René Louis Warren

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Scientist with 20+ yrs experience in biotechnology, genomics, informatics who:

Developed the first software for *de novo* genome assembly with emerging short DNA sequences

Discovered *Fusobacterium* in colon cancer, one of *Time Magazine*'s 2011 top ten breakthrough

Coordinated the bioinformatics analysis of Rhodococus, 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 development of genome analysis technologies
- Interview, supervise, mentor COOP students and staff

2002 – 17

Coordinator

BC Cancer Agency – Genome Sciences Centre, Vancouver

- Lead bioinformatics software R&D (Python, PERL, R, unix)
- 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	Recipient of the *John Jambor Knowledge Fund* travel award
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	UBC Graduate Fellowship awarded for MSc
1997	*Fonds de la Recherche en Santé Québec* (FRSQ) awarded for BSc
1996	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)

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 *co-first authors)

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

Warren RL, *et al.* 2007. Assembling millions of short DNA sequences using SSAKE. *Bioinfo.* 23:500

REFERENCES

Available upon request