

Mark Smith

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PERSONAL STATEMENT

I am passionate about medical / biomedical research and have over thirty years of professional experience in research and research management (all aspects of research grants, grant management, laboratory facilities management and gene technology compliance). My background in the health and university sectors has given me a strong understanding and appreciation of research policy and practice, researchers requirements and the challenges of working in highly regulated environments.

EMPLOYMENT HISTORY

November 2021 – Present

Director and Research Consultant | Eriter Consulting, NSW

- Scientific / Medical writing
- Research Grant writing, editing & education
- Gene Technology compliance
- Laboratory design

Recent Contracts:

Medical Writer for Grand Pacific CRO February 2022 to present

Research education and training for NSW Health Pathology (April 2022), NSW Cancer Institute (June 2022), Sydney University (July 2022), Mid North Coast Local Health District (October 2022).

February 2012 – September 2021

Research Development Manager | Western Sydney Local Health District, Westmead NSW

- Responsible for all aspects of grant management (internal & external)
- Managed all aspects of Gene Technology compliance and reporting
- Oversight of laboratory research support
- Member of several high level research policy and compliance committees

January 1997 – January 2012

Operations/Facility Manager | Westmead Millennium Institute, Westmead NSW

Team member establishing the Westmead Millennium Institute (now Westmead Institute for Medical Research) including the design and fit out.

- Responsible for the maintenance an efficient operating environment of building and biomedical research laboratories (PC2 & PC3)
- Managed facility maintenance budget approx. \$250,000 pa
- Research grant management
- Gene Technology compliance and reporting

January 1982 – January 1997

Research Assistant/Senior Research Assistant | University of Sydney, Sydney NSW

- Molecular biology research into DNA replication in bacteria.
- Published more than 15 peer reviewed research articles in high ranking international journals.
- Managed the day to day operations of the laboratory with up to a dozen staff and students.

EDUCATION

1978 – 1981

Sydney University | Sydney NSW

Bachelor of Science with Honours [Class 2, Division 1]. *Biochemistry*

2014

New South Wales Department of Health (Registered Training Organisation) | Sydney, NSW

Diploma of Management

PROFESSIONAL DEVELOPMENT

- *Good Clinical Practice, NIDA Clinical Trials Network, June 2022.*
- *Investigator Site Personnel ICH GCP Training, TransCelerate, January 2022.*
- *HPRM Power User training, 2016.*
- *Good Clinical Practice training, 2012.*
- *Wonderware InTouch 7.1 Abridged Basic Course, 2001, METQUIP SYSTEMS, Sydney.*
- *Microsoft Access 97 End Users Course, 1999, Pollack Partners, Paramatta.*
- *Introduction to Hazardous Substances Management for Managers and Supervisors, 1999, WSAHS.*
- *Human Resources Information System Time & Attendance Training, 1998, WSAHS.*
- *Staff Selection Procedures, 1998, WSAHS.*
- *Facilitating Better Meetings, 1997, Western Sydney Area Health Service (WSAHS).*
- *ANGIS Course (Bioinformatics), Australian National Genomic Information Service, University of Sydney (1994).*
- *Introduction to Computing with Macintosh computers course, University of Sydney Computing Service (1988).*
- *DOS Service Course, University of Sydney Computing Service (1987).*
- *Introduction to MS-DOS on the IBM PC course, University of Sydney Computing Service (1986).*

ADDITIONAL SKILLS

- **Software:** Proficient in the use of Microsoft Windows and Microsoft Office products. Website design and editing using WordPress and HTML. Some Linux experience.
- **Designing, construction and operation of Laboratory facilities:** experience in the design of two Biomedical research buildings on the Westmead campus encompassing OGTR certified PC2 and PC3 facilities. Operations and facility experience in running and maintaining laboratory facilities.
- **Management and Administration:** two decades of experience in management and financial control of budgets up to \$1m.
- **Teaching, Tutoring and Presenting:** provision of classroom style and one-to one Biosafety training to hundreds of staff and student. Training provided in the sourcing and writing of research grants.

PUBLICATIONS

Refereed Papers

1. A.S. Weiss, M.T. Smith, T.P. Iismaa and R.G. Wake (1983) Cloning DNA from the replication terminus region of the *Bacillus subtilis* chromosome. *Gene* **24**:83-91.

