup> School of Chemistry, University of New South Wales, Sydney, Australia

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**Spectroscopic Studies on the Binding of Cationic Dye of Methyl Green to Calf-thymus DNA**

Mudasir Mudasir<sup>a,\*</sup>, Endang Tri Wahyuni<sup>a</sup>, Suherman Suherman<sup>a</sup> and Naoki Yoshioka<sup>b</sup>

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**Stimuli-responsive Supramolecular Nanofibers**

Masato Ikeda<sup>a,b,c,d,\*</sup>

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<sup>d</sup>Gu composite Center, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan

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**Triterpenoids of Avocado (*Persea americana*) Seeds: Findings the Potency as Anticancer Agent**

Suminar Setiati Achmadi

Department of Chemistry, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Dramaga Campus, Bogor 16680, Indonesia

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**p.77**

**Characterization and Utilization of Young Coconut Waste (*Cocos nucifera* L) for Manufacturing Fermented Plant Extracts that Potential as Natural Fertilizer and Pesticides**

Refilda Suhaili<sup>\*</sup>, Sabrina Yasmine, and Zilfa

Department of Chemistry, Faculty of Mathematics and Natural Sciences,

Andalas University, Padang, Indonesia

**OL-44** **p.78**

**Optimization Ultrasonic Extraction of *Peperomia pellucida* L. Kunth to Determine Total Antioxidant by DPPH Method**

Indrawati Usman, Vika Samila, F , Refilda Suhaili\*

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**OL-45** **p.79**

**Immobilization of Enzymatic Trypsin Microreactor on Polymeric Monoliths for Biocatalytic Reactions in Capillary Liquid Chromatography**

Radhia Putri\*, Lee Wah Lim, and Toyohide Takeuchi

*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, 1-1 Yanagido, Gifu 501-1193, JAPAN*

**13:30-14:42**      **Research Presentation VI** (12 min including Q&A)

[Moderators: Dr. Nurul Huda Abd Karim and Dr. Tutik Dwi Wahyuningsih]

**OL-46** **p.80**

**Metal Salphen Complexes as Potential Optical DNA Sensing Material**

Nurul Huda Abd Karim<sup>a,\*</sup>, Norhidayah Selamat, Lee Yook Heng and Nurul Izzaty Hassan

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**OL-47** **p.81**

**Total Arsenic Measurement in Blue Mussel Samples Using Extraction Method Followed by GF-AAS**

T. A. Koesmawati<sup>a,\*</sup>, S. Tanuwidjaja<sup>b</sup>, M. F. Solihat<sup>b</sup>, N. Fitria<sup>b</sup> and T. Purwanti<sup>c</sup>

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**OL-48** **p.82**

**Screening of Flesh and Peel Extracts of Snake Fruits Varieties for Antioxidant and Anti-Glycation Activities**

Eti Rohaeti<sup>a,b,\*</sup>, Irmanida Batubara<sup>a,b</sup>, Sumaiyah<sup>a</sup>

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**OL-49** **p.83**

**Highly Selective Visual Detection of Fe<sup>3+</sup> at ppm Level**

Md. Serajul Haque Faizi

*P. G. Department of Chemistry, L. S. College, B. R. A. Bihar University, Muzaffarpur, Bihar, India*

## **Poster Presentation**

*Venue: International Conference Room, Nagarakawa Convention Center*

**Friday, July 27, 2018 12:17-13:10**

**Introduction of Gu Composites Center (GCC)** **p.84**

**PO-1** **p.85**

**Simple Modification of Carbon Fiber by N<sub>2</sub> Bubble**

Daiki Ishida<sup>a</sup>, Shinya Takahashi<sup>a,b</sup> and Akiyoshi Takeno<sup>a,b,\*</sup>

<sup>a</sup>*Chemistry and Biomolecular Science, Gifu University, 1-1Yanagido, Gifu-shi, Gifu, 501-1193, Japan*

<sup>b</sup>*Gu composites center, Gifu University, 1-1Yanagido, Gifu-shi, Gifu, 501-1193, Japan*

**PO-2** **p.86**

**Augmented Nuclease Resistance and Gene Silencing with 3'-end modified small interfering RNAs**

Akash Chandela<sup>a</sup>, Yoshihito Ueno<sup>a,b,\*</sup>

<sup>a</sup> *United Graduate School of Agricultural Science, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan*

