René  Warren

warrenlr@gmail.com 778 . 386 . 4192 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 *Rhodococus*, *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 *(Dean's Honours List)*	**Université de Montréal**

ACCOLADES

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], *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