ISBP 2024
International Symposium on Biopolymers

WELCOME CEREMONY

October 20, 2024

Ballroom 3

Time	Program
4.00 - 7.30 pm	Arrival and registration of ISBP 2024 participants
5.00 pm	Welcome remarks by ISBP 2024 Chairperson, Prof. Sudesh Kumar
5.15 pm	Welcome remarks by ISBP 2022 Chairperson, Prof. Manfred Zinn
5.30 pm	ISBP 2024 program briefing
5.45 - 7.30 pm	Meet and greet with refreshments

October 21, 2024

OPENING CEREMONY

Ballroom 4

Time	Program
8.00 am	Registration
8.30 am	Arrival of Guests
8.45 am	Arrival of The Honorable Prof. Habibah A. Wahab Deputy Vice-Chancellor (Research and Innovation), Universiti Sains Malaysia
8.55 am	Arrival of The Honorable Tuan Chang Lih Kang Minister of Science, Technology and Innovation (MOSTI)
9.00 am	National Anthem - Negaraku Universiti Sains Malaysia's Official Anthem - Menara Ilmu
9.05 am	Du'a Recitation by Ustaz Zayd Zhari Deputy Director, Islamic Centre of Universiti Sains Malaysia
9.10 am	Welcome Speech by Prof. Sudesh Kumar, FASc. Chairperson, International Symposium on Biopolymers 2024
9.20 am	Speech by The Honorable Prof. Habibah A. Wahab Deputy Vice-Chancellor (Research and Innovation), Universiti Sains Malaysia
9.30 am	Officiation Speech by The Honorable Tuan Chang Lih Kang Minister of Science, Technology and Innovation (MOSTI)
9.40 am	Opening Ceremony Gimmick
9.45 am	Token of Appreciation to The Honorable Tuan Chang Lih Kang Minister of Science, Technology and Innovation (MOSTI)
9.50 am	Video - 100 Years of PHA Research
9.55 am	Photography Session
10.00 - 10.30 am	Exhibition Booth Visit, Press Conference, Tea Break

TEA BREAK

10.00 - 10.30am

10.30 - 11.30 am

Plenary Session 1

Ballroom 4

Chairpersons: Prof. Sudesh KUMAR and Prof. Dieter JENDROSSEK			
10.30 am	PL1	Plenary lecture by Prof. George Guo-Qiang CHEN Tsinghua University, China	Synthetic biology of Halomonas: Toward full scale PHA industrial production
11.05 am	Special Keynote	Special Keynote lecture by Prof. Alexander STEINBÜCHEL University of Münster, Germany	PHAs - 100 years of research and development: Will it come to a successful end?

SCIENTIFIC SESSIONS - FOUR PARALLEL SESSIONS

11.35 am - 1.05 pm

S1 BIOSYNTHESIS AND CHARACTERIZATION OF NOVEL BIOPOLYMERS I

Ballroom 4

Chairpersons: Prof. Takeharu TSUGE and Prof. Mohamad Suffian Mohamad ANNUAR			
11.35 am	KN1	Prof. Takeharu TSUGE	Biosynthesis, physical properties, and biodegradability of α-methylated polyhydroxyalkanoates
12.00 pm	KN2	Prof. Mohamad Suffian Mohamad ANNUAR	Three decades of innovation and discovery: Advancing medium-chain-length PHA research in Malaysia
12.25 pm	I1	Prof. Bronwyn LAYCOCK	The chemical synthesis of novel PHA-based block copolymers
12.45 pm	I2	Assoc. Prof. Chen LING	Development of biodegradable and recyclable elastomeric vitrimers and dynamic thermoset blends from polyhydroxyalkanoates

