



Ng Oon Tek

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Deputy Head, Infectious Disease Research Laboratory, NCID
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Research Interests:

- General Infectious Diseases
- Antimicrobial Resistance
- Emerging Infectious Disease
- HIV Medicine

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Biography

A/Prof Ng Oon Tek received his MBBS from the National University of Singapore. He completed Internal Medicine training within the Singhealth cluster and obtained his MRCP (UK) and M Med (Internal Medicine) in 2004, obtaining the Siah Cheng Siah Gold medal for being the best Internal Medicine candidate. He subsequently completed his Infectious Disease subspecialty training at Tan Tock Seng Hospital in 2008.

His research interests focus on integrating public health, laboratory medicine and clinical medicine to improve patient outcomes. This is being applied to the use of whole-genome sequencing for the control of antimicrobial resistance especially carbapenem-resistance Gram-negative infections.

Selected Publications

- Ng OT, Marimuthu K et al. SARS-CoV-2 Seroprevalence and Transmission Risk Factors among High-risk Close Contacts: A Retrospective Cohort Study. *Lancet Infectious Disease*. 2020; [In press]. doi: [https://doi.org/10.1016/S1473-3099\(20\)30833-1](https://doi.org/10.1016/S1473-3099(20)30833-1).
- Chia PY, Coleman KK, Tan YK...Ng OT et al. Detection of air and surface contamination by SARS-CoV-2 in hospital rooms of infected patients. *Nat Commun*. 2020; 11(1):2800. doi: 10.1038/s41467-020-16670-2. PMID: 32472043. <https://pubmed.ncbi.nlm.nih.gov/32472043/>.
- Chng KR...Ng OT, Marimuthu K, Ang B, Nagarajan N. Cartography of opportunistic pathogens and antibiotic resistance genes in a tertiary hospital environment. *Nat Med*. 2020; 26(6):941-951. doi: 10.1101/644740. PMID: 32514171. <https://pubmed.ncbi.nlm.nih.gov/32514171>.
- Young BE...Ng OT et al. Epidemiologic Features and Clinical Course of Patients Infected with SARS-CoV-2 in Singapore. *JAMA*. 2020; 323(15):1488-1494. doi: 10.1001/jama.2020.3204. PMID: 32125362. <https://pubmed.ncbi.nlm.nih.gov/32125362>.
- Si Z, Lim HW, Tay MYF, Du Y, Ruan L...Ng OT et al. A Glycosylated Cationic Block Poly (B-peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gram-Negative Bacteria. *Angew Chem Int Ed Engl*. 2020; 59(17):6819-6826. doi: 10.1002/anie.201914304. PMID: 32011781. <https://pubmed.ncbi.nlm.nih.gov/32011781>.

- Ng OT, Marimuthu K et al. SARS-CoV-2 infection among travelers returning from Wuhan, China. *N Engl J Med*. 2020; 382(15):1476-1478. doi: 10.1056/NEJMc2003100. PMID: 32163698. <https://pubmed.ncbi.nlm.nih.gov/32163698/>.
- Ong SWX, Tan YK, Chia PY, Lee TH, Ng OT, Wong MSY, Marimuthu K. Air, Surface Environmental, and Personal Protective Equipment Contamination by Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) From a Symptomatic Patient. *JAMA*. 2020; 323(16):1610-1612. doi: 10.1001/jama.2020.3227. <https://www.ncbi.nlm.nih.gov/pubmed/32129805>.

Notable Research Awards & Grants From Past 5 Years

Name of Awards & Grants	Year Obtained
National Medical Research Council (NMRC) Clinician Scientist Award (CSA) for “Clinical translation of whole genome sequencing to inform infection control and decrease mortality and morbidity from carbapenemase-producing Enterobacteriaceae infection”	2016
NMRC Clinician Scientist Individual Research Grant (CS-IRG) for “Whole-genome Sequencing to Assess Effectiveness of Control Strategies Combating Carbapenemase-producing Enterobacteriaceae in Singapore from 2010 to 2015: the Carbapenemase-Producing Enterobacteriaceae (CaPES) Study Group”	2016
National Medical Research Council (NMRC) Clinician Scientist Award (CSA) for “Oral capsule-administered faecal microbiota transplantation for intestinal carbapenemase-producing Enterobacteriaceae decolonization”	2019
NHG-LKCMedicine Clinician Scientist Fellowship (CSF)	2019

Translating Research Into Healthcare

- Initial results of study find no community spread of Covid-19 in Singapore as of end-March. *Today Online*. Published 29 April 2020. <https://www.todayonline.com/singapore/initial-results-study-find-no-community-spread-covid-19-singapore-end-march>
- Only 5% who shared a home with patients caught Covid-19. *The Straits Times*. Published 30 April 2020. <https://www.straitstimes.com/singapore/only-5-who-shared-a-home-with-patients-caught-covid-19>