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## Education

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2008 - Present	Fellow in Internal Medicine, Innsbruck Medical University, Austria
2005 - 2008	Innsbruck Medical University, Studies in Molecular Cell Biology PhD awarded in June, 2008
1999 - 2005	Innsbruck Medical University, Studies in Medicine MD awarded in April, 2005 (GPA: 3.6/4.0)
1990 - 1998	High School – Bundesrealgymnasium Adolf-Pichler-Platz, Innsbruck, Austria

## Military Service

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1999	Compulsory Military Service Military Hospital 2, Innsbruck, Austria.
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## Research

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June, 2008 – Present	Post-Doctoral Fellow Dept. of Internal Medicine IV, Innsbruck Medical University
April, 2005 - June, 2008	Post-Doctoral Fellow Research Laboratory, Dept. of Urology, Innsbruck Medical University
February, 2003 - April, 2005	Research Assistant Medical Doctoral Thesis at the Dept. of General Internal Medicine and at the Dept. of Urology, Innsbruck Medical University, Austria.

## Honors & Awards

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November, 2008	C.E. Alken Prize 2007 – awarded by the C.E. Alken Foundation for the best paper in the field of “Urology” ( <i>first author</i> )
October, 2008	ARTP-Award – awarded by the Society for Basic Urological Research SBUR ( <i>co-author</i> )
May, 2008	Otto-Seibert Prize 2007 – awarded by Innsbruck Medical University ( <i>first author</i> )
March, 2007	EAU - Best Paper Award 2006 – awarded by the European Association of Urology for the best paper published in 2007 in the field of basic urological research ( <i>first author</i> )
February, 2007	MCBO-Award – one year’s funding of the doctoral position due to extraordinary scientific accomplishments during the first year of the thesis work
October, 2006	Thesis Prize awarded by the Austrian Cancer Association (Österreichische Krebshilfe-Krebsgesellschaft)
April, 2006	Wilhelm-Auerswald-Prize – 2 <sup>nd</sup> place for best medical doctoral thesis in Austria

October, 2005 Novartis Poster-Prize, Austrotransplant Meeting 2005, Alpbach, Austria  
 2002 and 2000 2x Scholarship for superior academic performance - awarded by Innsbruck Medical University, Austria

### Extracurricular

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April, 2007 Basic and advanced programming with “R”  
 2006 Animal Experimentation  
 One week course of theoretical and practical teaching in handling animals including mice, rats, chicken and rabbits (according to BGBl. Nr. 501 / 1989, i.d.F. BGBl. I Nr. 136 / 2001), Innsbruck Medical University, Austria.  
 2005-2008 Mentoring and supervision of 2 undergraduate students, 2 MD students and 3 technicians.  
 2005 Basic Fast Realtime PCR System Training  
 1999 – 2005 IT-Assistant  
 Institute of Geotechnical and Tunnel Engineering (Prof. Dr. D. Kolymbas), Leopold-Franzens University of Innsbruck and  
 Dept. of Plastic Surgery (Prof. Dr. M. Ninkovic), Innsbruck Medical University, Austria.  
 2005 Medical Statistics  
 One semester course in analysis of data from clinical and epidemiological studies (using SPSS) at the Institute of Biostatistics and Documentation, Innsbruck Medical University, Austria.  
 2004 - 2005 Medical English – Communicational Skills for Clinical Practice  
 One semester course for senior medical students aimed at expanding language skills to efficiently communicate in a clinical setting.  
 2004 - 2005 Medical English – Advanced Course  
 Two semester course for senior medical students focusing on specific medical terms used in different medical subspecialties.  
 September, 2004 Flowcytometry Workshop (Austrian Society for Cytometry)  
 Winter, 2001 Additional Voluntary Classes  
 “Immune-endocrine Interactions” and “Molecular Pathophysiology” at the Institute of Pathophysiology, Innsbruck Medical University, Austria.

### Personal

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**Computer Skills:** MS Office 95 – XP, GraphPad Prism 2.1 – 4.0, Corel Draw, SPSS 12.0-13.0, Adobe-Photoshop, Isis Draw 2.3, CellQuest Pro, ModFit 3.0, Endnote 6.0-8.0, R.

**Language skills:** Fluent in spoken and written English, basic knowledge in French.

**Hobbies** include swimming, mountainbiking, climbing, piano and taekwondo (1st Dan).

## List of publications

### Basic Research

**Neuwirt H**, Puhr M, Santer F, Susani M, Doppler W, Marcias G, Rauch V, Brugger M, Hobisch A, Kenner L, Culig Z. Suppressor of Cytokine Signaling (SOCS)-1 is Expressed in Human Prostate Cancer and Exerts Growth-inhibitory Function through Down-regulation of Cyclins and Cyclin-dependent Kinases. *Am J Pathol*. 2009 in press

Malinowska K, **Neuwirt H**, Cavarretta I, Bektic J, Steiner H, Dietrich H, Moser P, Fuchs D, Hobisch A, Culig Z. Interleukin-6 stimulation of growth of prostate cancer in vitro and in vivo through activation of the androgen receptor. *Endocrine Relat Cancer*. 2008; Nov 14

**Neuwirt H**, Arias MC, Puhr M, Hobisch A, Culig Z. Oligomeric proanthocyanidin complexes (OPC) exert anti-proliferative and pro-apoptotic effects on prostate cancer cells. *Prostate*. 2008; 68:1647-54.