2. T.P. Iismaa, M.T. Smith and R.G. Wake (1984) Physical map of the *Bacillus subtilis* replication terminus region: its confirmation, extension and genetic orientation. *Gene* **32**:171-180
3. M.T. Smith, C.A. Aynsley and R.G. Wake (1985) Cloning and localisation of the *Bacillus subtilis* chromosome replication terminus, *terC*. *Gene* **38**:9-17.
4. C.M. Carrigan, J.A. Haarsma, M.T. Smith and R. G. Wake (1987) Sequence features of the replication terminus of the *Bacillus subtilis* chromosome. *Nucl. Acids Res.* **15**:8501-8509.
5. C.L. Hunt, V. Colless, M.T. Smith, D.O. Molasky, M.S. Malo and R. E. Loughlin (1987) Lambda transducing phage and clones carrying the *cysJIHDC* gene cluster of *Escherichia coli* K12. *J. Gen. Microbiol.* **133**:2707-2717.
6. M.T. Smith and R.G. Wake (1988) DNA sequence requirements for replication fork arrest at *terC* in *Bacillus subtilis*. *J. Bacteriol.* **170**:4083-4090.
7. P. J. Lewis, M.T. Smith and R. G. Wake (1989) A protein involved in termination of chromosome replication in *Bacillus subtilis* binds specifically to the *terC* site. *J. Bacteriol.* **171**:3564-3567.
8. M.T. Smith and R. G. Wake (1989) Expression of the *rtp* gene of *Bacillus subtilis* is required for replication fork arrest at the chromosome terminus. *Gene* **85**:187-192.
9. C. M. Carrigan, R.A. Pack, M.T. Smith and R.G. Wake (1991) Normal *terC*-region of the *Bacillus subtilis* chromosome acts in a polar manner to arrest the clockwise replication fork. *J. Mol. Biol.* **222**:197-207.
10. M.T. Smith and R.G. Wake (1992) Definition and polarity of action of DNA replication terminators in *Bacillus subtilis*. *J. Mol. Biol.* **227**:648-657.
11. K.S. Ahn, M.S. Malo, M.T. Smith and R.G. Wake (1993) Autoregulation of the gene encoding the replication terminator protein of *Bacillus subtilis*. *Gene* **132**:7-13.
12. D.B. Langley, M.T. Smith, P.J. Lewis and R.G. Wake (1993) Protein-nucleoside contacts in the interaction between the replication terminator protein of *Bacillus subtilis* and the DNA terminator. *Mol. Microbiol.* **10**:771-779.
13. M.T. Smith, D.B. Langley, P.A. Young, and R.G. Wake (1994). The minimal sequence needed to define a functional DNA terminator in *Bacillus subtilis*. *J. Mol. Biol.* **241**: 335-340.
14. W.J.J. Meijer, M.T. Smith, R.G. Wake, A.L. De Boer, G. Venema and S. Bron (1996). Identification and characterisation of a novel type of replication terminator with bidirectional activity on the *Bacillus subtilis* theta plasmid pLS20. *Mol. Microbiol.* **19**: 1295-1306.
15. M.T. Smith, C.J. De Vries, D.B. Langley, G. F. King. and R.G. Wake (1996). The *Bacillus subtilis* DNA replication terminator. *J. Mol. Biol.* **260**: 54-69.
16. I.G. Duggan, P.A. Andersen, M.T. Smith, J.A. Wilce, G.F. King and R.G. Wake (1999). Site-directed mutants of RTP of *Bacillus subtilis* and the mechanism of replication fork arrest. *J. Mol. Biol.* **286**:1325-1335.

Conference Abstracts (* Denotes oral presentation.)

1. A.S. Weiss, A.P. Healy, M.T. Smith and R.G. Wake (1982) Termination of chromosome replication in *Bacillus subtilis*. *Proc. 12th International Congress of Biochemistry*, Perth, WA, Australia, **POS 003-60**.

