



# CV

**Dr. Gustavo M. Cerqueira PhD, MSc, BSc**

## **PERSONAL INFORMATION**

Birthday: 14/12/1980 (Age, 36)  
 Place of residence: Mapleton 4560, QLD, Australia  
 Place of birth: Pelotas, RS, Brazil  
 Citizenship: Australian and Brazilian (dual)

## **PROFISSIONAL INFORMATION**

Address: Cluster Biotechnology PTY LTD  
 Caloundra West 4551, QLD - Australia  
 Phone: (+61) 447127089 - mobile  
 E-mail: [gustavo.cerqueira@clusterbiotech.com](mailto:gustavo.cerqueira@clusterbiotech.com)  
 Website : [www.clusterbiotech.com](http://www.clusterbiotech.com)

## **Contents**

PERSONAL INFORMATION .....	1
PROFISSIONAL INFORMATION .....	1
QUALIFICATIONS.....	2
RESEARCH EXPERIENCE.....	2
MEMBER OF SCIENTIFIC COMISSIONS .....	3
GRANTS AND FELLOWSHIPS .....	4
RECENT PUBLICATIONS (* most relevant, last five years) .....	4
BOOK CHAPTERS .....	8
MANUSCRIPTS IN PREPARATION .....	8
TECHNICAL WORK.....	8
INVITED TALKS.....	9
ORAL AND POSTER PRESENTATIONS IN CONFERENCES .....	9
TEACHING EXPERIENCE.....	10
SUPERVISION OF STUDENTS .....	11
AWARDS AND TITLES .....	11
COMPUTER SKILLS.....	11
LANGUAGE SKILLS .....	12
OTHER SCIENTIFIC CONTRIBUTIONS.....	12
Reviewer for scientific journals.....	12
Member of Scientific Advisory Board .....	12

## **QUALIFICATIONS**

**2015 – Current** Chief Executive Officer and Researcher at Cluster Biotechnology, Australia.

**2015 – Current** Program Researcher and Member of the Biodiscovery Program, Centre for Biodiscovery & Molecular Development of Therapeutics, James Cook University, Australia.

**2014 – 2015** Lecturer in Microbiology and Immunology at James Cook University, Department of Microbiology and immunology, Townsville campus, Australia.

**2011 – 2014** Research fellow – Life scientist at Monash University, Department of Microbiology, Clayton campus, Australia. [Identification of novel virulence factors of *Acinetobacter baumannii* with potential for drug development].

**2010 – 2010** Visiting scientist at the University of Connecticut Health Center, Farmington, CT, United States. [Influence of the Mammalian Host Environment on Gene Expression in *Leptospira* Interrogans]

**2009 – 2011** Postdoctoral researcher at the Instituto Butantan, Sao Paulo, Brazil. Development of a promoter-probe system to study promoters regulation in *Leptospira* and predict potential virulence factors].

**2007 – 2008** PhD (Part-time) in Molecular Biology of *Leptospira*, Institute Pasteur, Unité de Biologie des Spirochètes, Paris, France. [Development and use of new genetic tools for the study of *Leptospira* pathogenesis and genetics].

**2006 – 2009** PhD in Biotechnology, Universidade Federal de Pelotas, Pelotas, Brazil. [Evaluation of leptospiral antigens as immunogens as both sub-unit and DNA vaccines].

**2004 – 2006** Masters in Biotechnology. Universidade Federal de Pelotas, Pelotas, Brazil. [Characterization of *Leptospira* spp. with regard to the presence and conservation of the genes belonging to the *lig* family: important targets for vaccine and diagnosis development].

**2000 – 2004** Bachelor in Biological Sciences. Universidade Federal de Pelotas, Pelotas, Brazil. [Expression of the GP53 and NS3 proteins from the Bovine Viral Diarrhea Virus for use in diagnosis].

## **RESEARCH EXPERIENCE**

**2015 – Current** Discovery of novel microbial species among Australian environmental samples, and characterization of their role in Biotechnology, Cluster Biotechnology, Australia. (Coordinator).

