

Beruflicher Lebenslauf

Persönliche Daten

Geburtsdatum: 22. November 1957
Geburtsort: Mistelbach
Staatsangehörigkeit: Österreich
Familienstand: verheiratet

Dr. Alfred Schöller

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Ausbildung

1969 – 1976: Bundesgymnasium Laa/Thaya, Matura 6/1976
1977 – 1978: Wehrdienst Aufklärungsbataillon Mistelbach (NÖ)
1978 – 1985: Studium Biologie/Biochemie an der Universität Wien
1983 – 1984: Dissertationsarbeit am Department of Molecular, Cellular and Developmental Biology (MCDB) mit **Prof. Dr. J. Pickett-Heaps**, University of Colorado, Boulder, USA
1985: Stipendium der Austrian-American Educational Commission am Fox Chase Cancer Center mit **Prof. Dr. M. Stearns**, Department of Pharmacology, Philadelphia, USA
1986: Promotion in Biologie (Dr. phil.), Betreuerin: **Prof. Dr. Tschermak-Woess**, Universität Wien, Österreich
1986 – 1987: akademisches Training, Abteilung für Zytologie, Zytogenetik und Kryptogamkunde, am Institut für Biochemie (beide Universität Wien) und am Forschungszentrum Seibersdorf

Berufserfahrung – Forschung

1988 – 1989: Postdoktorat, University of Texas, Department of Botany, Austin, USA (mit **Prof. Dr. D. Herrin**)
1990 – 1992: Forschungsassistent, Department of Carcinogenesis, M. D. Anderson Cancer Center, Smithville, Texas, USA (mit **Prof. Dr. J. Reiners Jr.**)
1993 – 1995: Forschungsassistent, Institute of Chemical Toxicology, Wayne State University, Detroit, USA (mit **Prof. Dr. J. Reiners Jr.**)
1996 – 1998: FWF Projekt, Allgemeine und Experimentelle Pathologie, AKH-Wien, Medizinische Universität Wien
2000 – 2001: Österreichisches Nationalbankprojekt, IFA-Tulln, Abteilung für Biotechnologie in der Tierproduktion, Tulln, NÖ

Berufserfahrung – Klinisches Labor

2001 – 2003: Molekularbiologe, Institut für medizinische und chemische Labordiagnostik, LK Weinviertel Mistelbach-Gänserndorf, NÖ
2004 – laufend: Molekularbiologe, Institut für Klinische Pathologie, LK Weinviertel Mistelbach-Gänserndorf, NÖ
2009 – laufend: Molekularbiologe, Diagnostics Center Weinviertel, Mistelbach, NÖ

Berufserfahrung – Lehre

- 2007 - 2008: Betreuung Bakkalaureatsarbeiten FH Wr. Neustadt, Biomedizinische Analytik
Mayer, M. (2008) Isolierung und Charakterisierung von freier RNA aus dem Patientenharn.
Cionca, S. (2008) Nachweis von tumorspezifischer mikro-RNS im Harn von Prostatakrebspatienten mittels Echtzeit PCR.
Lektor im Kurs „Gynäkologische Zytodiagnostik“ (FH Wr. Neustadt)
- 2009: Organisation Workshop - Prinzipien und Methoden der klinischen Molekularbiologie (FH Krems)
Organisation Kurs Klinische Real-Time PCR: Grundlagen, Anwendungen und Qualitätsmanagement (LK Weinviertel Mistelbach)
Lektor im Kurs „Gynäkologische Zytodiagnostik“ (FH Wr. Neustadt)
- 2010: Organisation Kurs Klinische Real-Time PCR: Theorie, neueste Applikationen und Qualitätsmanagement (Stadtsaal Mistelbach)
Betreuung Bakkalaureatsarbeiten FH Wr. Neustadt und FH Campus Wien, Biomedizinische Analytik
Mauser, M. (2010), Novak, N. (2010) Ott, J. (2010)
- 2012: Betreuung Bakkalaureatsarbeit FH Campus Wien, Biomedizinische Analytik (Rebekka Prokschi)

