



CURRICULUM VITAE

DR. MOHD NASIR MOHD DESA

DEPARTMENT OF BIOMEDICAL SCIENCES
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Academic Qualifications
BSc (U. Arizona), MMedSc & PhD (U. Malaya)

Present Positions
Lecturer

Previous Employment
Tutor

RESEARCH ACTIVITIES

RESEARCH TITLE	PLACE	ROLE & SOURCE OF FUND	STATUS
Multidrug-resistance <i>Streptococcus pneumoniae</i> : molecular epidemiology and PBP characterization of Malaysian isolates	University of Malaya	Principal investigator; University of Malaya Short Term Grants (Vot F); 2000 - 2002	Completed
Functional genomics of <i>Streptococcus pneumoniae</i> virulence	University of Malaya	Researcher; University of Malaya Fundamental Grant; 2005 - 2006	Completed
Molecular analysis of CBP genes of the clinical isolates of <i>Streptococcus pneumoniae</i>	University of Malaya	Principal investigator; University of Malaya Post-Graduate Research Fund; 2007 - 2008	Completed
Development of high antibiotic production-induction media for local Actinomycete spp.	Universiti Putra Malaysia	Principal investigator; RUGS; 2009 - 2011	On-going

PUBLICATIONS

A. Scientific papers-journal/proceedings/abstracts

- Thong KL, Mohd Nasir MD, Goh YL, Ngeow YF & Parasakthi N. Rapid pulsed-field gel electrophoresis method for *Streptococcus* spp. *Asia Pacific Journal of Molecular Biology and Biotechnology* 2001; 9: 143-145.
- Desa MN, Thong, KL, Rohani, MY & Parasakthi, N. Penicillin susceptibility and molecular characteristics of clinical isolates of *Streptococcus pneumoniae* at the University of Malaya Medical Centre, Kuala Lumpur, Malaysia. *International Journal of Infectious Diseases* 2003; 7: 190-197.
- Desa MN & Parasakthi, N. Comparison of susceptibility test methods to detect penicillin susceptibility in *Streptococcus pneumoniae* isolates. *Malaysian Journal of Pathology* 2004; 26: 29-33.

- Desa MN, Thong, KL & Parasakthi N. A correlation between the genes responsible for penicillin- and erythromycin-resistance in *Streptococcus pneumoniae* and the MICs: A potential approach for molecular detection of susceptibility. *Malaysian Journal of Biochemistry and Molecular Biology* 2005; 12: 55-57.
- Desa MN, Sekaran SD, Vadivelu J & Parasakthi N. Distribution of CBP genes in *Streptococcus pneumoniae* isolates in relation to vaccine types, penicillin susceptibilities and clinical sites. *Epidemiology and Infection* 2008; 136: 940-942.
- Desa MN, Parasakthi N, Vadivelu J & Sekaran SD. Differential adherence capacities of clinical isolates of *Streptococcus pneumoniae* at different growth states to human respiratory epithelial cells (*in vitro*). *Asian Journal of Cell Biology* 2008; 3: 61-66.
- Desa MN, Parasakthi N, Vadivelu J & Sekaran SD. Expression analysis of adherence-associated genes in pneumococcal clinical isolates during adherence to human respiratory epithelial cells (*in vitro*) by real-time PCR. *FEMS Microbiology Letter* 2008; 288: 125-130.
- MR Sulaiman, Zakaria ZA, Abdul Rahman A, Mohamad AS, Desa MN, Stanslas J, Moin S & Israf DA. Antinociceptive and antiedematogenic activities of andrographolide isolated from *Andrographis paniculata* in animal models. *Biological Research for Nursing* 2010; 11: 293-301.
- Mohd Nasir MD, Parasakthi N & Nambiar, S. *In vitro* susceptibility of *Streptococcus pneumoniae* in the University of Malaya Medical Centre, Kuala Lumpur 1999-2000 [Abstract P1.30]. In: *Program and abstracts of the 7th Western Pacific Congress of Chemotherapy and Infectious Diseases*. Hong Kong: International Society of Chemotherapy, 2000.
- Mohd Nasir MD, Thong KL & Parasakthi N. Penicillin-resistant/intermediate and penicillin-sensitive *Streptococcus pneumoniae*: A comparison of their antibiotic susceptibility, PFGE and PBP gene fingerprint patterns [Abstract 34.024]. In: *Program and abstracts of the 10th International Congress on Infectious Diseases*. Singapore: International Society for Infectious Diseases, 2002.
- Mohd Nasir MD, Parasakthi N & Thong KL. Penicillin-resistant *Streptococcus pneumoniae*: molecular characteristics and mechanisms of resistance of Malaysian isolates [Paper 87]. In: *Prosiding Seminar Penyelidikan Jangka Pendek Universiti Malaya 2003*. Kuala Lumpur: Institute of Research Management and Consultancy, University of Malaya, 2003.
- Desa MN, Sekaran SD, Vadivelu J & Parasakthi N. Differential adherence capacities of pneumococcal clinical isolates at different growth states to human lung epithelial cells (*in vitro*) [Abstract T3-P27]. In: *Program and abstracts of the 12th Biological Sciences Graduate Congress*. Kuala Lumpur: University of Malaya, 2007.
- Desa MN, Vadivelu J, Sekaran SD & Parasakthi N. Serotype-specific invasiveness and carriage prevalence in pneumococci in relation to growth pattern *in vitro* [Abstract ISE.088]. In: *Abstracts, International Scientific Exchange of the 13th International Congress on Infectious Diseases*. Kuala Lumpur: International Society for Infectious Diseases, 2008.
- Desa MN, Sekaran SD & Vadivelu J. Comparison of relative gene expression analysis by basic method and the application of mathematical formula of adherence-associated genes during pneumococcal adherence to lung epithelial cells by real-time PCR (*in vitro*) [Abstract PP14]. In: *Proceedings of 3rd Regional Conference on Molecular Medicine 2009*. Kota Bharu: Institute for Research in Molecular Medicine, USM, 2009.
- Desa MN, Sekaran SD & Vadivelu J. A comparison between growth and adherence capacity *in vitro*: a preliminary evidence for pneumococci to exhibit virulence properties best at their mid- and late-log phases of growth [Abstract 559]. In: *Book of Abstracts III International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2009)*. Lisbon (Portugal): Formatex Research Center, 2009.

B. BOOKS/ MONOGRAPHS/ LEARNING TEACHING MATERIALS

none

TEACHING

- Basic Medical Microbiology (SBP3403)
- Advanced Medical Microbiology (SBP4401)
- Cell Biology (SBP3101)
- Industrial Training (SBP3901)

POSTGRADUATE

1. Isolation and characterization of antibiotic producing actinomycetes from local soil (MSc)