



Curriculum Vitae

Robert Jones

Qualifications

BA	Oxford University, UK	1980
DPhil	Sussex University, UK	1985

Education and Employment

November 1997 – present

Founder and President of Craic Computing LLC, Seattle, WA, - a bioinformatics consulting company that provides custom software, databases and advanced data analysis services to biotechnology companies.

Past and present projects have involved work in the following areas:

- Microarray analysis of gene expression in various types of cancer.
- Management of DNA sequences generated in a company sequencing facility.
- Data management across multiple, related gene discovery projects.
- Assembly and analysis of entire genome sequence of a prokaryote (*Propionibacterium acnes*).
- Data management for corporate invention disclosures and patent applications.
- Identification of bacteria isolated from patients with Inflammatory Bowel Disease using 16S rRNA.
- Discovery of candidate SNPs from published EST sequences.
- Identification of SNPs using mass spectrometry and a novel amplification technology.
- Data management for a public health study of unexplained diarrhea in children in Washington state.
- Software for managing chemical inventory within biotechnology companies.
- Software for detecting sequences of hazardous biological agents submitted to DNA synthesis companies.

June 1994 – October 1997

Director of Computing at Darwin Molecular Corporation, Bothell, WA. Established and directed the ten person Computing Group, with responsibility for all aspects of computing systems support, computational biology and software development within the company. Closely involved in the sequence analysis of the Alzheimer's and Werner's Syndrome gene discoveries at the company.

November 1988 - May 1994

Scientist with Mathematical Sciences Research Group of Thinking Machines Corporation, Cambridge, MA, USA. Developed novel applications in computational biology that made use of massively parallel computers.

May 1987 - October 1988

Research Associate with Prof. Michael Waterman, Depts. of Mathematics and Molecular Biology, University of Southern California, Los Angeles. Developed computer methods for identifying conserved sequence domains in proteins.

January 1985 - April 1987

Postdoctoral Research Associate with Prof. Robert Haselkorn, Dept. of Molecular Genetics and Cell Biology, University of Chicago. Studied the regulation of nitrogen metabolism in the bacterium *Rhodobacter capsulatus*.

October 1981 - December 1984

Postgraduate research assistant with Dr. Rob Robson, Agricultural Research Council Unit of Nitrogen Fixation, University of Sussex, Brighton, UK. Doctor of Philosophy degree awarded in January 1985 for research in the molecular biology of nitrogen fixation in the bacterium *Azotobacter chroococcum*.

September 1980 - September 1981

Volunteer Youth Worker, Glebe House Children's Center, Strangford, Northern Ireland.

October 1976 - July 1980

Undergraduate, Pembroke College, Oxford University. BA in Biochemistry.

Publications

Errors in patent application sequence listings

R Jones Nature Biotechnology (2003) 21: 1239-1240 [Not peer reviewed]

On the Application of the Minimal Principle to Solve Unknown Structures

R Miller, GTDeTitta, **R Jones**, DA Langs, CM Weeks and HA Hauptman (1993). Science 259:1430-1433

Solving the Phase Problem of X-Ray Crystallography on Parallel Machines.

CS Chang, GT DeTitta, HA Hauptman, **R Jones**, R Miller, P Thuman and C Weeks.

In: The Sixth SIAM Conference on Parallel Processing for Scientific Computing (1993)

vol. I, pp.304-307, SIAM Press, Philadelphia

The *nifH* gene encoding the Fe protein component of the molybdenum nitrogenase from *Azotobacter chroococcum*

R Jones, P Woodley, A Birkmann-Zinoni and RL Robson. Gene (1993) 123: 145-146

Protein Sequence and Structure Comparison on Massively Parallel Computers

R Jones, Intl. Journal of Supercomputer Applications (1992) 6: 138-146

Sequence Pattern Matching on a Massively Parallel Computer

R Jones, Computer Applications in the Biological Sciences (1992) 8: 377-383

Alerting users to relevant new entries in the GenBank DNA sequence database

R Jones, Computer Applications in the Biological Sciences (1992) 8: 199

Nucleotide sequence and genetic analysis of the *nifU*, *nifS*, *nifV*, *nifW*, *nifZ*, *nifM* gene cluster in *Azotobacter chroococcum* including a new gene (*nifP*) which encodes a serine acetyl transferase.

DJ Evans, **R Jones**, PR Woodley, RJ Wilborn and RL Robson. J.Bacteriol. (1991) 173

Protein Sequence Comparison on the Connection Machine CM-2: A Collection of Results.

R Jones, Thinking Machines Corporation Technical Report CB90-3 (1990) [Not peer reviewed]

Consensus Methods for DNA and Protein Sequence Alignment

MS Waterman and **R Jones**. In: Methods in Enzymology, vol.183, pp. 221-237, Ed. R.Doolittle, Academic Press, 1990

The DNA sequence of the *Rhodobacter capsulatus* *ntxA*, *ntxB* and *ntxC* gene analogues required for nitrogen fixation.

R Jones and R Haselkorn. Mol.Gen.Genet. (1989) 215: 507-516

Protein Sequence Comparison on the Connection Machine CM-2

R Jones, W Taylor IV, X Zhang, JP Mesirov and E Lander

In: Computers and DNA, SFI Studies in the Sciences of Complexity, vol.VII

Eds. G.Bell and T.Marr, Addison-Wesley Longman, 1989

Patent Applications

WIPO Pub Number: WO 01/92581

US Patent Application: 20020132237

Compositions and methods for the therapy and diagnosis of ovarian cancer

PA Algate, **R Jones** and SL Harlocker

Compositions and methods for the therapy and diagnosis of cancer, particularly ovarian cancer, are disclosed. Illustrative compositions comprise one or more ovarian tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly ovarian cancer.

WIPO Pub Number: WO 03/033515

Compositions and methods for the therapy and diagnosis of acne vulgaris

JL Mitcham, YAW Skeiky, DH Persing, A Bhatia, J-FL Maisonneuve, Y Zhang, S Wang, S Jen, MJ Lodes, DR Benson, **R Jones**, D Carter, B Barth, J Vallieve-Douglas

Compositions and methods for the therapy and diagnosis of acne vulgaris and other related conditions are disclosed. Compositions may comprise one or more *Propionibacterium acnes* proteins, immunogenic portions thereof, or polynucleotides that encode such portions. Alternatively, a therapeutic composition may comprise an antibody that binds a *Propionibacterium acnes* protein, antigen presenting cell that expresses a *Propionibacterium acnes* protein, or a T cell that is specific for cells expressing such a protein. Such compositions may be used, for example, for the prevention and/or treatment of acne.