Stipendien und Preise

- 1982: Karl Böhm Preis
1983/1985: Stipendium der Austrian-American Educational Commission
1996: Theodor-Körner-Preis
1997: VFWF Poster Preis (Koautor)
2001: Einladung GenPharmTox zum ISSX Meeting, München
2006: Dr. Erwin Pröll Meilensteinpreis für Innovation
2009: RIZ Genius Preis 3. Platz

Mitgliedschaften

European Society of Human Genetics (ESHG)
Österreichische Gesellschaft für Molekulare Biowissenschaften und Biotechnologie (ÖGMBT)

Forschungsförderung

Fonds of the Austrian National Bank (P8319)

Molecular cross-talk between the human androgen receptor (AR) and transcription factors (dioxin receptor, pregnenolone X receptor) activated by environmental pollutants (2000 - 2001)

Fonds of the Austrian National Bank (P11491)

Clinical evaluation and molecular assessment of the novel human prostate cancer marker PCADM-1: early cancer detection in urine, in urine cytopins and in fine needle aspirates (2005 - 2008)

Österreichischer Innovationsscheck FFG 2009

Österreichischer Innovationsscheck FFG 2012

Publikationen

Journalpublikationen (*peer-reviewed*)

1. Tschermak-Woess, E., and A. Schöller (1982) Distribution and partition of the DNA-network in some cyanophyceae as shown by DAPI-fluorescence. *Plant. Syst. Evol.* **140**: 207 – 223.
2. Reiners, J. J. Jr., Cantu, A., Thai, G., and A. Schöller (1992) Differential expression of basal and hydrocarbon-induced cytochrome P-450 monooxygenase and quinone reductase activities in subpopulations of murine epidermal cells differing in their stages of differentiation. *Drug Metab. Dispos.* **20**: 360 – 366.
3. Reiners, J. J. Jr., Cantu, A. R., and A. Schöller (1992) Phorbol-ester-mediated suppression of cytochrome P450 Cyp1a-1 induction in murine skin: involvement of protein kinase C. *Biochem. Biophys. Res. Commun.* **186**: 970 – 976.
4. Reiners, J. J. Jr., Schöller, A., Bischer, P., Cantu, A. R., and A. Pavone (1993) Suppression of cytochrome P450 Cyp1a-1 induction in murine hepatoma 1c1c7 cells by 12-O-tetradecanoylphorbol-13-acetate and inhibitors of protein kinase C. *Arch. Biochem. Biophys.* **301**: 449 – 454.
5. Schöller, A., Hong, N. J., Bischer, P., and J. J. Reiners Jr. (1994) Short and long term effects of cytoskeleton-disrupting drugs on P450 Cyp1a-1 induction in murine hepatoma 1c1c7 cells: Suppression by the microtubule inhibitor nocodazole. *Mol. Pharmacol.* **45**: 944 – 954.
6. Kashani, M., Steiner, G., Heitel, A., Schaufler, K., Thalhammer, T., Amann, G., Kramer, G., Marberger, M., and A. Schöller (1998) Expression of the arylhydrocarbon receptor (AhR) and arylhydrocarbon receptor nuclear translocator (ARNT) in human fetal, juvenile, benign hyperplastic and malignant prostate. *The Prostate* **37**: 98 – 108.
7. Schöller, A., Mayer, M., Cionca, S., Grubmüller, K., Wang, M., Hu, Y., Stearns, M., and C. Freibauer (2009) Relative real time qPCR analysis of molecular urine markers (mRNA, miRNA) for prostate cancer. 3. Forschungsforum der österreichischen Fachhochschulen, 28 – 34, ISBN 978-853912850.