**2015 – Current** Development of novel animal trackers and biomonitors for real-time assessment of animal health and location, Cluster Biotechnology/AppConn, Australia. (Coordinator).

**2013 – Current** Identification of *A. baumannii* sRNA molecules expressed *in vitro* vs. *in vivo* and characterization of their role in virulence, Monash University, Clayton, VIC, Australia. (collaboration).

**2011 – Current** Identification of *A. baumannii* virulence factors, Monash University, Clayton, VIC, Australia. (collaboration).

**2013 – 2014** Development of a novel animal model to study *Candida albicans* and *Acinetobacter baumannii* *in vivo* biofilm formation, during polymicrobial interaction, Monash University, Clayton, VIC, Australia. (collaboration).

**2011 – 2014** Piro and SMRT Genome Sequencing of *A. baumannii* hospital- and community-acquired isolates, Monash University, Clayton, VIC, Australia. (collaboration).

**2010 – 2010** Identification of novel virulence factors of *Leptospira interrogans* through use of a Dialysis Membrane Chamber animal model, University of Connecticut Health Center, Farmington, CT, USA.

**2009 – 2011** Evaluation of subunit vaccines against leptospirosis, Butantan Institute Butantan, Brazil.

**2009 – 2011** Identification of novel virulence factors of *L. interrogans*, Butantan Institute, Brazil.

**2008 – 2010** Development of a databank of leptospiral sequences, [www.lepbank.ufpel.edu.br](http://www.lepbank.ufpel.edu.br). University of Pelotas, Brazil.

**2006 – 2010** Obtaining and characterization of *Leptospira* spp isolates for vaccine challenge. University of Pelotas, Brazil.

**2006 – 2010** Construction and evaluation of DNA vaccines against *L. interrogans* and *E. coli* ETEC, University of Pelotas, Brazil.

**2004 – 2008** *Leptospira* spp. genome sequencing. Oswaldo Cruz Foundation, FIOCRUZ-BA, Federal University of Pelotas, Brazil and University of California at Los Angeles (UCLA, USA).

**2001 – 2007** Recombinant protein expression for vaccine development against infectious diseases (*Mycoplasma hyopneumoniae*, *L. interrogans*, *E. coli* ETEC), University of Pelotas, Brazil.

### **MEMBER OF SCIENTIFIC COMISSIONS**

**2015 – Current** Member of the Biodiscovery group – Centre for Biodiscovery of Molecules and Development of Therapeutics (CBMDT), Australia.

**2014 – 2014** Contributor to the Australian Antimicrobial Resistance Prevention and Containment Steering Group, Australia.

## **GRANTS, FELLOWSHIPS AND PRIVATE INVESTMENTS**

1. Private investment – Australia, 2017 (\$50,000)
2. Private investment – Australia, 2017 (\$195,000)
3. Private investment – Australia, 2016 (\$12,500)
4. Private investment – Australia, 2016 (\$250,000)
5. FAPESP – Brazil – Fellowship, 2009-2011 (\$ 114,000) ;
6. Kazakhstan National Scientific Council – 2015 (\$ 3,500);
7. Monash university – Australia - Travel grant, 2012 (\$ 2,000);
8. FEMS-ESCMID – Europe - Travel grant, 2013 (\$ 1,500);
9. Monash university – Australia - Travel grant, 2013 (\$ 1,500);
10. Int. Centre Gen. Eng. Biotech. (ICGEB) – Italy – Travel grant, 2006 (\$ 1,000);
11. Wellcome Trust Sanger Institute – UK - Travel grant, 2008 (\$ 850);

**Amount attracted so far: \$ 663,350**

## **RECENT PUBLICATIONS** (\* most relevant, last five years)

### **2016**

- Bhuiyan MS, Ellett F, Murray GL, Kostoulias X, **Cerqueira GM**, Schulze KE, Mahamad Maifiah MH, Li J, Creek DJ, Lieschke GJ, Peleg AY. *Acinetobacter baumannii* phenylacetic acid metabolism influences infection outcome through a direct effect on neutrophil chemotaxis. Proc Natl Acad Sci U S A. 2016 Aug 23;113(34):9599-604.

