

René



Warren

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<http://renewarren.ca>

20+ years 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

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 (molecular / 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 (<i>Dean's Honours List</i>)	Université de Montréal

ACCOLADES

2015, 16	Awarded the <i>John Jambor Knowledge Fund</i> for presenting at conferences
2011	Interviewed by <i>NTN24</i> channel for <i>Fusobacterium</i> discovery colon cancer
2009	Interviewed by <i>Genome Technology</i> to discuss next-generation sequencing
2007	Interviewed by <i>GenomeWeb</i> for the development of <i>SSAKE</i>
1998	Awarded the UBC Graduate Fellowship for MSc studies
1997	Awarded <i>Fonds de la Recherche en Santé Québec</i> (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 <i>Endeavour</i>

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], *co-first authors*

- Warren RL.** 2018. Visualizing genome synteny with xmatchview. *J. Open Source Software*. 3:497
- Warren RL, et al.** 2015. LINKS: Scalable scaffolding of 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* in colorectal carcinoma. *Genome Res.* 22:299
- Warren RL, et al.** 2007. Assembling millions of short DNA sequences using SSAKE. *Bioinfo.* 23:500

REFERENCES

Available upon request