Curriculum Vitae



Assoc. Prof. Objoon Trachoo, M.D., Ph.D., FIBMS

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Assoc. Prof. Objoon Trachoo, M.D., Ph.D., FIBMS is a clinical geneticist who cares for patients and families with inherited conditions. He focuses on using precision medicine to help find accurate diagnoses, guide treatment choices, and support long-term health.

He provides comprehensive care and consultation for a broad spectrum of genetic disorders, such as:

- Genetic consultation for hereditary conditions such as thalassemia, sickle cell disease, hemophilia, polycystic kidney disease (PKD), Alport syndrome, Turner syndrome (45,X), Klinefelter syndrome (47,XXY), Jacobs syndrome (47,XYY), Triple X syndrome (47,XXX), cystic fibrosis, neurofibromatosis types 1 and 2 (NF1/NF2), tuberous sclerosis, Ehlers-Danlos syndrome, mitochondrial diseases, Gaucher disease, Fabry disease, citrin deficiency, achondroplasia and osteogenesis imperfecta
- Cancer genetics such as hereditary breast and ovarian cancer syndrome (BRCA1/BRCA2), Lynch syndrome, familial adenomatous polyposis (FAP), Li-Fraumeni syndrome, von Hippel-Lindau (VHL) syndrome and multiple endocrine neoplasia (MEN)
- Cardiovascular genetics such as familial hypercholesterolemia (FH), hypertrophic cardiomyopathy (HCM), dilated cardiomyopathy (DCM), arrhythmogenic right ventricular cardiomyopathy (ARVC), long QT syndrome, Brugada syndrome, Marfan syndrome and complex congenital heart disease
- Neurodevelopmental disorders and birth defects such as autism spectrum disorders, intellectual disabilities, developmental delay, epilepsy, Down syndrome, Edwards syndrome, Patau syndrome,

DiGeorge syndrome, Prader-Willi syndrome, Angelman syndrome, Fragile-X syndrome, Noonan syndrome, neural tube defects and craniosynostosis

- Neurogenetic and sensory organ genetic disorders such as spinal muscular atrophy (SMA), Duchenne and Becker muscular dystrophy (DMD/BMD), Pompe disease, Huntington's disease, spinocerebellar ataxia (SCA), myotonic dystrophy, Charcot-Marie-Tooth disease, retinitis pigmentosa, retinal dystrophy, Usher syndrome, Waardenburg syndrome and hearing loss
- Preimplantation genetic testing (PGT) and prenatal genetic diagnosis (PND), including identification of gene mutations in embryos created through IVF technology and in fetuses via amniocentesis for the aforementioned conditions, consultation regarding abnormal non-invasive prenatal testing (NIPT) results and management of fetuses with chromosomal abnormalities

Dr. Objoon graduated with first-class honors from Mahidol University and completed his training in Internal Medicine at Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok. He later earned a PhD focused on developmental biology of neurological systems and sensory ganglion neurons from the University of Sheffield, United Kingdom. He is board-certified in Internal Medicine in Thailand and holds a European Diploma in Medical Genetics and Genomics. He is also a Fellow of the Institute of Biomedical Science (UK) and an active member of the prestigious British Society of Genetic Medicine.

Before joining Samitivej Sukhumvit Hospital, Dr. Objoon built a distinguished career in clinical medicine, academic leadership, and biomedical research at renowned institutions, including the Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand, and VinUniversity, Vietnam, whose medical education program was developed in partnership with the University of Pennsylvania, USA.

Over 16 years of academic and clinical practice, he has made significant contributions to the education and development of future healthcare professionals while providing comprehensive patient care and advancing the field through research and innovation. His dedication to excellence in medicine, education and scientific discovery continues to contribute to better health outcomes and the advancement of healthcare for society at large.

In addition, Dr. Objoon is internationally recognized in the field of clinical genetics, and serves on the editorial boards of several peer-reviewed journals, including Orphanet Journal of Rare Diseases, BMC Genomics, BMJ Connections Clinical Genetics and Genomics, and Gene Reports.

Dr. Objoon's clinical and research interests encompass hemoglobinopathies, neurodevelopmental disorders, neurogenetics, inherited cardiac conditions, sensory organ disorders, rare and undiagnosed diseases and fetal and reproductive medicine.

His research portfolio is available on:

- ORCID: https://orcid.org/0000-0001-7867-3238
- Google Scholar: https://scholar.google.com/citations?user=xKanvYYAAAAJ&hl=en

As Director and Clinical Genetics Lead of the Genomic Medicine Center, Dr. Objoon leads a team dedicated to integrating genetics into everyday healthcare. His goal is to help patients receive the right diagnosis, the right treatment, and the right care at the right time, improving health outcomes at every stage of life.

Expertise:

- Diagnosis and management of genetic disorders across all ages
- Neurogenetics and neurodevelopmental disorders
- Inherited cardiac conditions
- Sensory organ genetics
- Cancer genetics and cancer predisposition syndromes
- Thalassemia and hemoglobinopathies
- Fetal genetics and preimplantation genetic diagnosis for monogenic disorders
- Rare and undiagnosed diseases

Education and Certifications:

- 2023 Certification of Qualifications for Medical Practitioners in Genomic Medicine, The Medical Council of Thailand
- 2020 Fellowship of the Institute of Biomedical Science, Genetics (FIBMS), United Kingdom
- 2019 European Diploma in Medical Genetics and Genomics, European Union of Medical Specialists (UEMS)
- 2010 PhD in Biomedical Science, University of Sheffield, United Kingdom
- 2006 Diploma of the Thai Board of Internal Medicine, The Medical Council of Thailand

- 2000 Doctor of Medicine, First Class Honors, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand

Licenses:

- 2000 Medical License, The Medical Council of Thailand (License No. 25818)