### **2016**

- Kostoulias X, Murray G, **Cerqueira GM**, Bantun F, Mylonakis E, Khoo CA, Peleg AY. The Impact of a Cross-Kingdom Signalling Molecule on *Acinetobacter baumannii* Viability. Antimicrob Agents Chemother. 2015 Oct 19;60(1):161-7.
- Dhabaan GN, AbuBakar S, **Cerqueira GM**, Al-Haroni M, Pang SP, Hassan H. Biological Advantage Contributes to Explain *Acinetobacter baumannii* Resistance to Imipenem. Antimicrob Agents Chemother. 2015 Dec 14;60(3):1370-6.

### **2014**

- \* **Cerqueira GM**, Kostoulias X, Aibinu I, Qu Y, Traven A, Peleg AY. A Global Virulence Regulator in *Acinetobacter baumannii* and its Control of the Phenylacetic Acid Catabolic Pathway. Journal of Infectious Diseases. 210(1):46-55, 2014 - Describes the systematic characterization of the role of the GacSA two-component system in the biology of *A. baumannii*, using targeted mutagenesis, transcriptional profiling, functional assays, and eukaryotic models. In addition, employing our RNA-seq data we identified an operon novel to *A. baumannii* (*paa* operon). The Paa pathway is responsible for the metabolism of aromatic compounds, and we confirmed through homologous recombination and other assays that PaaE is also critical for virulence. Now, we will further extend that study, and assess the use of *gacA*, *gacS*, *paaE* and other transcripts as targets for morpholino therapy (**IF 5.7**).

## 2013

- Abbott I, **Cerqueira GM**, Bhuiyan S, Peleg AY. Carbapenem resistance in *Acinetobacter baumannii*: laboratory challenges, mechanistic insights and therapeutic strategies. *Expert Review of Anti-Infective Therapy*. 11(4):395-409, 2013.

## 2012

- \* Peleg AY, de Breej A, Adams MD, **Cerqueira GM**, Mocali S, Galardini M, Nibbering PH, Earl AM, Ward DV, Paterson DL, Seifert H, Dijkshoorn L. The success of *Acinetobacter* species; genetic, metabolic and virulence attributes. *PLoS One* 7(10):e46984, 2012 - Further extends our understanding of why certain *Acinetobacter* species are more successful in causing nosocomial infections, transmission and epidemic spread in healthcare institutions. Using genomic, phenotypic and virulence assays we compared nine *Acinetobacter* species, and identified an accessory genome that contains important virulence factors (**IF 3.7, 20 citations**).

## 2011

- **Cerqueira GM**, Souza NM, Araújo ER, Barros AT, Morais ZM, Vasconcellos SA, Nascimento AL. Development of transcriptional fusions to assess *Leptospira interrogans* promoter activity. *PLoS One* 6(3):e17409, 2011.
- \* **Cerqueira GM**, Peleg AY. Insights into *Acinetobacter baumannii* pathogenicity. *IUBMB Life* 32(12):1055-60, 2011 - Review article discussing the *Acinetobacter baumannii* pathogenesis and the problem of antibiotic resistance, summarizing the main model systems used to study this intriguing organism, and its virulence factors (**IF 2.7, 23 citations**).
- \* Lourdault K, **Cerqueira GM**, Wunder EA, Picardeau M. Inactivation of *clpB* in the pathogen *Leptospira interrogans* reduces virulence and resistance to stress conditions. *Infection and Immunity* 79(9):3711, 2011 - Demonstration that the Gram-negative human pathogen, *Leptospira interrogans*, requires the ClpB chaperone for survival *in vivo* (**IF 4.1, 18 citations**).
- Hartwig DD, Seixas FK, **Cerqueira GM**, McBride AJ, Dellagostin OA. Characterization of the immunogenic and antigenic potential of putative lipoproteins from *Leptospira interrogans*. *Current Microbiology* 62(4): 1337-41, 2011.