Publizierte Konferenzbeiträge

- Schöller, A., Pickett-Heaps, J. D., and J. Gilkey. The cytoplasm in algal cell structure. *J. Cell Biol.* **196a**, 730 (1984).
- Kozska, C., Foisner, R., Schöller, A., Seyfert, H.-M., and G. Wiche. Novel microtubule binding protein of high Mr from brain. *J. Cell Biol.* **550a**, 2061 (1986).
- Reiners, J. J. Jr., Cantu, A. R., Schöller, A., Pavone, A., and E. Kodari. Phorbol-ester-dependent suppression of P-450 CYP1A1 induction in murine skin. *Proceedings AACR* **33**, 924 (1992).
- Reiners, J. J. Jr., Hong, N., and A. Schöller. Cutaneous P450 CYP1A1 expression is suppressed during ontogeny of skin cancer. *Proceedings AACR* **34**, 925 (1993).

Schöller, A., Hong, N., Bischer, P., and J. J. Reiners Jr. Effects of cytoskeleton depolymerizing drugs and cell cycle on P450 Cyp1a-1 induction in cultured hepatoma cells. *Proceedings AACR* **35**, 3318 (1994).

Schöller, A., Hong, N., Bischer, P., and J. J. Reiners Jr. Cell cycle regulation of aromatic hydrocarbon receptor function. Meeting of the Society of Toxicology, Baltimore (1995).

Schöller, A., Bischer, P., and J. J. Reiners Jr. Inhibition of cytochrome P450 Cyp1a-1 induction by the protein kinase inhibitor H-7; independence of aryl hydrocarbon receptor function. *Proceedings AACR* **36**, 3171 (1995).

Schöller, A., Schaufler, K. and T. Thalhammer. Aryl hydrocarbon receptor(AHR)-dependent cytochrome P450 gene expression in human prostate cancer cell lines. *Proceedings AACR* **38**, 3729 (1997).

Schöller, A., Herzog, W., Schaufler, K., Gröbl, M., Kashani, M., M., Marberger, M., Graf, J., Steiner, G., and T. Thalhammer. A role of the dioxin receptor in human prostate carcinogenesis. **8th IMP Spring Conference**, 80 (1997).

Schöller, A., Herzog, W., Schaufler, K., Kashani, M., Gröbl, M., Marberger, M., Graf, J., Steiner, G., and T. Thalhammer. Molecular mechanisms of the effects of environmental hormones (aryl hydrocarbon receptor ligands) on human prostate cancer cells and their possible contribution to prostate carcinogenesis. Österreichische Gesellschaft der Ärzte, *Wiener Klinische Wochenschrift* **109/17**, 701 (1997).

Herzog, W., Schöller, A., Gröbl, M., Marberger, M., Graf, J., Thalhammer, T., and G. Steiner. The influence of environmental toxins (2,3,7,8-tetrachlorodibenzo-*p*-dioxin) on the expression of growth factors in human prostate cell lines. *Proceedings ISSX* **11**, 144 (1997).

Schaufler, K., Schöller, A., Haberl, I., Hamilton, G., Graf, J., and T. Thalhammer. Expression of protein kinase C in human prostate tumor cell lines. *Proceedings ISSX* **11**, 145 (1997).

Schöller, A., Herzog, W., Schaufler, K., Gröbl, M., Steiner, G., Marberger, M., Graf, J., and T. Thalhammer. Constitutive and aryl hydrocarbon receptor (AhR)-mediated expression of the cytochrome P450 genes CYP1A1 and CYP1B1 in human prostate cancer cell lines and primary cultures of stromal and epithelial origin. *Proceedings ISSX* **11**, 146 (1997).

Schöller, A., Schaufler, K., Herzog, W., Kashani, M., Gröbl, M., Marberger, M., Graf, J., Steiner, G., and T. Thalhammer. Dioxin receptor-dependent gene expression in human prostate cancer cells and primary epithelial cultures. *Archives of Pharmacology Supplement* **46** (1997).

Schaufler, K., Schöller, A., Ecker, R., Steiner, G., Marberger, M., Graf, J., and T. Thalhammer. Protein kinase C in human prostate cancer cell lines: Expression of isoenzymes and activation by the environmental pollutant 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD). *VFWF Fakultätsvorlesung*, AKH Wien (1997).

