

René L Warren

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I am a scientist with 20+ years experience in biotechnology, genomics, bioinformatics

Played key role in bioinformatics analysis of *Rhodococus*, *Cryptococcus*, Bullfrog, Spruce genomes

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

seeking new challenges and additional leadership

PROFESSIONAL EXPERIENCE

2017 – now

Group Leader

BC Cancer Agency – Genome Sciences Centre, Vancouver

- Provide group and projects leadership, expertise, guidance
- Interview, supervise, mentor COOP students and staff
- Conceptualize / led development of genome analysis technologies
- Write research proposals and scientific articles

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)
- Supervised biologists and programmers
- Interviewed job candidates, taught and trained employees

2000 - 01

Officer

NRC - CNRC - Biotechnology Research Institute, Montréal

- Engineered gene expression regulation technology (molec/cell biology)
- Designed, fabricated, tested components of the 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
2015, 16 2011 2009 2007 1998 1997 1996 1995	ADDITIONAL INFORMATION Recipient of the John Jambor Knowledge Fund travel award Interviewed by NTN24 channel for Fusobacterium discovery colon cancer Interviewed by Genome Technology to discuss next-generation sequencing Interviewed by GenomeWeb for the development of SSAKE UBC Graduate Fellowship awarded for MSc Fonds de la Recherche en Santé Québec (FRSQ) awarded for BSc Bursary from FRSQ for BSc honour's research project 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		
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 *co-first authors)

Warren RL. (2018) Visualizing genome synteny with xmatchview. Journal of 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. Bioinformatics.

E Allen-Vercoe, R Holt, R Moore, R Warren. Detection of fusobacterium in a gastrointestinal sample to diagnose gastrointestinal cancer. US Patent App. 13/877,421 / WO Patent 2,012,045,150

REFERENCES

Available upon request