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| **DINESH SUBEDI** | Research Fellow (Barr Lab)  School of Biological Sciences, Monash University  Tel: (+61) 0399053784  Email: [dinesh.subedi@monash.edu |](mailto:dinesh.subedi@monash.edu%20|) subedi.dnes@gmail.com |

**ACADEMIC QUALIFICATION**

**Doctor of Philosophy** UNSW, Sydney, Australia **Aug 2015 – Mar 2019**

(Outstanding thesis remarks)

**Master’s Degree** Tribhuvan University, Nepal **Oct 2006 – Sep 2008**

Medical Microbiology

(Distinction average)

**Bachelor’s in science** Tribhuvan University, Nepal **Sep 2003 – Aug 2006**

(First division and class topper**)**

**RELEVANT EXPERIENCE AND PROJECTS**

**Research experience**

**Apr 2019 – Sep 2019**

**Post-doctoral research associate |** **University of New South Wales, Australia**

Projects: Host response in microbial keratitis,

Genotyping the host immune profile in Acanthamoeba keratitis

**Jun 2017 – Dec 2018**

**Research assistant |** **University of New South Wales, Australia**

Project: Genomic analysis of *Acanthamoeba* form tap water.

**Teaching experience**

**Jul 2016- Dec 2018**

**Teaching assistant | University of New South Wales, Australia**

Tutoring and the evaluation of undergraduate student performance

**Jan 2009 – Jun 2014**

**Lecturer in various colleges and Universities in Nepal**

1. Department of Pharmacy | Purbhanchal University, Nepal
2. Department of Public Health, National Open College, Pokhara University
3. Asian College of Medical Sciences and Technology, Kupandole, Lalitpur

**RECENT HONOURS, AWARDS** & **PERSONAL CONTRIBUTIONS**

UNSW Science PhD writing scholarship (2019)

Travel Scholarship EMBL Australia (2018)

PRSS travel scholarship, UNSW (2018)

Conference scholarship Molecular Microbiology Meeting, ASM (2018)

Best science photo award School of Optometry and Vision Science UNSW (2018)

PhD Scholarship School of Optometry and Vision science and UNSW (2016-2018).

**PERSONAL CONTRIBUTIONS AND MEMBERSHIPS**

Post-graduate student representative UNSW (2017-2018)

General Member of ASM Australia (2015-till date)

Member of ASM USA (2016-till date)

Reviewers of peer-reviewed Journals

Examined two undergraduate research reports

Reviewed one PhD confirmation review document

**List of Publications**

**Under progress**

1. Nicole A. Carnt,**Dinesh Subedi**,Sophie Connor,and Simon Kilvington. The relationship between environmental sources and the susceptibility of *Acanthamoeba* keratitis in the United Kingdom (Under review PlosONE).
2. Nicole A. Carnt,**Dinesh Subedi**,Ann Wen Lim,Rebecca Lee,Priyal Mistry,Paul R. Badenoch, Simon Kilvington,Debarun Dutta**.** The prevalence and seasonal variation of *Acanthamoeba* in domestic tap-water in Greater Sydney region, Australia (Under review Clinical and Experimental Optometry).
3. **Dinesh Subedi,**  Ajay K. Vijay, Scott A. Rice, Mark Willcox. Cytotoxic factor influencing acquired antimicrobial resistance in *Pseudomonas aeruginosa. (In press Microbiology Australia)*