Cavarretta IT, **Neuwirt H**, Zaki MH, Steiner H, Hobisch A, Nemeth JA, Culig Z. Mcl-1 is regulated by IL-6 and mediates the survival activity of the cytokine in a model of late stage prostate carcinoma. *Adv Exp Med Biol*. 2008; 617:547-55.

Gollmann G, **Neuwirt H**, Tripp CH, Mueller H, Konwalinka G, Heufler C, Romani N, Tiefenthaler M. Sphingosine-1-phosphate receptor type-1 agonism impairs blood dendritic cell chemotaxis and skin dendritic cell migration to lymph nodes under inflammatory conditions. *Int Immunol*. 2008 Jul;20(7):911-23. Epub 2008 May 20.

**Neuwirt H**, Puhr M, Cavarretta IT, Mitterberger M, Hobisch A, Culig Z. Suppressor of cytokine signalling-3 is up-regulated by androgen in prostate cancer cell lines and inhibits androgen-mediated proliferation and secretion. *Endocr Relat Cancer*. 2007 Dec;14(4):1007-19. Erratum in: *Endocr Relat Cancer*. 2008 Mar;15(1):366.

Mitterberger M, **Neuwirt H**, Cavarretta IT, Hobisch A, Culig Z. Increased resistance to trail-induced apoptosis in prostate cancer cells selected in the presence of bicalutamide. *Prostate*. 2007 Aug 1;67(11):1194-201.

Bellezza I\*, **Neuwirt H**\*, Nemes C, Cavarretta IT, Puhr M, Steiner H, Minelli A, Bartsch G, Offner F, Hobisch A, Doppler W, Culig Z. Suppressor of cytokine signaling-3 antagonizes cAMP effects on proliferation and apoptosis and is expressed in human prostate cancer. *Am J Pathol*. 2006 Dec;169(6):2199-208. \* joint first authors

Cavarretta IT, **Neuwirt H**, Untergasser G, Moser PL, Zaki MH, Steiner H, Rumpold H, Fuchs D, Hobisch A, Nemeth JA, Culig Z. The antiapoptotic effect of IL-6 autocrine loop in a cellular model of advanced prostate cancer is mediated by Mcl-1. *Oncogene*. 2007 May 3;26(20):2822-32. Epub 2006 Oct 30.

**Neuwirt H**, Muller H, Cavarretta IT, Tiefenthaler M, Bartsch G, Konwalinka G, Culig Z. Akacid-medical-formulation, a novel biocidal oligoguanidine with antitumor activity reduces S-phase in prostate cancer cell lines through the Erk 1/2 mitogen-activated protein kinase pathway. *Int J Oncol*. 2006 Aug;29(2):503-12.

Müller H, Hofer S, Kaneider N, **Neuwirt H**, Mosheimer B, Mayer G, Konwalinka G, Heufler C, Tiefenthaler M. The immunomodulator FTY720 interferes with effector functions of human monocyte-derived dendritic cells. *Eur J Immunol*. 2005 Feb;35(2):533-45.

### Clinical Research

Mitterberger M, Pinggera GM, **Neuwirt H**, Colleselli D, Pelzer A, Bartsch G, Strasser H, Gradl J, Pallwein L, Frauscher F. Do mountain bikers have a higher risk of scrotal disorders than on-road cyclists? *Clin J Sport Med*. 2008 Jan;18(1):49-54.

Mitterberger M, Pinggera GM, Pelzer A, Bartsch G, Colleselli D, **Neuwirt H**, Gradl J, Pallwein L, Aigner F, Frauscher F, Strasser H. Comparison of the precision of transurethral endoscopic versus ultrasound-guided application of injectables. *BJU Int.* 2008 Jan;101(2):245-9. Epub 2007 Oct 8.

Lunacek A, Schwentner C, Oswald J, Fritsch H, Sergi C, Thomas LN, Rittmaster RS, Klocker H, **Neuwirt H**, Bartsch G, Radmayr C. Fetal distribution of 5alpha-reductase 1 and 5alpha-reductase 2, and their input on human prostate development. *J Urol.* 2007 Aug;178(2):716-21. Epub 2007 Jun 14.

Mitterberger M, Pallwein L, Gradl J, Frauscher F, **Neuwirt H**, Leunhartsberger N, Strasser H, Bartsch G, Pinggera GM. Persistent detrusor overactivity after transurethral resection of the prostate is associated with reduced perfusion of the urinary bladder. *BJU Int.* 2007 Apr;99(4):831-5. Epub 2007 Jan 22.

Mitterberger M, Pinggera GM, Maier E, **Neuwirt H**, Neururer R, Pallwein L, Gradl J, Bartsch G, Strasser H, Frauscher F. Value of 3-dimensional transrectal/transvaginal sonography in diagnosis of distal ureteral calculi. *J Ultrasound Med.* 2007 Jan;26(1):19-27.

Mitterberger M, Pinggera GM, **Neuwirt H**, Maier E, Akkad T, Strasser H, Gradl J, Pallwein L, Bartsch G, Frauscher F. Three-dimensional ultrasonography of the urinary bladder: preliminary experience of assessment in patients with haematuria. *BJU Int.* 2007 Jan;99(1):111-6. Epub 2006 Oct 11.