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**PO-3** **p.87**

**Synthesis of Quinoxaline Derivatives and Their Evaluation of Cytotoxic Activity against HL-60 Cells**

Yukari Ono, Amol. D. Sonawane, Daiki Kaneko, Masayuki Ninomiya and Mamoru Koketsu\*  
*Department of Graduate School of Natural Science and Technology, Gifu University, 1-1 Yanagido, Gifu, Japan*

**PO-4** **p.88**

**Synthesis of Terphenylquinone Derivatives and Their Evaluation of Cytotoxic Activity against HL-60 Cells**

H. Sugiyama, M. Ninomiya, T. Udagawa K. Tanaka and M. Koketsu  
*Department of Graduate School of Natural Science and Technology, Gifu University, 1-1 Yanagido, Gifu, Japan*

**PO-5** **p.89**

**Synthesis of Quinoxaline Derivatives and Their Inhibitory Effect on  $\alpha$ -Glucosidase**

Daiki Kaneko, Amol D.Sonawane, Yukari Ohno, Masayuki Ninomiya and Mamoru Koketsu  
*Department of Graduate School of Natural Science and Technology, Gifu University, 1-1 Yanagido, Gifu, Japan*

**PO-6** **p.90**

**Synthesis of Naturally Occurring Stilbene Derivatives and Their Acetylcholinesterase Inhibitory Effects**

M. Nagumo<sup>a</sup>, M. Ninomiya<sup>a</sup>, K. Tanaka<sup>b,c</sup>, and M. Koketsu<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan*

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**PO-7** **p.91**

**Synthesis and Antileukemic Properties of Carbazoloquinone Alkaloid Derivatives**

N. Suematsu<sup>a</sup>, M. Ninomiya<sup>a</sup>, K. Tanaka<sup>b,c</sup>, and M. Koketsu<sup>a,\*</sup>

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**PO-8** **p.92**

**Synthesis and Structure of Selenothiocarbamates**

A. Shimozuma<sup>a,b</sup> and O. Niyomura<sup>b</sup>

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**PO-9** **p.93**

**Nutrients and Antioxidant Properties of Gamma Irradiated Black Rice (*Oryza sativa* L. cv. Cempo ireng)**

Gracia L Rohana<sup>1</sup>, Riyatun<sup>2</sup>, Sutarno<sup>3</sup>, Ozi A Saputra<sup>1</sup> and Venty Suryanti<sup>1,\*</sup>

<sup>1</sup>*Department of Chemistry, <sup>2</sup>Department of Physics, <sup>3</sup>Department of Biology, Faculty of Mathematics and Natural Sciences, Sebelas Maret University, Jl. Ir. Sutami 36A Surakarta 57126 Indonesia*

**PO-10** **p.94**

**Solid Dispersion Studies of Valsartan Polyvinyl pyrrolidone K-30 (PVP K-30) by Co-Grinding Method**

Dini Hanifa, Erizal, Salman\*

*Faculty of Pharmacy, Andalas University, Padang, Indonesia*

**PO-11** **p.95**

**Modelling of Methyl-3-(2-hydroxy-5-nitrophenylamino)-3-phenylpropanoate as Anionic Sensors**

Mochammad Fauzan, Reno Saktian, Venty Suryanti, and Fajar Rakhman Wibowo\*

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**PO-12** **p.96**

**Nuclear Quantum Effect and H/D Isotope Effect on  $\text{Cl}\cdot + (\text{H}_2\text{O})_n \rightarrow \text{HCl} + \text{OH}\cdot (\text{H}_2\text{O})_{n-1}$  ( $n = 1-3$ ) Reactions**

Keita Sugiura<sup>a</sup>, Masanori Tachikawa<sup>b</sup> and Taro Udagawa<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, Japan*

<sup>b</sup>*Quantum Chemistry Division, Graduate School of NanoBioScience, Yokohama City University, Japan*

**PO-13** **p.97**

**A MC\_QM-ONIOM-NEB Method for Analyzing Isotope Effect in Chemical Reactions in Large Systems**

Hideya Sugimoto<sup>a</sup>, Masanori Tachikawa<sup>b</sup> and Taro Udagawa<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, Japan*

<sup>b</sup>*Quantum Chemistry Division, Graduate School of NanoBioScience, Yokohama City University, Japan*

**PO-14** **p.98**

**Theoretical Investigation on Structures of  $[\text{Li}(\text{H}_2\text{O})_n]^+$  ( $n = 1-5$ ) Clusters: A GRRM Study**