## 2010

- **Cerqueira GM**, McBride AJA, Hartskeerl RA, Ahmed N, Dellagostin AO, Eslabao MR, Nascimento ALTO. Bioinformatics Identifies Novel Loci for High Resolution Discrimination of *Leptospira* Isolates. *Plos One* 5(10): e15335, 2010.
- Aviat F, Slamti L, **Cerqueira GM**, Lourdault K, Slamti L, Picardeau M. Expanding the genetic toolbox for *Leptospira* species by generation of fluorescent bacteria. *Applied and Environmental Microbiology* 76(24): 8135-8142, 2010.
- Eslabao MR, Dellagostin OA, **Cerqueira GM**. LepBank: a *Leptospira* sequence repository and a portal for phylogenetic studies. *Infection, Genetics and Evolution* 10(4):

586-590, 2010.

- **Cerqueira GM**, McBride AJA, Queiroz A, Pinto LS, Silva EF, Hartskeerl RA, Reis MG, Ko AI, Dellagostin OA. Monitoring *Leptospira* strain collections: the need for quality control. The American Journal of Tropical Medicine and Hygiene. 82(1): 83 - 87, 2010.
- Seixas FK, Borsuk S, Fagundes M, Hartwig DD, Silva EF, **Cerqueira GM**, Dellagostin OA. Stable expression of *Leptospira interrogans* antigens in auxotrophic *Mycobacterium bovis* BCG. Biological Research. 43(1): 13-18, 2010.
- Vaz BS, **Cerqueira GM**, Manzke VHB, Andre JS, Moreira CGA, Moreira HLM. Sequence analysis of the growth hormone gene of Jundiá (*Rhamdia quelen*). Genetics and Molecular Research 9(4):2184-90, 2010.
- Silva EF, Félix SR, **Cerqueira GM**, Fagundes MQ, Seixas ACP, Grassmann AA, Amaral MG, Corrêa TG, Dellagostin OA. Preliminary Characterization of *Mus Musculus*-derived Pathogenic Strains of *Leptospira borgpetersenii* serovar Ballum in a Hamster Model. American Journal Tropical Medicine Hygiene. 83(2): 336-337, 2010.

#### **2009**

- **Cerqueira GM**, Picardeau M. A century of *Leptospira* strain typing. Infection, Genetics and Evolution. 9(5): 760-768, 2009.
- **Cerqueira GM**, McBride AJA, Picardeau M, Ribeiro S, Moreira AN, Morel V, Reis MG, Ko AI, Dellagostin OA. Distribution of the Leptospiral immunoglobulin-like (*lig*) genes in pathogenic *Leptospira* spp. and application of *ligB* to typing leptospiral isolates. Journal of Medical Microbiology. 58(Pt 9): 1173-1181, 2009a.
- **Cerqueira GM**, Silva E, Seixas F, Athanzio D, Amaral M, Vasconcellos F, Hartwig D, Ribeiro S, Dellagostin OA. Use of naked DNA immunization for screening of leptospiral antigens as potential vaccinogens. International Journal of Antimicrobial Agents. 34: S78, 2009.
- McBride AJA, **Cerqueira GM**, Suchard M, Moreira AN, Zuerner RL, Reis MG, Haake DA, Ko AI, Dellagostin OA. Genetic diversity of the Leptospiral immunoglobulin-like (*Lig*) genes in pathogenic *Leptospira* spp. Infection, Genetics and Evolution. 9(2): 196-205, 2009.
- Silva EF, **Cerqueira GM**, Seyffert N, Seixas FK, Hartwig DD, Athanzio DA, Pinto LS, Queiroz A, Ko AI, Brod CS, Dellagostin AO. *Leptospira noguchii* causing human and animal leptospirosis in Southern Brazil. Emerging Infectious Diseases. 15(4): 621-622, 2009.
- Murray GL, Morel V, **Cerqueira GM**, Croda J, Srikram A, Henry R, Ko AI, Dellagostin OA, Bulach DM, Sermswan RW, Adler B, Picardeau M. Genome-Wide Transposon Mutagenesis in Pathogenic *Leptospira* Species. Infection and Immunity. 77(2): 810-816, 2009.
- Silva EF, Seyffert N, **Cerqueira GM**, Leihls K, Athanzio DA, Valente A, Dellagostin OA, Brod CS. Serum antileptospiral agglutinins in freshwater turtles from Southern Brazil. Brazilian Journal of Microbiology. v.40, p.227 - 230, 2009.

