

DNA Day 2026

Indonesian Association for Clinical Chemistry and Laboratory Medicine

*IACC bekerjasama dengan
Lembaga Pelatihan Kolegium Patologi Klinik*

Genomics Innovation in Clinical and Laboratory Medicine

Workshop & Seminar

Hotel Aryaduta Jakarta
18 - 19 April 2026

* SKP Kemenkes (TBC)



LATAR BELAKANG

Perkembangan teknologi genetika dan biologi molekuler telah mengubah paradigma dunia kesehatan, dari pendekatan pengobatan konvensional menuju Precision Medicine.

Di tahun 2026, tantangan bagi para profesional laboratorium klinis dan praktisi kesehatan bukan lagi sekadar cara membaca DNA, melainkan bagaimana menginterpretasikan data genomik yang masif menjadi keputusan klinis yang akurat. Indonesian Association for Clinical Chemistry and Laboratory Medicine (IACC), sebagai garda terdepan dalam pengembangan kimia klinik di Indonesia, memandang perlu adanya wadah edukasi berkelanjutan untuk menjembatani kesenjangan antara inovasi laboratorium dan aplikasi klinis.

Penyelenggaraan Seminar DNA Day 2026 oleh IACC menjadi sangat krusial mengingat kompleksitas implementasi teknologi ini di Indonesia. Saat ini, tantangan diagnostik tidak lagi hanya terbatas pada penyakit infeksi, tetapi telah meluas ke berbagai bidang spesialisasi: Pemanfaatan Whole Exome Sequencing (WES), deteksi dini melalui Liquid Biopsy (Circulating DNA), penerapan terapi berbasis panduan genetik, Teknologi Non-Invasive Prenatal Testing (NIPT), dan lainnya.

Kegiatan Workshop dan Seminar DNA Day 2026 ini diselenggarakan untuk memperkuat peran laboratorium dalam ekosistem genomik nasional serta memastikan standar kualitas pengujian molekuler tetap terjaga demi keselamatan pasien.

BENTUK KEGIATAN

Kegiatan DNA Day 2026 meliputi :

1. Seminar
2. Workshop
3. *Industrial Session*
4. Pameran Alat Kesehatan

WORKSHOP : Sabtu, 18 April 2026

Waktu	WORKSHOP PROGRAM Moderator: dr. Thyrsa Laudamy Darmadi, Sp.PK	Narasumber
09.00 - 10.00	Session 1 Fundamentals of NGS and Workflows	Dr. Miswar Fattah, M.Si
10.00 - 11.00	Session 2 Wet Lab Tips: Library Prep and Quality Control	Kartika Eka Putri, S.Si.
11.00 - 11.30	Session 3 Video Lecture: Wet Lab process	Naleya (TBC)
11.30 - 12.00	Industrial Session	
12.00 - 13.00	LUNCH, BOOTH VISIT	
13.00 - 13.30	Industrial Session	
13.30 - 14.15	Session 4 Wet Lab and Dry Lab QC, Validation, Comparison	Ahmad Rusdan H. Utomo, PhD
14.15 - 15.00	Session 5 NGS Data Analysis and Interpretation	dr. Ariel Pradipta, M.Res., PhD
15.00 - 15.45	Session 6 Interactive session: Somatic and Germline NGS Dataset	dr. Hubertus, SpPK
15.45 - 16.30	Session 7 Panel discussion	All speakers
16.30 - 16.45	Post-assessment dan penutupan	
16.45 - 17.00	BREAK, BOOTH VISIT	

SEMINAR : Minggu, 19 April 2026

Waktu	Seminar Program	Narasumber
8.30 - 9.00	Opening Ceremony and Opening Exhibition	
9.00 - 9.30	PLENARY LECTURE 1 Harnessing Circulating DNA Molecules in Plasma for Early Detection and Monitoring	Professor K.C. Allen Chan, MBBS, PhD, MRCP, FRCPA, FHKCPath, FHMAM
9.30 - 10.00	PLENARY LECTURE 2 Long-Read Sequencing Goes Clinical: structural variants, repeat expansions, phasing, methylation in one assay	Dr. Aping Mao, China
10.00 - 10.15	BREAK, BOOTH VISIT	
10.15 - 10.40	Keynote Lecture: Establishing Molecular Testing Regulation: Guideline, Ethics, and Data Confidentiality	Prof Leong Chee-Onn / Prof Vorasuk Shotelersuk (TBC)
Symposium 1: Human Genetics (Chair: dr. Thyrsa Laudamy Darmadi, Sp.PK)		
10.40 - 11.05	Indonesian Genomic Landscape: Ethics, Key Results and Ongoing Advances	Indri Rooslamati, M.Sc.,Apt
11.05 - 11.30	Basic to Bridge: An Introduction to Whole Exome Sequencing for Rare Diseases	Faris Muhammad Gazali, M.Biotech

11.30 - 11.55	NIPT in the Laboratory: Core Principles, Workflow, and Quality Foundations	Dr. Miswar Fattah, M.Si
11.55 - 12.10	Discussion	
12.10 - 12.30	Lunch (Industrial) Symposium	
12.30 - 13.30	LUNCH, BOOTH VISIT	
Symposium 2: Oncology Molecular (Chair: Dr. dr. Lyana Setiawan, Sp.PK, Subsp.Onk.K.(K))		
13.30 - 13.55	The Indonesian BRCA1/2 Landscape in Hereditary Cancer: From Genomic Epidemiology to Clinical Implementation	dr. Christine Sugiarto, Sp.PK(K)
13.55 - 14.20	Next Generation Sequencing and Molecular Testing in Early Cancer Detection	(Genesolution) TBC
14.20 - 14.45	MRD Molecular Testing Methods: Accuracy and Practical Choice	dr. Ariel Pradipta, M.Res, PhD
14.45 - 15.10	Discussion	
15.10 - 15.25	BREAK, BOOTH VISIT	

Symposium 3: Pharmacogenetics (Chair: dr. Zoya Marie Adyasa, M.Res)		
15.25 - 15.50	Pharmacogenetic Testing: Common Pitfalls and Nomenclature Challenges	Astrid Irwanto, PhD
15.50 - 16.15	Technical Foundations of Cardiovascular Pharmacogenomics: Genotyping Platforms, Workflow, and Interpretation	Winnie, MSc
16.15 - 16.40	Pharmacogenomics Update in Indonesian Biobank - Roles, Challenges and Future Decision	Inez Atmosukarto, Ph.D
16.40 - 17.05	Discussion	
17.05 - 17.30	Closing Ceremony	

Biaya Registrasi

Workshop, 18 April 2026

Kontribusi peserta: Rp 1.500.000,-
Early Bird (Sebelum 18 Maret 2026): Rp 1.250.000,-

Seminar, 19 April 2026

Kontribusi peserta: Rp 1.500.000,-
Early Bird (Sebelum 18 Maret 2026): Rp 1.250.000,-

Seminar & Workshop

Kontribusi peserta: Rp 2.500.000,-
Early Bird (Sebelum 18 Maret 2026): Rp 2.250.000,-

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