S2 EXPLORATION OF BIOBASED POLYMERS

Function room 7

Chairpersons: Prof. Keji NUMATA and Prof. Roger MARTI			
11.35 am	KN3	Prof. Keji NUMATA	Spider silk as sustainable biopolymer - Molecular design and photosynthetic production
12.00 pm	KN4	Prof. Roger MARTI	Keratin from chicken feathers as additive in bioplastics
12.25 pm	I1	Assoc. Prof. Mohd Hazwan HUSSIN	Exploring the potential of oil palm based lignin as corrosion inhibitors for metal protection
12.45 pm	N3	Prof. Hideki ABE	Properties and biodegradability of polyesters obtained by polycondensation reaction from bio-based diols and dicarboxylic acids

S3 ENVIRONMENTAL IMPACTS AND DEGRADATION OF BIOPOLYMERS I

Function room 8

Chairpersons: Prof. Dieter JENDROSSEK and Dr. Daisuke KASAI			
11.35 am	KN5	Prof. Dieter JENDROSSEK	Polyethylene and related hydrocarbon polymers ("plastics") are not biodegradable
12.00 pm	I1	Assc. Prof. Daisuke KASAI	Elucidation of the natural rubber degradation mechanism and the conversion system of poly(cis-1,4-isoprene) to polyhydroxyalkanoate
12.20 pm	N4	Dr. Laura Isabel de EUGENIO MARTINEZ	The rebirth of polyhydroxyalkanoate depolymerases on the rise of enzymatic recycling
12.40 pm	N5	Dr. Hendrik BALLERSTEDT	Unchain the metabolic potential of plastics as carbon source for biotechnology

S4 ADVANCEMENTS IN RUBBER RESEARCH I

Function room 9

Chairpersons: Prof. Chaorong TANG and Asso. Prof. Satoshi YAMASHITA			
11.35 am	KN6	Prof. Chaorong TANG	Expansion and divergence of the rubber elongation factor/small rubber particle protein (REF/SRPP) gene family is essential to rubber production
12.00 pm	I3	Dr. Rekha KARUMAMKANDATHIL	Hevea crop improvement through biotechnological approaches: Opportunities and challenges
12.20 pm	I4	Assc. Prof. Satoshi YAMASHITA	Structural and biochemical implications of cis-prenyltransferase: Toward biosynthesis of non-natural rubber
12.40 pm	SN1	Mr. Taro YANAI	Characterization of N- and C-terminal domains of HRBP comprising the natural rubber biosynthetic machinery

LUNCH & POSTER

1.05 - 2.00 pm

SCIENTIFIC SESSIONS - FOUR PARALLEL SESSIONS

2.00 - 3.30 pm

S5 BIOSYNTHESIS AND CHARACTERIZATION OF NOVEL BIOPOLYMERS II

Ballroom 4

Chairpersons: Prof. Rajni HATTI-KAUL and Prof. Toshiaki FUKUI			
2.00 pm	KN7	Prof. Rajni HATTI-KAUL	Biobased plastics redesigned: Focus on polymer building blocks
2.25 pm	I5	Prof. Toshiaki FUKUI	Microaerobic/autotrophic insights into poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) biosynthesis by engineered Ralstonia eutropha
2.45 pm	N6	Prof. Maximilian LACHNER	Rim driven thruster for gas fermentation
3.05 pm	N7	Assc. Prof. Nuttapol TANADCHANGSAENG	Enhancing diversity in polyhydroxyalkanoate (PHA) properties through fractionation of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) copolymers

S6 JST SAKIGAKE SESSION "SUSTAINABLE MATERIALS"

Function room 7

Chairperson: Prof. Tadahisa IWATA			
2.00 pm	I6	Assc. Prof. Yu-I HSU	Biopolymer composites with seawater-specific dissolution characteristics
2.20 pm	I7	Assc. Prof. Takuya ISONO	Designing bio-based elastomers using oligosaccharides
2.40 pm	I8	Assc. Prof. Ryo TANAKA	Functionalization and microstructure modification of bio-based polymers using boron-based monomers and catalysts
3.00 pm	I9	Assc. Prof. Kosuke TSUCHIYA	Development of degradable polyamides based on polypeptide by chemoenzymatic synthesis