- Luerce TD, Galli V, Simionatto S, **Cerqueira GM**, Dellagostin OA. An Improved Method for the Characterization of Swine Stress Gene by PCR-REA Method. *Ciência Rural*. v.39, p.1577 - 1580, 2009.

- **Cerqueira GM**; Silva EF; Athanzio DA; Felix S; Seixas FK; Amaral M; Vasconcellos F; Hartwig D; Ribeiro S; Dellagostin OA. Comparison between subunit and DNA vaccine as a method to identify *L. interrogans* immunoprotective antigens. *Journal of the Brazilian Society of Tropical Medicine*, 2009. v42, p. 217-217.

## **2008**

- Silva EF, Santos CS, Athanzio DA, Seyffert N, Seixas FK, **Cerqueira GM**, Fagundes M, Brod CS, Reis MG, Dellagostin OA, Ko AI. Characterization of Virulence of *Leptospira* Isolates in a Hamster Model. *Vaccine (Guildford)*. 26(31): 3892-3896, 2008.

## **2007**

- Seixas FK, Silva EF, Hartwig DD, **Cerqueira GM**, Amaral M, Quevedo M, Dossa RG, Dellagostin AO. Recombinant *Mycobacterium bovis* BCG expressing the LipL32 antigen of *Leptospira interrogans* protects hamsters from challenge.. *Vaccine (Guildford)*. 26(1): 88-95, 2007.

- Silva EF; Brod CS; **Cerqueira GM**; Bourscheidt D; Seyffert N; Queiroz A; Santos CS; Ko AI; Dellagostin OA. Isolation of *Leptospira noguchii* from sheep. *Veterinary Microbiology*. 121(1-2): 144-149. 2007.

- Mendonca M, Conceição FR, **Cerqueira GM**, Dellagostin OA, Moreira AN, Aleixo JAG, Silva WP. Expression of the Outer Membrane Protein InlA from *Listeria monocytogenes* Aiming Production of Monoclonal Antibodies. *Higiene Alimentar*. v.21, p.209 - 210, 2007.

## **2003**

- Conceição FR; Michelon A; Michelon M; **Cerqueira GM**; Dellagostin, OA. LTB-R1: an alternative to swine mycoplasmal pneumoniae control. *Brazilian Journal of Microbiology*. 34(s1): 79-81, 2003.

- Michelon A; Michelon M; Simionatto S; Lagranha VL; Conceição FR; Vaz EK; **Cerqueira GM**; Dellagostin OA. Effect of the Kozak sequence on seroconversion of mice immunized with a DNA vaccine against swine colibacillosis. *Brazilian Journal of Microbiology*. 34(s1): 85-87, 2003.

- Bastos RG; **Cerqueira GM**; Dellagostin OA; Flores EF; Weiblen R. Cloning and expression of the Bovine Viral Diarrhea Virus (BVDV) gene encoding the non-structural polypeptide NS3/P80. *Virus Reviews and Research*. 8(s1): 179, 2003.

## **BOOK CHAPTERS**

- Atzingen MV, **Cerqueira GM**, Vieira ML, Oliveira R, Oliveira TR, Domingos RF, Barros AT, Mendes RS, Nascimento ALTO. Identification and Characterization of Novel Adhesins in *Leptospira*. A. Méndez-Vilas. (Org.). Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology. 2 ed. Badajoz: Microbiology Book Series, 2010, v. 1.
- Govan B, **Cerqueira GM**. Microbiology & Immunology Study Guide & Practical Manual 2015. James Cook University, 2015, 156 pages.

## **MANUSCRIPTS IN PREPARATION**

- Aibinu IE, **Cerqueira GM**, Adams M, Peleg AY. The accessory genome of *A. baumannii* Community-acquired Strains Respond for Differences *in vivo* and *in vitro*. (To be submitted to Journal of Infectious Diseases, 2015).