Steiner, G., Schöller, A., Kashani, M., Heitel, A., Thalhammer, T., and M. Marberger. Expression of the AhR, ARNT, CYP1A1 and CYP1B1 in the SMC of the human prostate. *Urology Meeting*, Germany (1998).

Schöller, A. Effects of the environmental pollutant 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) on estrogen(ER)-/androgen receptor (AR)-dependent signal transduction pathways in human prostate cancer cell lines. *8th International Conference on Combined Effects of Environmental Factors (ICCEF)*, Baden, Austria (1998).

Schöller, A. Regulation of AhR function by different signal transduction pathways in human prostate and breast cancer cell lines. *9th IMP Spring Conference*, **abstract 63** (1998).

Schöller. Regulation of arylhydrocarbon receptor (AhR) function by different signal transduction cascades in human prostate cancer cells: Cross talk between AhR and androgen receptor signaling. *12th ISMDO*, **a276**, Montpellier, France (1998).

Schöller, A. The environmental pollutant-activated dioxin receptor (DR) modulates androgen (AR) and estrogen receptor (ER) signalling-mediated responses in human prostate cell lines: Novel molecular aspects of prostate cancer origin. *VFWF Fakultätsvorlesung*, AKH Wien (1998).

Schöller, A., Sollner, K., Freibauer, C., and G. Lunglmayr. Expression of environmental-pollutant responsive transcription factors in human benign prostate hyperplastic (BPH) and prostate cancer (CaP) tissues. Sommertagung der Gesellschaft der Ärzte, *Wien Klin. Wochenschr.* **113/19**, **756 – 757** (online: <http://www.billrothhaus.at/>; Sommertagung der Gesellschaft der Ärzte, 2001).

Schöller, A., Freibauer, C., Sollner, K., and G. Lunglmayr. Chemical pollutant-responsive transcription factors in human prostate malignancies. *ISSX Meeting 2001*, Munich (2001).

Schöller, A., Freibauer, C., Sollner, K., and G. Lunglmayr. Pollutant-responsive transcription factors and human prostate disease: biotechnology in cancer prevention. *Jahrestagung ÖGBM/ÖGGGT/ÖGBT/EMBnet Life Sciences 2001*, Signal Transduction **P39** (2001).

Schöller, A., Freibauer, C., Sollner, K., Gerstner L., Rubey, H., and G. Lunglmayr. Glycine N-methyltransferase (GNMT): tissue detection, cellular functions and role in human diseases. *J Laboratory Medicine* **26**: 203 (2002). Schöller A., Freibauer C., Sollner K., Lunglmayr G. and H. Rubey. Real Time PCR Quantification Of Environment-Responsive Transcription Factor mRNAs in Human Prostate Cancer Tissue. *Wien Klin Wochenschrift* **114/18**, Supplementum 4 (2002).

Stearns M. E., Hu Y., Wang M., Okita A., Rukstalis D. B., Garcia F. U., Schöller A., and G. Lunglmayr. PCADM-1: A Novel Urine Marker for Prostate Cancer. *Meeting of the American Urological Association*, **abstract 954**, San Francisco (2004).

Schoeller A., Freibauer C., Dlouhy-Schütz E., Wang M., Hu Y., Stearns M. and G. Lunglmayr. Preliminary mRNA expression profile of tumor markers in spontaneous urine of prostate cancer patients. *Clin. Chem Lab. Med.* **44**, A15, P16 (2006).

Schöller A. Prostate cancer urine markers. 3rd Partnering Day for Biomedical Research, http://www.medunigraz.at/partneringday/pdf/L11_LKH%20Weinviertel_Schoeller.pdf, Graz (2006).

Schoeller A., Freibauer C., Dlouhy-Schütz E., Wang M., Hu Y., Stearns M. and G. Lunglmayr. Relative quantification of prostate cancer tumor marker mRNAs in urine cell filtrates by SYBR green Lightcycler qPCR. 3rd International qPCR Symposium, **abstract 149**, Weihenstephan (2007).

