Integrating Genomics into National Healthcare:
Sharing Experience between Genomics Thailand and Genomics England
(GeT GEL Conference)
4th – 6th September 2019
MDCU Residence, 25th Floor, Faculty of Medicine, Chulalongkorn University,
Bangkok, Thailand

Wednesday September 4th, 2019	
Preconference Educational Lectures and Workshops (in Thai language): "Genomics for non-geneticists"	
08.30 – 09.00	Registration
	MC: Ms Rutairat Wongong
09.00 – 09.15	Welcome speech Professor Vorasuk Shotelersuk, MD Chair of Organizing Committee
09.15 – 09.45	Cell, chromosome, DNA, mutations: What clinicians should know. Dr. Ponghatai Damrongphol, MD Board certified in Pediatrics, Neurology and Genetics
09.45 – 10.15	Mendelian Inheritance and molecular pathomechanism for clinicians. Associate Professor Thantrira Porntaveetus, DDS, PhD
10.15 – 10.45	Chromosomal disorders, multifactorial inheritance, Polygenic risk scores. Dr. Prasit Phowthongkum, MD American board certified in Internal Medicine and Genetics
10.45 – 11.00	Refreshment and Booth
11.00 – 11.30	Non-classical inheritance (uniparental disomy, imprinting, dynamic mutations, triplet repeats, mitochondrial inheritance, contiguous gene syndrome). Professor Kanya Suphapeetiporn, MD, PhD

	American board certified in Pediatrics and Genetics
11.30 – 12.00	Industry 1: Macrogen's NGS service Ka-Young An NGS manager, Macrogen, South Korea
12.00 – 13.00	Lunch and Booth
	MC: Dr. Rungnapa Ittiwut, PhD
13.00 – 13.30	Industry 2: Biology at True Resolution: Exploring Genomes at Greater Resolution Joseph Aman Field Application Manager, RI Technologies Ltd.
13.30 - 14.00	Molecular technologies (PCR, Sanger, NGS, gene panel, exome, genome: short VS long read). Chalurmpon Srichomthong, MSc.
14.00 – 14.20	How to interpret a genetic/genomic report. Chanchira Toussami, RN, Genetic Counsellor
14.20 - 14.35	Break
14.35 – 14.55	Tips and pitfalls in interpretation of exome/genome: case studies from real experience. Dr. Chupong Ittiwut, PhD
14.55 – 15.15	Rapid whole genome sequencing: a new standard of care for seriously ill patients. Dr. Wuttichart Kamolvisit, MD board certified in Pediatrics, and Genetics
15.15 – 15.45	Somatic mutations and Cancer. Dr. Prasit Phowthongkum, MD American and Thai board certified in Internal Medicine and Genetics
15.45 – 16.00	Q & A

Thursday 5th September 2019	
Learning from Genomics England	
07.45 – 08.15	Register
	MC: Associate Professor Thantrira Porntaveetus, DDS, PhD
08.15 – 08.20	Welcome speech Professor Suttipong Wacharasindhu, MD Dean, Faculty of Medicine, Chulalongkorn University
08.20 – 08.35	Opening Speech National Research Council and Genomics Thailand Professor Sirirurg Songsivilai, MD Secretary, National Research Council
08.35 – 08.50	Chulalongkorn University and Genomics Medicine Professor Kiat Ruxrungtham, MD Vice President, Chulalongkorn University
08.50 – 09.00	Group photo
09.00 – 10.00	Keynote Presentation Precision Medicine – Overview/Ciliopathies: From Bedside to Bedside Professor Philip Beales, MD Institute of Child Health, University College London, UK
10.00 – 10.30	Refreshment and booth
10.30 – 11.30	Congenica and the UK100K Genomes Project: Providing clinical decision support for whole genome analysis, the diagnosis of inherited and de novo genetic disorders and implementation and scale-up for the NHS National Genomic Medicine Service. Professor Nick Lench, PhD Congenica, UK
11.30 – 12.00	Industry 3: Illumina's genomics solutions - enabling fast, accurate, cost effective analysis Gabriel Kolle, PhD Manager, Bioinformatics Sales Specialists, Asia Pacific and Japan at Illumina

12.00 – 13.00	Lunch
	MC: Chanatjit Cheawsamoot. M.Sc
13.00 – 13.30	Industry 4: Widespread use of Massively Parallel Sequencing in Population Genome Projects and translational Medicine Fang Chen Director of Maternal and Child Health Institute in BGI-Shenzhen and Deputy Director of Application Transfer Center in MGI, Beijing Genome Institute, China
13.30 – 14.30	Pharmacogenomics for Rare Diseases – Utilising Genome Sequences Professor Philip Beales, MD Institute of Child Health, University College London, UK
14.30 – 14.45	Break
14.45 – 15.45	MultiOmics of Rare Diseases Daniel Kelberman, PhD Senior Research Associate Institute of Child Health, University College London, UK
15.45 – 16.45	CongenicaTM – clinical decision support software for the analysis and interpretation of next generation DNA sequencing data and the diagnosis of germline and de novo genetic disorders. Professor Nick Lench, PhD Congenica, UK

Friday 6th September 2019	
Genomics Thailand: Policy, Strategies & Workflow	
08.30 – 09.00	Register
	MC: Dr Chureerat Phokaew, PhD
09.00 – 09.30	Genomics Thailand: Present status and Bioresource Nusara Satproedprai, PhD Ministry of Public Health (MOPH), Thailand
09.30 – 10.00	Data Center: policy and management Dr. Sissades Tongsima, PhD National Science and Technology Development Agency (NSTDA) Ministry of Higher Education, Science, Research and Innovation, Thailand
10.00 – 10.30	Refreshment and booth Networking
10.30 – 11.00	Precision Oncology Professor Nattiya Hirankarn, MD, PhD
11.00 – 11.30	Pharmacogenomics Assistant Professor Pajaree Chariyavilaskul, MD, PhD
11.30 – 12.00	Industry 5: Genomics Solutions from Agilent: From sample to data Dr. Jeffrey Wee Chief Technology Officer, Genomax Technologies Co., Ltd
12.00 – 13.30	Lunch and Booth
	MC: Dr. Narin Intarak, PhD
13.30 – 14.30	Genomics Thailand: Future, Budget plan, Strategies Surakameth Mahasirimongkol MD, MSc, PhD Ministry of Public Health (MOPH), Thailand
14.30 – 15.00	Rare disease network Professor Vorasuk Shotelersuk, MD Director of the Center of Excellence for Medical Genetics, Faculty of Medicine, Chulalongkorn University, Thailand
15.00 – 16.00	Rare disease network: committee meeting