2. M.T. Smith and R.E. Loughlin (1982) Cloning of the *cysJ* gene of *Escherichia coli*. *Proc. 12th International Congress of Biochemistry*, Perth, WA, Australia, **POS 003-77**.
3. A.S. Weiss, M.T. Smith, T.P. Iismaa and R.G. Wake (1983) Mapping and cloning DNA from the terminus region of the *Bacillus subtilis* chromosome and the manner of replication fork approach at termination. *Proc. Aust Biochem. Soc.* **15:72**.
4. T.P. Iismaa, M.T. Smith and R.G. Wake (1984) Confirmation, extension and genetic orientation of the physical map of the *Bacillus subtilis* replication terminus region. *Proc. Aust Biochem. Soc.* **16:2**.
5. M.T. Smith, C.A. Aynsley and R.G. Wake (1985) Cloning and localisation of the *Bacillus subtilis* chromosome replication terminus, *terC*. *Proc. Aust Biochem. Soc.* **17:10**.
6. *M.T. Smith, A.S. Weiss, T.P. Iismaa, C.A. Aynsley, R.B. Inman and R.G. Wake (1986) Termination of chromosome replication in *Bacillus subtilis*. *Proceedings of the 8th Lorne Genome Conference.*, **8:116**.
7. R.G. Wake, P.J. Lewis and M.T. Smith (1989) Termination of chromosome replication in *Bacillus subtilis*. *Proc. Aust Biochem. Soc.* **21:S33**.
8. *M.T. Smith and R. G. Wake (1989) Expression of the *rtp* gene of *Bacillus subtilis* is required for replication fork arrest at *terC*. *Proc. Aust Biochem. Soc.* **21:C46**.
9. K.S. Ahn, M.S. Malo, M.T. Smith and R.G. Wake (1991) Regulation of expression of the *rtp* (Replication Terminator Protein) gene of *Bacillus subtilis*. *Proceedings of the 13th Lorne Genome Conference.* **POS-1-2**.
10. M.T. Smith and R.G. Wake (1992) Definition and polarity of action of DNA replication terminators in *Bacillus subtilis*. *Proc. Aust. Soc. Biochem. and Molbiol.* **25: POS-2-33**.
11. R. G. Wake, M.T. Smith, D.B. Langley and K.S. Ahn (1993) The *rtp* gene of *Bacillus subtilis* - the role of its protein product in termination of chromosome replication and regulation of its expression. *Proc. Aust. Soc. Biochem. and Molbiol.* **26: SYM-7-2**.
12. R.G. Wake, M.T. Smith, D.B. Langley and P.A. Young (1994) The minimal DNA replication terminator of *Bacillus subtilis* and a model for fork arrest based upon specific DNA-protein and protein-protein interactions. *Proceedings of the 16th Lorne Genome Conference.* POS 1-13.
13. W.J.J. Mijer, M.T. Smith, R.G. Wake, G. Venema and S. Bron (1995) The replication region of the *B. subtilis* theta plasmid pLS20 contains a bifunctional replication terminator. *Abstracts of the 8th International Conference on Bacilli*, 75
14. *M.T. Smith, C.J. De Vries and R.G. Wake (1995) What makes a replication terminator tick? DNA sequences features important to terminator function in *B. subtilis*. *Abstracts of the 8th International Conference on Bacilli*, 80
15. R.G. Wake, M.T. Smith, D.B. Langley, A.H. Franks, P.A. Young and A.A. Griffiths (1995) How can a symmetrical dimer of a replication terminator protein bound to a chromosomal terminator cause polar arrest of a replication fork? *Journal of Cellular Biochemistry* 120.
16. P.A. Young, M.T. Smith, D.B. Langley, C.J. De Vries, and R.G. Wake (1995) Replication terminator protein-DNA terminator interactions and the arrest of replication fork movement. *Proceedings of the 7th Federation of Asian and Oceanic Biochemists and Molecular Biologists Congress COL-1-4*.

Books Chapter

1. R.G. Wake, A.S. Weiss, T.P. Iismaa, M.T. Smith and A.P. Healy (1984) Mapping and cloning DNA from the replication terminus region of the *Bacillus subtilis* chromosome and the manner of replication fork approach at termination. In *Genetics and Biotechnology of Bacilli* (Ganesan, A.T. and Hoch, J.A. Eds.):67-78.
2. R.G. Wake, P.J. Lewis and M.T. Smith (1990) The *rtp* gene and termination of chromosome replication in *Bacillus subtilis*. In *Genetics and Biotechnology of Bacilli*. Volume III (Zubowski, M., Ganesan, A.T. and Hoch, J.A. Eds.) Academic Press Inc., Orlando, USA:99-108.
3. P. W Kuchel and G. B. Ralston (coordinating authors) (1985). *Schaum's outline of theory and problems of Biochemistry*, Second Edition. McGraw-Hill. Material contributed.

PROFESSIONAL MEMBERSHIPS

Member | Australian Biochemical Society/Australian Society for Biochemistry and Molecular Biology (since 1982).

Member | Australasian Research management Society (2003-2021)

REFERENCES

Visit the website eriterconsulting.com.au for a resume and personal references from several research academics.