## **TECHNICAL WORK**

- **Development of a sequence repository and taxonomic platform** – Eslabao MR; **Cerqueira GM**; Dellagostin OA. Lepbank ([www.lepbank.ufpel.edu.br](http://www.lepbank.ufpel.edu.br)). 2010.
- **GenBank deposit** – Silva EF; **Cerqueira GM et al.**, *L. noguchii rpoB* and *16S* genes - EU349497 to EU349505. 2008.
- **GenBank deposit** – Fernandes CH; Recuero R; Recuero AL; Seixas FK; **Cerqueira GM et al.**, *L. interrogans* serogroup Icterohaemorrhagiae strain CCZ45 *16S* genes - EU581713. 2008.
- **GenBank deposit** – McBride AJA; **Cerqueira GM et al.**, *Leptospira* spp. *ligA*, *ligB*, *ligC* genes - EU700267 to EU700275. 2008.
- **GenBank deposit** – **Cerqueira GM et al.**, *Leptospira* spp. *ligA*, *ligB*, *ligC* taxonomic markers - EU938447 to EU938521. 2008.
- **GenBank deposit** – Araujo M; Cerqueira GM *et al.*, *L. monocytogenes actA* gene - FJ150971 to FJ151010. 2008.
- **GenBank deposit** – **Cerqueira GM et al.**, *Leptospira* spp. *16S* gene - FJ154542 to FJ154600. 2008.
- **GenBank deposit** – Fernandes CH; Recuero R; Recuero AL; Seixas FK; **Cerqueira GM et al.**, *L. borgpetersenii* serogroup Ballum strain CAU42 *16S* gene - EF467916. 2007.
- **GenBank deposit** – **Cerqueira GM et al.**, *Leptospira* spp. *lig*-VNTR sequences - EF512683 to EF512707. 2007.



- **GenBank deposit** – Silva E; **Cerqueira GM** *et al.*, *L. noguchii* Serogroup Autumnalis Strain Caco 16S gene - DQ848350. 2006.
- **GenBank deposit** – Vaz BS; Cerqueira GM *et al.*, *Rhamdia quelen* GH gene (Growth hormone)- EF101341. 2006.
- **Pasteur Institute strain collection** – **Cerqueira GM** *et al.*, *L. noguchii* serogroups Autumnalis and Bataviae. 2008.

### INVITED TALKS

- **Event with partners and investors:** Nanjing University of Technology, Nanjing, China (2016).
- **Guest speaker:** Deciphering the *Acinetobacter baumannii* infection biology. Centre for Biomolecular Discovery of Therapeutics, Cairns, Australia (2015).
- **Guest speaker:** Deciphering the multigene virulence of *Acinetobacter baumannii*. James Cook University, Townsville, Australia (2014).
- **Guest speaker:** Deciphering the *Acinetobacter baumannii* biology. Monash University, Melbourne, Australia (2012).
- **Short-course:** Molecular Markers. Federal University of Pelotas, Brazil (2005).
- **Guest speaker:** Characterization of *L. interrogans* vaccine and diagnostic candidates. Oswaldo Cruz Foundation, Salvador, Brazil (2004).
- **Guest speaker:** 1<sup>st</sup> Workshop on Biomolecular Sciences of MERCOSUL. Catholic University of Pelotas, Pelotas, Brazil (2006).

### ORAL AND POSTER PRESENTATIONS IN CONFERENCES

- **Cerqueira GM**, Kostoulias X, Aibinu I, Que Y, Traven A, Peleg AY. Conservation of an *Acinetobacter baumannii* Virulence Mechanism Across Eukaryotic Species: a GacSA Two-Component System. International Symposium on the Biology of *Acinetobacter* 2013. Cologne, Germany. (Oral)
- **Cerqueira GM**, Barros AT, Araújo ER, Nascimento ALTO. Development of a methodology to identify potential virulence factors of *Leptospira interrogans*. Gordon Research Conference, Biology of Spirochetes 2010. Ventura, USA. (Oral)
- Slamti L, Aviat F, **Cerqueira GM**, Lourdault K, Picardeau M. Expanding the genetic toolbox of leptospires: Generation of fluorescent bacteria. 6<sup>th</sup> Meeting of the International Leptospirosis Society, LEPTOCON, 2009, Kerala, India. (Poster)
- **Cerqueira GM**, Silva E, Seixas F, Athanzio D, Amaral M, Vasconcellos F, Hartwig D, Ribeiro S, Dellagostin OA. Use of naked DNA immunization for screening of leptospiral antigens as potential vaccinogens. 26<sup>th</sup> International Congress of Chemotherapy and Infection, 2009, Toronto, Canada. (Oral)