Sonosuke Tsuchiya and Taro Udagawa<sup>\*</sup>

*Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University*

**PO-15** **p.99**

**Degradation of Organic Waste Selected by Pyrolysis Reactor**

M. Taufik<sup>a\*</sup>, A.M. Trihaksami<sup>b</sup>, T. Purwanti<sup>c</sup>, and D. Susrini<sup>d</sup>

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<sup>abcd</sup>*Magister Environmental of science, Mulawarman University, Ki Hajar Dewantara Street, Samarinda 75119, Indonesia*

**PO-16** **p.100**

**The Ability of Single and Mixture Species in Degradating Hydrocarbon Substance in Petroleum Waste**

Charlena<sup>a\*</sup>, Nadiah Chalisya<sup>b</sup>

<sup>a</sup> *Department of Chemistry, Bogor Agricultural University, Bogor-16680, Indonesia*

<sup>b</sup> *Department of Biology, Bogor Agricultural University, Bogor-16680, Indonesia*

**PO-17** **p.101**

**Method Validation of Hydrogen Sulfide Content in Liquefied Natural Gas and Liquefied Petroleum Gas Samples at PT. Badak NGL Using GPA 2265 Method**

Tatik purwanti<sup>a\*</sup>, Lalang dwiyoga sakti<sup>b</sup> and Tiny agustini koesmawati<sup>c</sup>

<sup>ab</sup>*Departemen Technical, Laboratory and Environment Control Section, PT Badak NGL, Jl Mulawarman, Bontang 75325, Indonesia*

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**PO-18** **p.102**

**Novel Materials from Lecithin Template Mesoporous Silica for the Purification of Algae Bio Oil**

David Marikah, Lee Wah Lim and Toyohide Takeuchi

*Division of Materials Engineering, Graduate School of Engineering, Gifu University, Gifu 501-1193, Japan*

**PO-19** **p.103**

**Development of silica-based materials for chromatographic separations**

Esther Maina, Lee Wah Lim and Toyohide Takeuchi

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**PO-20** **p.104**

**Microwave-assisted Synthesis of Anion Exchange Monolithic Column for Capillary Liquid Chromatography**

Maya Imaeda, Lee Wah Lim and Toyohide Takeuchi

*Graduate School of Natural Science and Technology, Gifu University, Gifu 501-1193, JAPAN*

**PO-21** **p.105**

**Encapsulation Insulin With Blend Low Molecular Weight Chitosan-Collagen in Preparation Insulin Peroral**

Tetty Kemala<sup>a</sup>, Haris Darmawan<sup>a</sup> and Ahmad Sjahriza<sup>a</sup>

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**PO-22** **p.106**

**Organic Cation and Plasma Membrane Monoamine Transporter as Histamine Transporter in Rat Basophilic Leukemia (RBL-2H3) Cells**

Trivadila<sup>a, b\*</sup> and Kazutaka Maeyama<sup>b</sup>

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**PO-23** **p.107**

**Isolation of Secondary Metabolites from *Coreopsis lanceolata* Stems and Their Biological Activity**

Antoni Pardede<sup>a</sup>, Morina Adfa<sup>b</sup>, Arif Juliari Kusnanda<sup>b</sup>, Masayuki Ninomiya<sup>c</sup> and Mamoru Koketsu<sup>c\*</sup>

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- PO-24** **p.108**  
**Compounds Identified in Methanol Extract of *Curcuma zedoaria***  
Gustini Syahbirin\*, Rini Radita, and Auliya Ilmiawati  
*Bogor Agricultural University, Department of Chemistry, Raya Dramaga Road, Bogor 16680, Indonesia*
- PO-25** **p.109**  
**Isolation of An Antioxidant Flavonoid Glycoside from Cacao Mistletoe (*Scurrula ferruginea* (Jack) Danser)**  
Mai Efdi<sup>a,\*</sup>, Dara Pratama<sup>a</sup> and Afrizal<sup>a</sup>  
<sup>a</sup>*Department of chemistry Andalas University, Padang, West Sumatra, Indonesia*
- PO-26** **p.110**  
 **$\alpha$ -Glucosidase Inhibitory Activity of *Luffa acutangula* Seeds Extract**  
Rina Herowati<sup>a,\*</sup>, Gunawan P. Widodo<sup>a</sup>, and Elisabeth O. Jawa La<sup>b</sup>  
<sup>a</sup>*Faculty of Pharmacy, Setia Budi University, Jalan Letjen Sutoyo, Solo, Indonesia*  
<sup>b</sup>*High School of Pharmacy Mahaganesha, Jalan Tukad Barito 57, Denpasar, Indonesia*
- PO-27** **p.111**  
**Hydrogel-Based Polyvinyl Alcohol-Carrageenan with Addition of AgNO<sub>3</sub> and ZnO**  
Betty Marita Soebrata<sup>a,\*</sup>, Nadia Dyah Damayanti, Yuliana, and Trivadila<sup>a</sup>  
<sup>a</sup>*Chemistry Department, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University*
- PO-28** **p.112**  
**Coating of Ti6Al4V Nanotube Alloy with Hydroxyapatite-Gelatin-Polyvinyl Alcohol Composite Using Dip-Coating Method**  
Charlena<sup>a,\*</sup>, Setyanto Tri Wahyudi<sup>b</sup>, Cucu Putri Nurmawan<sup>a</sup>  
<sup>a</sup> *Department of Chemistry, Bogor Agricultural University, Bogor-16680, Indonesia*  
<sup>b</sup> *Department of Physic, Bogor Agricultural University, Bogor-16680, Indonesia*
- PO-29** **p.113**  
**Integration between Fertilizers to Increase Crop Productivity and Maximizing Environmental Benefits**  
Amira A. El-Emshaty\*  
*Soil, Water and Environment Research Institute, Agriculture Research Center, Giza, Egypt*