S7 ENVIRONMENTAL IMPACTS AND DEGRADATION OF BIOPOLYMERS II

Function room 8

Chairpersons: Prof. Kevin E. O'CONNOR and Assc. Prof. Ts. Kesavan BHUBALAN			
2.00 pm	KN8	Prof. Kevin E. O'CONNOR	Using mixed waste resources in an integrated chemo-biotechnological process to produce polyhydroxyalkanoates
2.25 pm	I10	Assc. Prof. Ts. Kesavan BHUBALAN	Bioaccumulation breakdown: Investigating the impact of biodegradable microplastics in the aquatic food chain
2.45 pm	N8	Asst. Prof. Jin Ho SEOK	Marine biodegradability of poly(L-lactic acid) and the effects of molecular weight
3.05 pm	N9	Mr. Sirirach NANTHACHAI	Evaluating the feasibility of biological upcycling poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by Achrohydromonas australica DSM1124

S8 ADVANCEMENTS IN RUBBER RESEARCH II

Function room 9

Chairpersons: Prof. Jitladda SAKDAPIPANICH and Asso. Prof. Kamonwan UMSAKUL			
2.00 pm	I11	Prof. Jitladda SAKDAPIPANICH	Enhancing biopolymer application: Towards sustainable and allergen-free natural rubber
2.20 pm	I12	Assc. Prof. CHM. Mohammad Nazri ISMAIL	Protein-driven structure-function interplay in Malaysian Hevea latex
2.40 pm	SN2	Mr. Kittipong INSOM	Biopolymer network analysis in Hevea latex via AFM: The impact of pre-vulcanized structures on latex film mechanical properties
2.55 pm	N10	Dr. Ariana Abu HASSAN	Exploring the possibility of modifying the substrate scope of latex clearing proteins
3.15 pm	SN3	Mr. Marlus BORDER	How polyisoprene binds to the active site of rubber oxygenases A

PL - PLENARY LECTURE
30 min

KN - KEYNOTE LECTURE
20 min

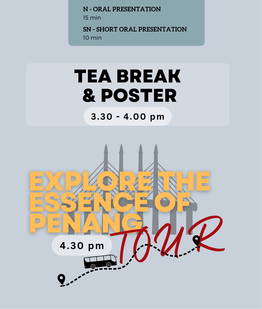
I - INVITED LECTURE
15 min

N - ORAL PRESENTATION
15 min

SN - SHORT ORAL PRESENTATION
10 min

TEA BREAK & POSTER

3.30 - 4.00 pm



ISAP 2024

October 22, 2024

Registration
8.00 - 8.30 am

8.30 - 10.15 am

Plenary Session 2

Ballroom 4

Chairpersons: Prof. Manfred ZINN and Prof. Maria REIS			
8.30 am	PL2	Plenary Lecture by Prof. Tadahisa IWATA University of Tokyo, Japan	Development of high-performance biodegradable biomass plastics and their microbial decomposition on the deep-sea floors
9.05 am	PL3	Plenary lecture by Prof. Bernd REHM Griffith University, Australia	Directed assembly toward advanced bio-based materials
9.40 am	PL4	Plenary lecture by Prof. Auxiliadora PRIETO Spanish National Research Council, Spain	Design and production of functional biohybrid materials based on bacterial polymers