- **Cerqueira GM**, Silva EF, Athanazio DA, Felix S, Seixas FK, Amaral M, Vasconcellos F, Hartwig DD, Ribeiro S, Dellagostin AO. Comparison between subunit and DNA vaccines for the screening of *Leptospira interrogans* antigens as potential vaccinogens. 45<sup>th</sup> Congress of the Brazilian Congress of Tropical Medicine, 2009, Recife, Brazil. (Oral)
- Eslabao MR; Dellagostin OA; **Cerqueira GM**. LEPBANK: a sequence repository with taxonomic value. 25<sup>th</sup> Brazilian Congress of Microbiology, 2009, Porto de Galinhas, Brazil. (Poster)
- Seixas FK, Silva EF, Hartwig DD, **Cerqueira GM**, Amaral M, Quevedo M, Dellagostin OA. Recombinant BCG expressing LipL32 of *Leptospira interrogans* protects hamsters from challenge. 5<sup>th</sup> Meeting of the International Leptospirosis Society, 2007, Quito, Equator. (Poster)
- McBride AJA, **Cerqueira GM**, Medeiros MA, Zuerner R, Reis MG, Haake D, Ko AI, Dellagostin OA. Sequence conservation of the Leptospiral immunoglobulin-like (*lig*) genes among pathogenic *Leptospira* spp. Gordon Research Conference, Biology of Spirochetes, 2006, II Ciocco/Braga, Italy. (Poster)
- **Cerqueira GM**; McBride AJA; Ko AI; PintoLS; Dellagostin OA. Characterization of gene deletion in *Leptospira interrogans*. 23<sup>rd</sup> Brazilian congress of Microbiology, 2005, Santos, Brazil. (Poster)
- Hartwig DD; Seixas FK; **Cerqueira GM**; McBride AJA; Dellagostin OA. Characterization of *L. interrogans* candidates to subunit vaccines. 23<sup>rd</sup> Brazilian Congress of Microbiology, 2005, Santos, Brazil. (Poster)
- Conceição FR, Michelon A, Michelon M, **Cerqueira GM**, Dellagostin OA. LTB-R1: an alternative to swine mycoplasmal pneumoniae control. 104<sup>th</sup> General Meeting of American Society for Microbiology, 2004, New Orleans, USA. (Poster)
- Conceição FR, Michelon A, Michelon M, **Cerqueira GM**, Dellagostin OA. LTB-R1: an alternative to swine mycoplasmal pneumoniae control. 22<sup>nd</sup> Brazilian Congress of Microbiology, 2003, Florianópolis, Brazil. (Oral)
- Argondizzo AP; Michelon A; **Cerqueira GM**; Binsfeld PC; Cunha CW; Dellagostin OA. Development of a recombinant vaccine against *Anaplasma marginale* employing *Mycobacterium bovis* BCG as a vector. 11<sup>th</sup> Brazilian Congress of Cell Biology, 2002, Porto Alegre, Brazil. (Poster)

## **TEACHING EXPERIENCE**

- 2014 – 2016 Clinical Microbiology – James Cook University, Australia
- 2014 – 2016 Immunology – James Cook University, Australia
- 2013 – 2014 Bacterial pathogenesis – Monash University, Australia
- 2006 – 2009 Bioinformatics (coordinator) – Federal university of Pelotas, Brazil
- 2006 – 2009 Bioinformatics (Post-grad.) – Federal university of Pelotas, Brazil
- 2006 – 2009 Techniques of Mol. Biol. (Post-grad.) – Federal university of Pelotas, Brazil