Schöller A., Freibauer C., Grubmüller K., Stearns M. and G. Lunglmayr. Towards RNA-based urine real time qPCR assays for a clinical prostate tumor survey. *Clin. Chem Lab. Med.* **46**, A63, P26 (2008).

Cionca S., Freibauer C., Grubmüller K., Lunglmayr G. and A. Schöller. Prostate cancer specific miRNA detection in urine by LightCycler480 RT-qPCR. *Clin. Chem Lab. Med.* **46**, A62, P23 (2008).

Mayer M., Freibauer C., Grubmüller K., Lunglmayr G. and A. Schöller. Cell free urine RNA (ufRNA) as a potential novel resource for prostate cancer diagnostics. *Clin. Chem Lab. Med.* **46**, A63, P25 (2008).

Schöller, A., Dworzak, M., and C. Freibauer. Performance of the Therascreen k-RAS mutation assay on the LightCycler480®Typell instrument in a clinical routine setting. qPCR 2009 Event. *Diagnostics&Molecular Markers*, **P010**, ISBN 9783000268267 (2009).

Schöller, A., Mayer, M., Cionca, S., Grubmüller, K., Stearns, M., Wang, M., Hu, Y., and C. Freibauer. Prostate cancer specific mRNA/miRNA detection in cell-free patient urine by real time RT-qPCR. qPCR 2009 Event. *Diagnostics&Molecular Markers*, **P120**, ISBN 9783000268267 (2009).

Mauser V., Enzinger S., Freibauer C. and A. Schöller A. Formaldehyde-fixed, paraffin-extracted DNA quality control for K-RAS/B-RAF mutation analysis by densitometry of fragment size distribution and real-time qPCR. *Clin Chem Lab Med* **48**, P16 (2010).

Eingeladene Gastvorträge

1997 – *Constitutive expression of aryl hydrocarbon receptor (AhR)-dependent cytochrome P450 genes in human prostate cancer cell lines.* **Mayo Clinic and Foundation**, Department of Urological Research, USA (Prof. Dr. D. Tindall)

1997 – *Does the arylhydrocarbon receptor (AhR) and AhR-dependent gene battery play a role in human prostate chemical carcinogenesis?* **TU Munich**, Institute for Toxicology and Environmental Hygiene, Munich, Germany (host: Prof. Dr. J. Döhmer)

1998 – *The aryl hydrocarbon receptor (AhR) in the human prostate: its role in chemical carcinogenesis by induction of the cytochrome P450 system and interaction with the steroid hormone receptor-dependent signal transduction pathway.* **Heinrich Heine University**, Medical Institute of Environmental Hygiene, Düsseldorf, Germany (Prof. Dr. J. Abel)

1999 – *Molecular effects of the dioxin receptor on estrogen (ER)/-androgen (AR) receptor-dependent signal transduction and gene expression patterns in human prostate cancer cell lines.* **Karl Philipps University**, Institute of Anatomy and Cell Biology, Marburg, Germany (Prof. Dr. E. Weihe)

1999 – *Environmental pollutant activated transcription factors and human prostate disease.* **Boehringer-Ingelheim**, Exploratory Research, Austria (Dr. Norbert Schweifer)

2005 – *Molecular prostate cancer diagnostics: the urine renaissance.* **Landeskrankenhaus Wienviertel**, Karl Landsteiner Institut, Mistelbach, Austria (Prof. Dr. G. Lunglmayr)

2009 – *Klinische Real-Time PCR: von der Virenquantifizierung zur Tumorprognostik.* **BIOMED-Austria**, 17. Jahrestagung der Biomedizinischen AnalytikerInnen, Krems, Austria.

2010 - *"Targeting the human urine RNAome for tumor diagnostics by qPCR"*, qPCR 2010 Vienna.

Sprachkenntnisse

Englisch

Interessen & Hobbies

einheimische Pflanzen

Bücher (Literatur und wissenschaftliche Sachbücher)

fremde Kulturen und alte Zivilisationen

gemäßigter Sport (Joggen)