TEA BREAK & POSTER
10.15 - 10.45 am

SCIENTIFIC SESSIONS - FOUR PARALLEL SESSIONS
10.45 am - 12.50 pm

S9 ADVANCES AND CHALLENGES IN THE INDUSTRIAL PRODUCTION OF BIOPOLYMERS I
Ballroom 4

Chairpersons: Prof. Manfred ZINN and Prof. Sebastian L. RIEDEL			
10.45 am	KN9	Prof. Manfred ZINN	Greenhouse gas conversion into PHA using microbial fermentation
11.10 am	I13	Prof. Sebastian RIEDEL	Towards a circular bioeconomy: Polyhydroxyalkanoate bioplastic production
11.30 am	I14	Assc. Prof. Doan Van THUOC	Production of polyhydroxyalkanoates from renewable carbon sources
11.50 am	N11	Prof. Marina BASAGLIA	Sustainable PHAs production by *Cupriavidus necator* DSM 545 from whey permeate
12.10 pm	N12	Dr. Masahiro FUJITA	Effect of nucleating agent on PHA crystallization
12.30 pm	SN4	Mr. Pietacher LOÏC	Study of mcl-PHA extraction with soxhlet and room temperature stirred vessel using green solvents

S10 NON-NATURAL PHA AND PLA
Function room 8

Chairpersons: Prof. Ken'ichiro MATSUMOTO and Prof. Seiichi TAGUCHI			
10.45 am	KN10	Prof. Ken'ichiro MATSUMOTO	Expanding artificial polyhydroxyalkanoates: Cross-point of PLA biosynthesis and block copolymerization
11.10 am	I15	Prof. Seiichi TAGUCHI	LAHB as a PLA modifier: Improvements in production, material properties and marine biodegradability
11.30 am	N13	Asst. Prof. Sangho KOH	Microbial platform for industrial tailor-made production of ultrahigh-molecular-weight lactate-based polyester LAHB
11.50 am	N14	Dr. Yusuke IMAI	Microbially produced lactate copolymer LAHB as multi-functional modifier for poly(lactate)
12.10 pm	N15	Mr. Toshihiko KANDA	Modification of PLA by lactate-based biodegradable polyester LAHB for widening applications in practical use
12.30 pm	N16	Prof. Koh-hei NITTA	Morphology and mechanical properties of polylactide-based materials

S11 APPLICATIONS OF BIOPOLYMERS I
Function room 9

Chairpersons: Prof. Jasmina NIKODINOVIC-RUNIC and Prof. Jun LI			
10.45 am	KN11	Prof. Jasmina NIKODINOVIC-RUNIC	Tuning properties of microbial biopolymers towards biomedical applications
11.10 am	KN12	Prof. Jun LI	Novel cyclodextrin-based supramolecular polymers for nanomedicine and sustainability applications
11.35 am	I16	Assc. Prof. Mohammad Faizul Mohammad BUSRA	Conventional approach to advanced bio-convergence perspective: From COLPATCH® to 3D-Bioprinting technology
11.55 am	I17	Assc. Prof. Badrul Hisham YAHAYA	Advancing tracheal transplantation: Innovations and insights from 3D-printed hybrid scaffolds
12.15 pm	N17	Dr. Thaigarajan PARUMASIVAM	Optimization of polyhydroxyalkanoate microparticles containing Rifapentine and Verapamil using a water-in-oil-in-water double emulsion technique
12.35 pm	N18	Dr. Anna SHUMILOVA-SUKHANOVA	Eco-friendly carriers with isothiocyanates based on biodegradable polymers for potato cyst nematode control

FUNCTION ROOM 7
SATREPS OPT PROJECT 6TH JOINT COORDINATING COMMITTEE (JCC) MEETING & MINI-SYMPOSIUM
CLICK HERE
Please refer to Concurrent Events

LUNCH & POSTER
12.50 - 1.50 pm

SCIENTIFIC SESSIONS - FOUR PARALLEL SESSIONS
1.50 - 3.35 pm

S12 ADVANCES AND CHALLENGES IN THE INDUSTRIAL PRODUCTION OF BIOPOLYMERS II
Ballroom 4

Chairpersons: Prof. Maria REIS and Dr. Alan WERKER			
1.50 pm	KN13	Prof. Maria REIS	Breaking the plastic wave: Innovating with biopolymer production
2.15 pm	N19	Dr. Alan WERKER	PHA solvent recovery from dried PHA-rich biomass with integrated steps of formulation and processing
2.35 pm	N20	Dr. Maciej GUZIK	Fermentation of commercial polymers degradation products via bacterial strains for sustainable biopolymer synthesis
2.55 pm	SN5	Ms. Hye Eun YU	Microbial production of diverse polyhydroxyalkanoates from C1 compounds
3.10 pm	SN6	Mr. Yizhou XING	Combined selective growth and PHA storage: A principle for enhanced direct PHA accumulation for waste activated sludge

