

René



Warren

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20+ yrs experience in biotechnology, genomics, informatics

Developed the first *de novo* genome assembly software (SSAKE) with short DNA sequences
Discovered *Fusobacterium* in colon cancer, one of *Time Magazine's* 2011 top ten breakthrough
Coordinated bioinformatics analyses of *Rhodococcus*, *Cryptococcus*, Bullfrog, Spruce genomes

I am seeking new challenges & additional leadership

PROFESSIONAL EXPERIENCE

2017 – now

Group Leader

BC Cancer Agency – Genome Sciences Centre, Vancouver

- Lead group, provide project management, expertise, guidance
- Conceptualize / lead the development of genome analysis technologies
- Interview, supervise, mentor COOP students and staff

2002 – 17

Coordinator

BC Cancer Agency – Genome Sciences Centre, Vancouver

- Lead bioinformatics R&D (Python, PERL, R, MySQL, HTML/CSS/js, unix/mac/win)
Technologies dev.: *SAM, SSAKE, TASR, HLAminer, LINKS, xmatchview, PASS, RAILS, ARCS*
- Published research (scientific journals, international conferences)
- Interviewed, taught, trained, supervised biologists and programmers

2000 – 01

Officer

NRC – CNRC – Biotechnology Research Institute, Montréal

- Engineered gene expression regulation technology (molec/cell biology)
- Designed, fabricated, tested components of DNA “gene switch”
- Collaborated with stakeholders, chemists, molecular and cell biologists

EDUCATION

- 2000 – 01 **Certificate Computer Science** | Concordia University
- 1997 – 99 **MSc Biochemistry & Molecular Biology** | UBC
- 1994 – 97 **BSc Biochemistry** *Dean's Honours List* | Université de Montréal

ADDITIONAL INFORMATION

- 2015, 16 Awarded the *John Jambor Knowledge Fund* for presenting at conferences
- 2011 Interviewed by *NTN24* channel for *Fusobacterium* discovery colon cancer
- 2009 Interviewed by *Genome Technology* to discuss next-generation sequencing
- 2007 Interviewed by *GenomeWeb* for the development of *SSAKE*
- 1998 Awarded the UBC Graduate Fellowship for MSc studies
- 1997 Awarded *Fonds de la Recherche en Santé Québec* (FRSQ) for BSc studies
- 1996 Awarded Bursary from FRSQ for BSc honour's research project
- 1995 Worked at NASA to coordinate the crystallization of proteins under microgravity : CMIX-4 payload, space shuttle *Endeavour*

PRESENTATIONS

Selected from 16 lead author

- 2017, 18 Research in Computational Molecular Biology, Hong Kong / Paris **talks**
- 2015, 16 Intelligent Systems for Molecular Biology, Dublin UK / Orlando USA **talks**
- 2008, 12, 15 Pacific Symposium on Biocomputing, Kona, Hawaii USA **posters**
- 2010 Sequencing, Finishing and Analysis in the Future, Santa Fe USA **talk**
- 2007 Synthetic Biology 3.0 conference, Zürich, Switzerland **talk**

PUBLICATIONS

Selected from 58 peer-reviewed [22 lead author]

- Warren RL.** 2018. Visualizing genome synteny with xmatchview. *J. Open Source Software*. 3:497
- Warren RL, et al.** 2015. LINKS: Scalable, alignment-free scaffolding of draft genomes with long reads. *GigaScience* 4:35
- Warren RL, et al.** 2012. Derivation of HLA types from shotgun sequence datasets. *Genome Med*. 4:95
- Castellarin M*, **Warren RL***, et al. 2012. *Fusobacterium nucleatum* infection is prevalent in human colorectal carcinoma. *Genome Research*. 22:299-306 *co-first authors
- Warren RL, et al.** 2007. Assembling millions of short DNA sequences using SSAKE. *Bioinfo*. 23:500

REFERENCES

Available upon request