- PO-30** **p.114**  
**Arsenic Concentration in the Surface Sediment of Lake Buyan, Bali, Indonesia**  
Irdhawati<sup>a,\*</sup>, Amanda Reichelt-Brushett<sup>b</sup>, and Manuntun Manurung<sup>a</sup>  
<sup>a</sup>*Department of Chemistry, Faculty of Mathematic and Natural Sciences, Udayana University, Kampus Bukit Jimbaran Bali 80361 Indonesia*  
<sup>b</sup>*Marine Ecology Research Center, School of Environment, Science, and Engineering, Southern Cross University, Lismore, NSW, Australia*
- PO-31** **p.115**  
**Efficient Adsorption of Pb<sup>2+</sup> from Effluents on Eco friendly and Low Cost Adsorbent**  
Rasika Toranea, \*  
*Department of Chemistry, Sir Parashurambhau College, Pune - 411030, Maharashtra, India*
- PO-32** **p.116**  
**Magnetized Porous Carbon and Magnetized Rubber with Ferrite**  
Siriwit Buajarern<sup>\*</sup>, Chawapol Rojanarwewong and Thanakorn Kampradit  
*Department of Chemistry, Faculty of Science and Technology, Thammasat University, PathumThani 12120, Thailand*
- PO-33** **p.117**  
**Biosynthesis of Zinc Oxide Nanoparticles Using Medicinal Plant Extracts of *Cassia tora*: Phytochemical, Antibacterial and Antioxidant Studies**  
Sucheta Abhay Gaikwad<sup>1,2,\*</sup>  
<sup>1</sup>*Dr. T. R. Ingle Research Laboratory, Department of Chemistry, Sir Parashurambhau College, Pune 411030, Maharashtra, INDIA*  
<sup>2</sup>*Department of Chemistry, Sir Parashurambhau College, Pune 411030, Maharashtra, INDIA*
- PO-34** **p.118**  
**Alkyl Nitrite Mediated Efficient Synthesis of 1,2,4-Oxadiazoles from Aldoximes and Nitriles**  
Dinesh R. Garud<sup>a,\*</sup>, Amol D. Sonawane<sup>b</sup>, Kishorkumar S. Kadam<sup>c</sup>  
<sup>a</sup>*Department of Chemistry, Sir Parashurambhau College, Tilak Road, Pune, India 411 030, Maharashtra, India (Affiliated to Savitribai Phule Pune University)*  
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**PO-35**

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**Synthesis, Antitubercular Screening and In silico Study of 3-Aryl-2-(2-arylthiazol-4-yl)thiazolidin-4-one Derivatives as Potential Anti-mycobacterial Agents**

Pravin C. Mhaske<sup>a</sup>, Yogita K. Abhale<sup>b</sup>, Dhiman Sarkar<sup>c</sup>

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**p.120**

**Pharmacokinetic Evaluation of a Novel Synthetic Anti-malarial Compound**

Cecilia Nthabiseng<sup>a</sup>, Miranda Seopa<sup>a</sup>, Samson Mashela<sup>a,\*</sup>, Deepak Salunke<sup>b</sup>, Chandrashakher Kulkarni<sup>c</sup>, Dr. Glen Taylor<sup>d</sup> and Pravin Kendrekar<sup>a,\*</sup>

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