S13 IDENTIFICATION AND IMPROVEMENT OF BACTERIAL STRAINS FOR BIOPOLYMER PRODUCTION
Function room 8

Chairpersons: Prof. Stanislav OBRUČA and Dr. James WINTERBURN			
1.50 pm	KN14	Prof. Stanislav OBRUČA	Thermophiles: Promising microbial platform for production of polyhydroxyalkanoates
2.15 pm	KN15	Dr. James WINTERBURN	Combined fermentation process and strain engineering approaches to enhance polyhydroxyalkanoate biosynthesis in halophiles
2.40 pm	N21	Dr. Ahmad Bazli RAMZI	Teaching an old dog new tricks – Developing *Cupriavidus* recursor as synthetic biology chassis for plastic-to-bioplastic bioconversion
3.00 pm	N22	Asst. Prof. Min Fey CHIEK	Structural studies of the key enzyme in PHA biosynthesis - PHA synthase (PhaC)
3.20 pm	N23	Dr. Kyle SANDER	Large-scale PhaC polyhydroxyalkanoate synthase protein directed evolution for producing novel polymers and copolymers

S14 APPLICATIONS OF BIOPOLYMERS II
Function room 9

Chairpersons: Prof. Ipsita ROY and Dr. Anatoly BOYANDIN			
1.50 pm	KN16	Prof. Ipsita ROY	Sustainable polymers of bacterial origin and their biomedical applications
2.15 pm	I18	Dr. Anatoly Nikolayevvich BOYANDIN	Processing and modification of biodegradable polyesters for various applications
2.35 pm	I19	Prof. Hiroshi UYAMA	PLA-based high-performance materials
2.55 pm	N24	Dr. Petr SEDLACEK	Development of next-generation gel biofertilizers through encapsulation of plant growth-promoting rhizobacteria in self-produced exopolysaccharides
3.15 pm	N25	Dr. Adina ANGHELESCU-HAKALA	Bio-based aqueous dispersions based on unsaturated PLA copolymers for barrier packaging applications

PL - PLENARY LECTURE
30 min

KN - KEYNOTE LECTURE
20 min

I - INVITED LECTURE
15 min

N - ORAL PRESENTATION
15 min

SN - SHORT ORAL PRESENTATION
10 min

TEA BREAK & POSTER EVALUATION SESSION
3.35 - 5.30 pm

SYMPOSIUM DINNER
7.00 PM

ISBP 2024

October 23, 2024

Industry Day Opening Ceremony

BALLROOM 4

Time	Program
8.00 am	Registration
8.30 am	Arrival of Guests
8.55 am	Arrival of The Honorable Dr. Seetha King Director, Agro-Biotechnology Institute National Institutes of Biotechnology Malaysia
9.00 am	National Anthem - Negaraku Universiti Sains Malaysia's Official Anthem - Menara Ilmu
9.05 am	Du'a Recitation by Ustaz Nukman Ahmad Zaiyr Islamic Affairs Officer, Islamic Centre of Universiti Sains Malaysia
9.10 am	Welcome Speech by Prof. Sudesh Kumar, FASc. Chairperson, International Symposium on Biopolymers 2024
9.20 am	Speech by The Honorable Dr. Seetha King Director, Agro-Biotechnology Institute National Institutes of Biotechnology Malaysia
9.30 am	Token of Appreciation to The Honorable Dr. Seetha King
9.35 am	Photography Session
9.40 - 10.20 am	Exhibition Booth Visit, Tea Break

