

ARTHUR-GOETTIG, Avril Kay (maiden name ARTHUR)

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PERSONAL

Date of Birth: 30 March 1955
Place: Fraserburgh, Scotland / GB
Nationality: British
Sex: female
Status: divorced
Children: Lilian, 16.09.93; Tamara, 30.07.95

Languages: English, mother tongue; German, French

Computer: Mac- and PC (Writing, Graphics, Internet, etc.)

Fields: Molecular Biology, Molecular Medicine, Genetics, Biochemistry, Immunology, Biotechnology, Biomedicine, Virology, etc.

CAREER

- 1996 → Freelance editor, writer, translator for scientific publications, biotech business plans, publicity, websites, product profiles, annual journals, etc.; 1-to-1 coaching, courses, workshops on scientific writing.
- 1988-1996: Joint project leader with Prof. E. Fanning; "Grundlagen und Anwendung der Gentechnologie" BMFT/ Genzentrum, Munich, Germany.
- 1984-1987: Postdoctoral Fellow, with Prof. E. Fanning, Institute for Biochemistry, University of Munich, Germany.
- 1984: Visiting scientist, Dalhousie University, Nova Scotia, Canada, June-October.
- 1981-1984: Research Fellow, with Prof. D. J. Sherratt, Institute of Genetics, University of Glasgow, Glasgow, UK.
- 1984: MRC grant for postdoctoral fellowship, 1984 (June- Nov.: G840/209/7CB).
- 1980-1983: MRC grant for postdoctoral fellowship (G979/674/CB).
- 1977-1980: MRC studentship for training in research methods.

EDUCATION

- 1977-1981: D. Phil. (Dr. rer. nat.), University of Sussex, Brighton, UK, with Prof. D. J. Sherratt on "The Molecular Mechanisms of the Transposition Process of Tn1/3."
- 1973-1977: BSc (honours, class 2.1) in Molecular Biology, Edinburgh University, Edinburgh GB. (Honours degree equivalent to Diploma / MSc)
- 1966-1973: Albyn School, Aberdeen, UK. 7 SCE highers (English, Mathematics, Chemistry, Physics, Biology, History, French: 4 SCE highers = Abitur / University entrance). Dux of the School 1973.

Student Supervision; Diplom and Doktorarbeiten (PhD)

F-Praktikanten = 2

Dipomanden = 6

Doktoranden (PhD) = 6

INVITED DEPARTMENTAL SEMINARS

University of Dundee (Biological Sciences), Dundee, UK, 1982.
Centre Biochimie et Biologie Moleculaire (CRNS), Marseille, France, July 1983.
Max-Planck Institut für Biochemie, München, Germany, April, 1984.
Institut für Mikrobiologie und Genetik, Universität München, Germany, April 1984.
Biochemistry Department, Dalhousie University, Halifax, Nova Scotia, Canada, July 1994.
Institut für Biochemie, Universität München, Germany, Jan. 1985.
Genzentrum, München, Germany, June 1986.
Department of Genetics, University of Glasgow, UK, December, 1987.
"DNA Group", University of Munich, Germany, June 1990.
1986 – 1995: Genzentrum Annual meetings, Tegernsee, Germany.

INVITED SYMPOSIUM PRESENTATIONS

Society for General Microbiology, 84th Ordinary Meeting, Cardiff, Wales, UK, January 1979.
Lunteren Lectures on Molecular Genetics, the Netherlands, October 1979.
The Genetical Society, 192nd Meeting, Leeds, UK, March 1990.
Society for General Microbiology, 91st Ordinary Meeting, Cambridge, UK, April 1981.
The German Genetics Society, Munich, Germany, May 1987 (Talk).
Oncogenes and Growth Control, EMBL, Heidelberg, Germany, April 1992 (Poster).
1986 – 1992: The Tumor Virus Meetings: Cold Spring Harbor, USA, / Cambridge, UK (Talks).

TEACHING EXPERIENCE

1977 – 1980: Microbial Genetics Tutorials, University of Sussex, UK.
1977 – 1980: Microbial Genetics Practicals, University of Sussex, UK.
1978 – 1980: Final year project supervisor, Microbial Genetics, University of Sussex, UK.
1979: Summer School Tutor and Demonstrator, Open University, Nottingham, UK.
1980 – 1984: Genetics and Molecular Biology Tutorials for honours students, University of Glasgow, UK.
1981 – 1983: Molecular Biology Practicals, as Organisor, University of Glasgow, 1981-83.
1982 – 1983: Genetics Practicals, as Organiser, University of Glasgow, UK, 1982-83.
1982 – 1983: Final year project supervisor, Genetics, University of Glasgow, UK, 1982-84.
1985 – 1995: "Biochemie Großpraktikum", Universität München, 1-2 times per year.
2007 → Courses, personal training and workshops on scientific writing

Selected Publications within the context of (non-confidential) freelance work; 1996 → :

- Annual report: Integrated Pest Management: ICM case studies of GCPF member companies and associations. 1998
- Company brochure: AgrEvo's contribution to Integrated Crop Management. 1999
- Annual report: Sustainable Agriculture: Some contributions of GCPF member companies and associations. 1999
- Company brochure: The contribution of Aventis to Integrated Crop Management. 2000 & 2001
- Company brochure: The Gateway to Biotechnology – Innovations- und Gründerzentrum Biotechnologie IZB Martinsried (2000 – 2008)
- Public Health Journal: Bayer Environmental Science (Annually: 2005 →)
- Scientific manuscripts: innumerable (1996 →)