**Published**

1. **Subedi D,** Kohli GS, Vijay AK, Willcox M, Rice SA (2019) Accessory genome of the multi-drug resistant ocular isolate of Pseudomonas aeruginosa PA34. PLoS ONE 14(4): e0215038. https://doi.org/10.1371/journal.pone.0215038
2. **Subedi D,** Vijay AK, Kohli GS, Rice SA, Willcox M (2018) Comparative genomics of clinical strains of *Pseudomonas aeruginosa* isolated from different geographic sites. 8 (1) Scientific reports DOI: 10.1038/s41598-018-34020-7
3. **Subedi D,** Vijay AK, Willcox M (2018) Study of Disinfectant Resistance Genes in Ocular Isolates of *Pseudomonas aeruginosa*. Antibiotics 7 (4), 88
4. **Subedi D,** Vijay AK, Kohli GS, Rice SA, Willcox M (2018) Association between possession of ExoU and antibiotic resistance in Pseudomonas aeruginosa. PLoS ONE 13(9): e0204936. <https://doi.org/10.1371/journal.pone.0204936>.
5. **Subedi D**, Vijay AK, Kohli GS, Rice S, Willcox M. (2018) Nucleotide sequence analysis of NPS-1 β-lactamase and a novel integron (In1427)-carrying transposon in an MDR *Pseudomonas aeruginosa* keratitis strain. Journal of Antimicrobial Chemotherapy. 2018 Jun 1;73(6):1724-1726.
6. **Subedi D,** Vijay AK, Willcox M. (2018) Overview of mechanisms of antibiotic resistance in *Pseudomonas aeruginosa*: an ocular perspective. Clinical and Experimental Optometry 2018; 101: 162-71.
7. **Subedi, D**. and Taylor-Robinson, A. (2016) Epidemiology of dengue in Nepal: history of incidence, current prevalence and strategies for future control. Journal of vector borne diseases 53 (1), 1 6.
8. **Subedi, D.** and Taylor-Robinson, A. (2015) Development of a Dengue Vaccine in Humans: So Near, Yet So Far SOJ Vaccine Research. SOJ Vaccine Res 1 (1), 71.
9. Gautam, S. **Subedi, D.** and Taylor-Robinson, A. (2015) Anti-Idiotype Antibody against Pre-Membrane-Specific Antibody as an Adjunct to Current Dengue Vaccination Strategy. Immun. Dis 3, 1-7 1.
10. **Subedi, D.** and Taylor-Robinson, A. (2014) Laboratory Diagnosis of Dengue Infection: Current Techniques and Future Strategies. Open Journal of Clinical Diagnostics 4 (01), 63 16.
11. **Subedi, D,** Adhikari, S, Bhatta DR and Acharya, GP (2010) Bacteriological Profile of Neonatal Septicaemia (master’s dissertation). <http://202.70.82.238/cgi-bin/koha/opac-ISBDdetail.pl?biblionumber=61785>

**Conference Presentation**

**Oral presentations**

1. Accessory genome derives the virulence and resistance of the ocular isolate of *Pseudomonas aeruginosa*. *February 2019, Mobile genetic element 2019, Melbourne, Australia*

2. Possessions of exoU by *Pseudomonas aeruginosa* is associated with increased mutations in beta lactam resistance genes. *June 2018, ASM microbe2018, Atlanta, USA*.

3. Association between pathogenic factors and antibiotic resistance in *Pseudomonas* *aeruginosa*.

September 2017, *BacPath 14 Adelaide, Australia.*

4. Phenotypic and genotypic characterisation of multi-drug resistance in *Pseudomonas* *aeruginosa* from keratitis. *April 2017, Mobile genetic element, Sydney, Australia.*

**Poster presentations**

1. Accessory genome drives virulence and resistance of the ocular isolate of *P. aeruginosa.* April 2019,Annual conference of Microbiology Society of UK, Belfast, UK.

2. Accessory genome drives virulence and resistance of the ocular isolate of *P. aeruginosa.* November 2018,EMBL PhD symposium*,* Heidelberg, Germany.

3. Possessions of exoU by *Pseudomonas aeruginosa* is associated with increased mutations in beta lactam resistance genes. *June 2018, ASM microbe2018, Atlanta, USA.*

4. Phenotypic and genotypic characterization of multidrug resistance *Pseudomonas aeruginosa*.

*April 2018, Molecular Microbiology Meeting 2018, Sydney, Australia.*

*November 2017, EMBL Australia, Post graduate symposium, Sydney, Australia*

5. Comparison of drug resistance profile of clinical isolates of *Pseudomonas aeruginosa.*

March 2017, *Solution for drug resistance infections, Brisbane, Australia.*