

Prof. Dr. Edgar Serfling

Department of Molecular Pathology, Institute of Pathology, University of Wuerzburg,
Josef-Schneider-Str. 2, D-97080 Würzburg, Germany

Curriculum Vitae

Personal data:

Born: 07.02.1944 in Hermsdorf/Thüringen/Germany
Nationality: German
Family: Married, 2 children

Education:

1950-1958 Basic School in Hermsdorf, Thüringen, Germany
1958-1961 Gymnasium in Stadtroda, Thüringen, Germany
1961-1962 Abitur (ABF II) at Martin-Luther-University Halle/Wittenberg
1963-1968 Studies of biology at Faculty of Natural Sciences, Martin-Luther-University in Halle/Wittenberg

Academic Degrees:

1968 "Diplombiologe" (Master in Biology) at the Martin-Luther-University
1972 Dr. rer. nat. (PhD, first degree) at the Martin-Luther-University
1983 Dr. sc. (Habilitation, second degree) at the Academy of Sciences of former GDR (East-Germany), Berlin
1990 Habilitation at the Medical Faculty of the University Würzburg in "Physiological Chemistry". Thesis: "Analysis of T Lymphocyte-specific Transcription Factors: A Contribution to the Activation and Differentiation of T Lymphocytes".
1991 „Lehrbefugnis“ at the University Würzburg for Physiological Chemistry
1993 Professor in Molecular Pathology at the University Würzburg;
Head of the Department of Molecular Pathology
2001 Guest Professor at the University Suzhou, China

Research Positions:

1968-1972: Research Assistant at the Central Institute for Genetics and Cultural Plant Research at the Academy of Sciences of former GDR in Gatersleben
1973-1983: Senior Research Assistant and Group Leader at the same institution
1984-1985: Senior Research Assistant at the Institute of Molecular Biology II of University Zürich/Switzerland
1985-1992: „Wissenschaftlicher Rat“ at the Institute of Virology and Immunobiology at Würzburg University
Project leader within SFB 165 of the Germany Research Council (DFG)
1987 Research for 4 months at the University of California, San Diego (UCSD), School of Medicine, Laboratory of Prof. Michael Karin

- since 1993: Head of the Department of Molecular Pathology at the Institute of Pathology, University Würzburg.
Grant funding by the SFBs 165, 465 and 466 of the DFG, by the Bayerische Forschungsstiftung, Wilhelm Sander-, Scheel-, Volkswagen- und Thyssen-Stiftung.
- 1998-2003: Speaker of the DFG-funded Research Group FOR303 entitled „Defective Transcriptional Activation in Tumors of Lymphatic Tissues“ at the University Würzburg;
Member of the councils of SFBs 465 (Würzburg) and 466 (Erlangen)
- July 2008 Speaker of the Transregional Collaborative Research Center TR52 Würzburg/Mainz/Berlin entitled “Transcriptional Programming of Individual T Cell Subsets”.

Research Topics:

- 1968-1969: Cytological studies on polytene chromosomes
- 1969-1972: Isolation and gel electrophoretic analysis of RNA from diptera (Chironomus, Drosophila etc.)
- 1972-1976: Studies on the RNA-transcription of polytene chromosomes, in particular in puffs and Balbiani Rings from Chironomus (Diptera)
- 1976-1980: Characterisation of Balbiani Ring-DNA-structure by molecular cloning, analysis of Balbiani Ring-gene products
- 1981-1983: Analysis of expression of eukaryotic genes after injection into *Xenopus* oocytes, functional analysis of tRNA-genes from chloroplasts of *Pelargonium*. Molecular cloning of bovine growth hormone genes.
- 1984-1985: Analysis of the metal-inducible enhancers from metallothionein-genes (Lab. of Prof. W. Schaffner)
- since 1986: Analyses of transcriptional regulation of lymphokine genes, in particular of lymphokine genes interleukin (IL-) 2 and IL-4. Molecular studies on the activation, proliferation and differentiation of T- (and B-) lymphocytes. Isolation and molecular characterisation of transcription factors from T lymphocytes. Establishment of transgenic and gene-deficient mice (e.g. for NFATc2 and Calcineurin) for the study of transcription factor activation and function in lymphoid cells
- 2008: Molecular analysis of human lymphomas and of atopic diseases, in particular in the context of characterisation of NFAT-transcription factors as tumor suppressor and oncogenes of lymphoid tumors. Creation of mice for the conditional inactivation of NFATc1 and its isoforms.
Studies on the autoregulation of NFATc1 expression