## **SUPERVISION OF STUDENTS**

- Nizar Saeedi. **Use of a *C. elegans* worm model to identify *Acinetobacter baumannii* virulence factors toward *Candida albicans*.** 2013. Masters student (Faculty of Medicine, Nursing and Health Sciences – Monash University, Australia – Co-supervisor.
- Ibukun Aibinu. **Genome sequencing and comparison of virulence traits between hospital- and community-acquired *Acinetobacter baumannii*.** 2011-12. Research assistant (Faculty of Medicine, Nursing and Health Sciences – Monash University, Australia – Co-supervisor.
- Natalie M. Souza. **Immunological Characterization of Recombinant Lipoproteins of *Leptospira* antigens.** 2009. Undergraduate student (Biomedical sciences) – Instituto Butantan, Brazil – Co-supervisor.
- Eduardo R. Araújo. **Cloning and Expression of *Leptospira* antigens.** 2009. Undergraduate student (Biomedical sciences) – Instituto Butantan, Brazil – Co-supervisor.
- Aline T. Barros. **Cloning and expression of *Leptospira* antigens.** 2009. Technician – Instituto Butantan, Brazil – Co-supervisor.
- Marcus R. Eslabao. **Construction of a Databank Using Sequences of *Leptospira* with Taxonomic Value.** 2009. Undergraduate (Biological sciences) - Universidade Federal de Pelotas, Brazil – Supervisor.
- Samuel Gonçalves Ribeiro. **Cloning and expression of *Leptospira* antigens.** 2006. Undergraduate student (Biological sciences) - Universidade Federal de Pelotas, Brazil – Supervisor.
- Andrés González Rodrigues. **Training in Molecular Biology.** 2004. International training - Oswaldo Cruz Foundation, Brazil – Supervisor.

## **AWARDS AND TITLES**

- Carl Storm International Diversity Fellowship, Gordon Research Conferences Board of Trustees, 2010.
- John David Williams Memorial Award, International Society of Chemotherapy, 2009.
- Scientific merit award. Brazilian Society of Microbiology. 2003.
- Youth leadership award. Rotary international. 1998.

## **COMPUTER SKILLS**

- DNA and Protein analysis software, Geneious (Biomatters) and Vector NTI Pack (Invitrogen);
- Phylogenetic analysis – Mega 6.0

- Artemis and ACT (Sanger Institute);
- Bioinformatic Tools for Genomics and Proteomics (LNCC/Brazil).
- Bioinformatic Tools for Comparative Microbial Genomics and Taxonomy (ICGEB/Italy and LNCC/Brazil).
- Microsoft Office package 2013.

## **LANGUAGE SKILLS**

- Portuguese (mother tongue)
- English (first foreign language)
- French (Advanced reading good listening and speaking)
- Spanish (Advanced listening and reading and average speaking)

## **OTHER SCIENTIFIC CONTRIBUTIONS**

### **Reviewer for scientific journals**

- Vaccine (Guildford), 3.48
- BMC Genomics, 4.04
- PloS One, 3.53
- BMC Microbiology (Online), 2.98
- Journal of Medical Microbiology, 2.26
- Infection, Genetics and Evolution (Print), 3.26
- Transactions of the Royal Society of Tropical Medicine and Hygiene, 1.93
- Acta Tropica, 2.51
- Diagnostic Microbiology and Infectious Disease, 2.56
- Zoonoses and Public Health, 2.06
- Memories of the Oswaldo Cruz Institute (Online), 2.00
- Journal of Global Infectious Diseases
- African Journal of Biotechnology
- African Journal of Microbiology Research

### **Member of Scientific Advisory Board**

- Brazilian National Council for Research and Development, Brazil
- Foundation for Research Support from the Sao Paulo State, Brazil
- Centre for Elaboration of Strategic Studies, Brazil
- Romanian National Council of Scientific Research, Romania
- Kazakhstan Council of Scientific Research, Romania
- Research Assistant Selection Committee - Monash University, 2011.