EXHIBITION BOOTH VISIT & TEA BREAK

9.40 - 10.20 am

PARALLEL SESSIONS - INDUSTRY DAY, MOONSHOT, ISBP SCIENTIFIC SESSION

10.20 am - 12.30 pm

Session I
INDUSTRY DAY GO!PHA
BALLROOM 4

Policy, Regulatory, and Investment Landscape

10.20 - 11.30 am	Plenary Session	
	Chairperson: Datin Azniita Naziz	
10.20 - 10.40 am	PL1	Plenary talk by Mr. Rick Passenier GO!PHA
		Global Regulatory & Policy Overview
10.40 - 11.00 am	PL2	Plenary talk by Dr. Manuel Brunner Minderoo Foundation
		Minderoo's Approach on Investments in Biomaterials and Key Learnings
11.00 - 11.20 am	PL3	Plenary talk by Mr. Roberto Benetello Malaysian Recycling Alliance (MAREA)
		Local Implementation, Recycling Strategies, and EPR
11.30 - 12.30 pm	**Breakout Session I** Moderator: Mr. Rick Passenier GO!PHA Global Policy Interventions	

Session II
INDUSTRY DAY GO!PHA
FUNCTION ROOM 8

Policy, Regulatory, and Investment Landscape

11.30 - 12.30 pm	**Breakout Session II** Moderator: Dr. Manuel Brunner Minderoo Foundation Scaling the Industry-Investment Landscape

Session III
INDUSTRY DAY GO!PHA
FUNCTION ROOM 9

Policy, Regulatory, and Investment Landscape

11.30 - 12.30 pm	**Breakout Session III** Moderator: Datin Azniita Naziz Malaysian Bioeconomy Development Corporation Local Implementation

LUNCH

12.30 - 1.30 pm

Session IV
INDUSTRY DAY GO!PHA
BALLROOM 4

Industry Success Stories and Future Expansion

1.30 - 1.40 pm	Recap of breakout sessions
Industry Collaboration and Success Stories (Group 1)	
Moderator: Mr. Rick Passenier, GO!PHA	
1.40 - 1.50 pm	Dr. Manoj Lakshmanan, ZACROS Malaysia
1.50 - 2.10 pm	Ms. Sherry Xu, PhaBuilder & Dr. Richard Fu, Solenis
2.10 - 2.20 pm	Dr. Daniel Mohamed, PHAsT
2.20 - 2.30 pm	Dr. Pak Meng Cham, PepsiCo
2.30 - 3.00 pm	Q&A session
3.00 - 3.10 pm	Short Break
Industry Collaboration and Success Stories (Group 2)	
Moderator: Mr. Rick Passenier, GO!PHA	
3.10 - 3.20 pm	Dr. Geoff Nobes, KPOC Industries
3.20 - 3.30 pm	Dr. Anand Ghosalkar, Praj Industries
3.30 - 3.40 pm	Ms. Huang Hui, Tianan Enmat
3.40 - 3.50 pm	Dr. Shunsuke Sato, KANEKA Japan
3.50 - 4.00 pm	Q&A session
4.00 - 4.30 pm	Final Remarks