SCIENTIFIC PUBLICATIONS 1977-1999

- Arthur, A.** and D. J. Sherratt (1979): Dissection of the transposition process: a transposon-encoded site-specific recombination system. *Mol. Gen. Genet.* **175**, 267-274.
- Sherratt, D. J., **A. Arthur**, and M. Burke (1981): Transposon-specified site specific recombination systems. *C.S.H.S.Q.B.* **45**, 275-281.
- Arthur, A.**, M. Burke and D. J. Sherratt (1981): Inter-replicon transposition of the Hg^r transposon Tn501 is inducible by Hg²⁺ ions and proceeds through cointegrate intermediates. *Soc. Gen. Microbiol. Quarterly* Vol. **8**, p96.
- Sherratt, D. J., **A. Arthur** and P. Dyson (1981): Site-specific recombination. *Nature (London)* **294**, 608-610.
- Arthur, A. K.** and D. J. Sherratt (1982): Movable genetic elements. *TIBS* **75**, 121-122.
- Sherratt, D. J., **A. Arthur**, R. Bishop, P. Dyson, P. Kitts and L. Symington. (1983): Genetic transposition in bacteria; in Chater, K. F., Cullis, C. A., Hopwood, D. A., Johnston, A. W. B. and Woolhouse, H. W. (eds.) "Genetic Rearrangement" (Proceedings of the Fifth John Innes Symposium) Croon Helm, London, p 59-74.
- Arthur, A.**, E. Nimmo, S. Hettle. and D. Sherratt. (1984): Transposition and transposition immunity of transposon Tn3 derivatives having different ends. *EMBO J.* **3**, 1723-1729.
- Arthur, A.**, A. Höß and E. Fanning. Expression of SV40 T antigen in E.coli: Localization of T antigen origin DNA binding domain to within 129 amino acids. *J. Virol.* **62**, 1999-2006 (1988).
- Höß, A., **A. Arthur** and E. Fanning. Verfahren zur Renaturierung von unlöslichem Protein. BRD Patentanmeldung C08708 P3802045.9 (1988).
- Höß, A., **A. Arthur**, G. Wanner and E. Fanning. Recovery of soluble, biologically active recombinant proteins from total bacterial lysates using ion exchange resins. *Bio/Technology* **6**, 1214-1217 (1988).
- Fanning, E., J. Schneider, **A. Arthur** and A. Höß, I. Moarefi, S. Modrow. Structure and function of SV40 large T antigen: Communication between functional domains. In: *Curr. Topics Microbiol. Immunol.* **144**, 9-19 (1989). (eds. A.J. Levine, R. Knippers). Springer Verlag: Berlin.
- Montano, X., R. Millikan, J.M. Millhaven, D.A. Newsome, J.W. Ludlow, **A.K. Arthur**, E. Fanning, I. Bikel and D.M. Livingston. SV40 small t and an amino terminal domain of large T share a common transforming function. *Proc. Natl. Acad.Sci. USA*, **87**, 7448-7452 (1990).
- Höß, A., I. Moarefi, E. Fanning and **A.K. Arthur**. The finger-domain of SV40 large T antigen controls DNA binding specificity. *J. Virol.* **64**, 6291-6296 (1990).
- Dornreiter, I., A. Höß, **A.K. Arthur** and E. Fanning. SV40 T antigen binds directly to the large subunit of purified DNA polymerase alpha. *EMBO J.* **9**, 3329-3336 (1990).
- Höß, A., I. Moarefi, K.-H. Scheidtmann, L.J. Cisek, J.L. Corden, I. Dornreiter, **A.K. Arthur** and E. Fanning. Altered phosphorylation pattern of SV40 T antigen expressed in insect cells using a baculovirus vector. *J. Virol.* **64**, 4799-4807 (1990).
- Fanning, E., A. Höß, and **A. Arthur**. Method for the solubilization of an otherwise insoluble protein. US Patent No. 5, 051, 097 (1991).
- Dobbelstein, M., **A.K. Arthur**, S. Dehde, K. van Zee, A. Dickmanns and E. Fanning. Intracistronic complementation reveals a new function of SV40 T antigen that cooperates with Rb- and p53-binding to stimulate DNA synthesis in quiescent cells. *Oncogene* **7**, 837-847 (1992).
- Moarefi, I., C. Schneider, K. van Zee, A. Höß, **A. Arthur** and E. Fanning. Control of SV40 DNA replication by protein phosphorylation. In: *DNA Replication and the Cell Cycle*, eds. E. Fanning, R. Knippers and E.-L. Winnacker, Springer Verlag: Heidelberg pp 157-170 (1992).
- Moarefi, I., D. Small, I. Gilbert, M. Höpfner, S. Randall, C. Schneider, A.A.R. Russo, U. Ramsperger, **A. K. Arthur**, H. Stahl, T. J. Kelly and E. Fanning. Mutation of the cyclin-dependent kinase phosphorylation site in SV40 large T antigen specifically blocks SV40 origin DNA unwinding. *J. Virol.* **67**, 4992-5002 (1993).
- Dickmanns, A., A. Zeitvogel, F. Simmersbach, R. Weber, **A.K. Arthur**, S. Dehde, A.G. Wildeman and E. Fanning. The kinetics of SV40-induced progression of quiescent cells into S-phase depend on four independent functions of large tumor antigen. *J. Virol.* **68**, 5496-5508 (1994).
- Weisshart, K., M.K. Bradley, B.M. Weiner, C. Schneider, I. Moarefi, E. Fanning, and **A.K. Arthur**. An N-terminal deletion mutant of Simian Virus (SV40) large T antigen oligomerizes incorrectly on SV40 DNA but retains the ability to bind to DNA polymerase alpha and replicate SV40 DNA in vitro. *J. Virol.* **70**, (1996).
- Pirlet and **Arthur-Goettig**. Maintaining Life and Health by Natural Selection of Protein Molecules. *J. Theoretical Biol.* (1999) **201**, 75-85.