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Postdoctoral Researcher  
Department of Microbiology, Immunology and Molecular Genetics  
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**Education:**

- 2019-Present University of Texas Health Science Center at San Antonio  
Postdoctoral Fellow
- 2013-2018 University of California Riverside  
Doctor of Philosophy
- 2008-2012 California State University Long Beach  
Master of Science
- 2004-2008 California State University Long Beach  
Bachelor of Science

**Research Experience:**

- 2019-Present Postdoctoral Fellow  
University of Texas Health Science Center at San Antonio  
Department of Microbiology, Immunology and Molecular Genetics  
Advisor: Dr. Evelien M. Bunnik  
*Understanding protective immunity to malaria*
- 2013-2018 Graduate Student  
University of California Riverside  
Department of Molecular, Cell and Systems Biology  
Advisor: Dr. Karine G. Le Roch  
*Exploring chromatin structure regulation in the human malaria parasite, Plasmodium falciparum*
- 2008-2012 Graduate Student  
California State University Long Beach  
Department of Biology  
Advisor: Dr. Lisa S. Klig  
*The study of inositol metabolism in Drosophila melanogaster*

- 2010-2011      CIRM Funded Research Intern  
University of California Irvine  
School of Biological Sciences  
Advisor: Dr. Leslie M. Thompson  
*Using induced pluripotent stem (iPS) cells and neural progenitor cells to study differential gene expression in Huntington's disease patients*
- 2005-2008      Undergraduate Researcher  
California State University Long Beach  
Advisor: Dr. Lisa S. Klig  
*Computational analysis of inositol metabolism in fungi *Cryptococcus neoformans**

**Publications:**

1. Bunnik EM, Venkat A, Shao J, McGovern KE, **Batugedara G**, Worth D, Prudhomme J, Lapp SA, Andolina C, Ross LS, Lawres L, Brady D, Sinnis P, Nosten F, Fidock DA, Wilson EH, Tewari R, Galinski MR, Ben Mamoun C, Ay F, Le Roch KG. Comparative 3D genome organization in apicomplexan parasites. *Proceedings of the National Academy of Sciences (PNAS)* (in print).
2. **Batugedara G**, Le Roch KG. Unraveling the 3D genome of human malaria parasites. *Seminars in Cell and Developmental Biology*. 2018 Jul 27. pii: S1084-9521(18)30152-6. PMID: 30009946.
3. Bunnik EM, Cook KB, Varoquaux N, **Batugedara G**, Prudhomme J, Cort A, Shi L, Andolina C, Ross LS, Brady D, Fidock DA, Nosten F, Tewari R, Sinnis P, Ay F, Vert JP, Noble WS, Le Roch KG. Changes in genome organization of parasite-specific gene families during the *Plasmodium* transmission stages. *Nature Communications*. 2018 May 15;9(1):1910. PMID: 29765020.
4. Lapp SA, Geraldo JA, Chien JT, Ay F, Pakala SB, **Batugedara G**, Humphrey MaHPIC consortium, DeBARRY JD, Le Roch KG, Galinski MR, Kissinger JC. PacBio assembly of a *Plasmodium knowlesi* genome sequence with Hi-C correction and manual annotation of the SICAvAr gene family. *Parasitology*. 2018 Jan;145(1):71-84. PMID: 28720171.
5. Lu XM, **Batugedara G**, Lee M, Prudhomme J, Bunnik EM, Le Roch KG. Nascent RNA sequencing reveals mechanisms of gene regulation in the human malaria parasite *Plasmodium falciparum*. *Nucleic Acids Research*. 2017 Jul 27;45(13):7825-7840. PMID: 28531310.

6. **Batugedara G**, Lu XM, Bunnik EM, Le Roch KG. The role of chromatin structure in gene regulation of the human malaria parasite. *Trends in Parasitology*. 2017 May;33(5):364-377. PMID: 28065669.
7. Bunnik EM, **Batugedara G**, Saraf A, Prudhomme J, Florens L, Le Roch KG. The mRNA-bound proteome of the human malaria parasite *Plasmodium falciparum*. *Genome Biol*. 2016 Jul 5;17(1):147. PMID: 27381095.
8. HD iPSC Consortium. Induced pluripotent stem cells from patients with Huntington's disease show CAG-repeat-expansion-associated phenotypes. *Cell Stem Cell*. 2012 Aug 3;11(2):264-78.

#### Oral Presentations:

- 11/2018      8<sup>th</sup> Annual Southern California Eukaryotic Pathogen Symposium, Riverside CA. The role of lncRNAs in malaria parasites: deciphering the non-coding code of pathogenicity.
- 12/2017      7<sup>th</sup> Annual Southern California Eukaryotic Pathogen Symposium, Riverside CA. The Chromatin Bound Proteome of the Human Malaria Parasite.

#### Poster Presentations:

- 11/2016      Molecular Parasitology Meeting, Woods Hole, MA.  
Discovery of protein complexes that control the chromatin structure of the human malaria parasite.
- 09/2016      Molecular Parasitology Meeting, Woods Hole, MA.  
Discovery of protein complexes that control the chromatin structure of the human malaria parasite.
- 04/2012      Experimental Biology, ASBMB, San Diego, CA  
Gender specific expression of *myo*- inositol-3-phosphate synthase  
*Drosophila melanogaster*
- 09/2012      CSU Biotechnology Symposium, Santa Clara, CA  
Gender specific isoforms of the inositol synthetic enzyme (*myo*-inositol-3-phosphate synthase) in *Drosophila melanogaster*
- 07/2011      CIRM Bridges Trainee Meeting, Burlingame, CA  
Gene expression analysis of Huntington's disease induced pluripotent stem (iPS) and neural progenitor cells.

**Mentorship responsibilities:**

2016-2018	Anthony Cort	Undergraduate Student
2016-2018	Tina Wang	Undergraduate Student
2013-2015	Chris Conner	Undergraduate Student
2011-2013	Cristie Donham	Undergraduate Student
2010-2012	Natasha Jackson	Undergraduate Student