FUNCTION ROOM 7

MOONSHOT WORKSHOP ON RESEARCH AND DEVELOPMENT OF MARINE DEGRADABLE PLASTICS WITH BIODEGRADABLE INITIATION FUNCTION

CLICK HERE

Please refer to Concurrent Events

S15 METABOLIC ENGINEERING OF *Halomonas bluephagensis* FOR BIOPOLYMER PRODUCTION

Function room 8

Chairpersons: Asso. Prof. Doan Van THUOC and Asso. Prof. Ts. Kesavan BHUBALAN		
1.50 pm	SN7	Dr. Xu YAN	Biosynthesis of diverse ω,ω-diol-derived polyhydroxyalkanoates by engineered *Halomonas bluephagensis*
1.45 pm	SN8	Dr. Rou WEN	Engineering exopolysaccharides in *Halomonas bluephagensis* leads to self-flocculating and filamentation for convenient downstream processing
2.00 pm	SN9	Dr. Junting SHENG	Production of PHA copolymers consisting of 3-hydroxybutyrate and 3-hydroxyhexanate (PHBHHX) by recombinant *Halomonas bluephagensis*
2.15 pm	SN10	Ms. Weinan YANG	Engineering low-salt growth *Halomonas bluephagensis* for cost-effective bioproduction combined with adaptive evolution
2.30 pm	SN11	Ms. Yiling CHEN	Engineering the permeability of *Halomonas bluephagensis* enhanced its chassis properties
2.45 pm	SN12	Ms. Shuang ZHENG	A self-stimulating system based on a polyhydroxyalkanoates coupled induction mechanism and its applications for *Halomonas*
3.00 pm	SN13	Ms. Ziqi JIN	Metabolic engineering of *Halomonas bluephagensis* for production of five carbon molecular chemicals derived from L-lysine
3.15 pm	SN14	Mr. Ming Wei SHAO	Flux optimization using multiple promoters in *Halomonas bluephagensis* as a model chassis of the next generation industrial biotechnology
3.30 pm	SN15	Ms. Jiale WANG	PHB production from food waste hydrolysates by *Halomonas bluephagensis* harboring PHB operon linked with an essential gene

S16 STRATEGIES FOR THE IMPROVEMENT OF BIOPOLYMER PRODUCTION

Function room 9

Chairpersons: Asso. Prof. Mohammad Fauzi Mohammad BUSRA and Asst. Prof. Min Fay CHEK			
1.30 pm	SN16	Dr. Idris ZAINAB-I	Mesakorms generate microplastics when fed with plastics
1.45 pm	SN17	Mr. Abdiqani Ibrahim OSMAN	Production of biobased polymers by marine bacteria
2.00 pm	SN18	Ms. Minju KANG	Systems metabolic engineering for the aromatic homo-polymer production
2.15 pm	SN19	Mr. Hugo FLEURIOT BLITMAN	Transcriptomic insights into the dynamics of the PHB cycle in *Rhodospirillum rubrum*
2.30 pm	SN20	Mr. Phillip FINK	A novel recombinant PHB production in filamentous cyanobacteria avoiding nitrogen starvation while preserving cell viability
2.45 pm	SN21	Dr. Kai-Hee HUONG	A novel pathway for 4-hydroxybutyrate-containing polyesters by atypical archaeal dehydratase

PL - PLENARY LECTURE
30 min

KN - KEYNOTE LECTURE
20 min

I - INVITED LECTURE
15 min

N - ORAL PRESENTATION
15 min

SN - SHORT ORAL PRESENTATION
10 min

CLOSING CEREMONY

BALLROOM 4

4.30 pm	Arrival of Guests
4.55 pm	Arrival of The Honorable Ts Soeraya Satem Ahmad Senior Vice President, Industry Development Division, Bioeconomy Corporation
5.00 pm	Appreciation Speech by Prof. Sudesh Kumar, FASc. Chairperson, International Symposium on Biopolymers 2024 Montage Video Session
5.15 pm	Closing Speech by The Honorable Ts Soeraya Satem Ahmad Senior Vice President, Industry Development Division, Bioeconomy Corporation
5.25 pm	Award Ceremony - ISBP Lifetime Achievement Award - Industry Award - Bernard Witholt PHA Award
5.45 pm	Token of Appreciation to Mrs. Renske Heddema
5.50 pm	Token of Appreciation to The Honorable Ts Soeraya Satem Ahmad
5.55 pm	Token of Appreciation from The Honorable Ts Soeraya Satem Ahmad to Prof. Sudesh Kumar, FASc.
6.00 pm	Announcement of Next ISBP
6.10 pm	Photography Session

TEA & REFRESHMENTS

6.10 pm