

Publikationen Dr. Günter Schwamberger:

Dissertation:

Variation antigener Eigenschaften von E. coli Proteinen in Abhängigkeit von Wachstumstemperatur und Wachstumsphase. Universität Salzburg 1984.

Zeitschriftenartikel:

Peter, R., Schwamberger, G., und Auer, M. 1986. Ein Heterozygotentest für den erblichen Stoffwechseldefekt "Hyperammoniämie I". *Jahrbuch der Universität Salzburg* 1983 -1985, pp.248-266.

Schwamberger, G., Flesch, I., and Ferber, E. 1989. Changes in the expression of macrophage antigens associated with activation for tumor cell killing. *Int. Immunol.* **1**:247-253. [\[Abstract\]](#)

Flesch, I., Schwamberger, G., and Kaufmann, S. H. E. 1989. Fungicidal activity of interferon- γ -activated macrophages: Extracellular killing of *Cryptococcus neoformans*. *J. Immunol.* **142**:3219-3224. [\[Volltext\]](#)

Schwamberger, G., Flesch, I., and Ferber, E. 1991. Tumoricidal effector molecules of murine macrophages. *Pathobiol.* **59**:248-253. [\[Abstract\]](#)

Schwamberger, G., Flesch, I., and Ferber, E. 1992. Characterization and partial purification of a high molecular weight tumoricidal activity secreted by murine bone marrow macrophages. *Int. Immunol.* **4**:253-264. [\[Abstract\]](#)

Harwix, S., Andreesen, R., Ferber, E., and Schwamberger, G. 1992. Human macrophages secrete a tumoricidal activity distinct from tumor necrosis factor- α and reactive nitrogen intermediates. *Res. Immunol.* **143**:89-94. [\[Volltext\]](#)

Weber, G., Schwamberger, G., and Ferber, E. 1993. A fast and sensitive method for detection of phospholipid-binding proteins on nitrocellulose membranes. *Anal. Biochem.* **209**:251-257. [\[Volltext\]](#)

Reiter, I., Schwamberger, G., and Krammer, B. 1997. Effect of photodynamic pretreatment on the susceptibility of murine tumor cells towards macrophage antitumor mechanisms. *Photochem. Photobiol.* **66**:384-388. [\[Volltext\]](#)

Reiter, I., Schwamberger, G., and Krammer, B. 1999. Activation of macrophage tumoricidal activity by photodynamic treatment in vitro - Indirect activation of macrophages by photodynamically killed tumor cells. *J. Photochem. Photobiol. B: Biol.* **50**:99-107. [\[Volltext\]](#)

Reiter, I., Krammer, B., and Schwamberger, G. 1999. Cutting edge: Differential effect of apoptotic versus necrotic tumor cells on macrophage antitumor activities. *J. Immunol.* **163**:1730-1732. [\[freier Volltext\]](#)

Schwamberger, G., Hammerl, P., Ferber, E., Freudenberg, M., and Galanos, C. 2003. TNF revisited: TNF-independent antitumor activity in sera of mice sensitized with *Propionibacterium acnes* and challenged with lipopolysaccharide. *J. Leukoc. Biol.* **74**:1056-1063. [\[freier Volltext\]](#)

Wagner, A. Y., Holle, E., Holle, L., Yu, Y., and Schwamberger, G. 2008. Immunological tolerance and tumor rejection in embryo-aggregated chimeric mice - Lessons for tumor immunity. *BMC Cancer* **8**:370. [\[freier Volltext\]](#)

Buchkapitel:

Hacker, G. W., Goetschel, A., and Schwamberger, G. 2004. Conscious Production and Purchase of Reagents for Molecular Morphology: Methodological, Ethical and Legal Considerations. In: *Advances in Pathology, Microscopy & Molecular Morphology: Molecular Morphology in Human Tissues: Techniques and Applications*. Hacker, G. W. and Tubbs, R. R. (eds.), CRC Press, pp. 255-276.

Tagungsbeiträge:

- Schwamberger, G., und Strack, H. B. 1984. Variation antigener Eigenschaften von E. coli Proteinen in Abhängigkeit von Wachstumstemperatur und Wachstumsphase. *Hoppe Seyler's Z. Physiol. Chem.* **365**:949.
- Peter, R., und Schwamberger, G. 1984. Eine hochempfindliche Bestimmungsmethode für Carbamoylphosphatsynthetase I (EC 2.7.2.5). *Hoppe Seyler's Z. Physiol. Chem.* **365**:938.
- Schwamberger, G., Flesch, I., and Ferber, E. 1987. Activation associated antigens of murine bone marrow macrophages. *Immunobiol.* **175**:377.
- Schwamberger, G., and Flesch, I. 1988. Characterization and partial purification of a high molecular weight tumorolytic activity of murine bone marrow macrophages. *Immunobiol.* **178**:26.
- Flesch, I., Schwamberger, G., and Kaufmann, S. H. E. 1988. Killing of Cryptococcus neoformans by activated murine bone marrow-derived macrophages. *Proceedings of the "Arbeitstagung 1988 der Deutschen Gesellschaft für Hygiene und Mikrobiologie, Hygiene-Institut Kiel"*.
- Flesch, I., Schwamberger, G., and Kaufmann, S. H. E. 1989. Expression patterns of macrophage activation associated antigens in response to recombinant cytokines and bacterial lipopolysaccharide. *Exp. Cell Biol.* **57**:95.
- Schwamberger, G., and Flesch, I. 1989. Characterization and partial purification of a high molecular weight tumorolytic activity secreted by murine bone marrow macrophages. Abstr. W100/67 of the 7th International Congress of Immunology, Berlin.
- Flesch, I., Schwamberger, G., and Kaufmann, S. H. E. 1989. Killing of Cryptococcus neoformans by activated murine bone marrow-derived macrophages. Abstr. W104/33 of the 7th International Congress of Immunology, Berlin.
- Schwamberger, G., Flesch, I., and Ferber, E. 1990. Characterization of a high molecular weight tumoricidal activity secreted by murine bone marrow macrophages. *Proceedings of "The Macrophage"* 1990 Annual conference of the Upper Rhine Universities. p.34.
- Weber, G., Schwamberger, G., and Ferber, E. 1991. A fast and sensitive method for detection of phospholipid-binding proteins. *Eur. J. Cell Biol.* **54**: Suppl. 32 No. 103C.
- Harwix, S., Andreesen, R., Ferber, E., and Schwamberger, G. 1991. Functional characterization of a secreted tumoricidal activity of human macrophages distinct from TNF- α . *Proceedings of "The Macrophage"* 1991 Annual conference of the Upper Rhine Universities. p.37.
- Schwamberger, G., Harwix, S., Ferber, E., and Andreesen, R. 1992. Human macrophages secrete a novel tumorselective cytotoxin distinct from but synergizing with tumor necrosis factor (TNF- α). *Proceedings of the Annual Conference of the American Association for Cancer Research, San Diego, USA*.
- Schwamberger, G., Harwix, S., Ferber, E., und Andreesen, R. 1993. Nachweis und Charakterisierung eines neuartigen tumorselektiven Cytotoxins humaner Makrophagen. *Med. Klin.* **88**: Suppl.2, 179 P C15. [\[Abstract\]](#)
- Schwamberger, G., Harwix, S., Ferber, E., and Andreesen, R. 1993. Human macrophages secrete a novel tumoricidal activity distinct from but synergizing with tumor necrosis factor (TNF) α . *J. Leukocyte Biol.* **53**: A 582 [\[Abstract\]](#)
- Schwamberger, G., Ferber, E., Freudenberg, M., and Galanos, C. 1994. Induction and preliminary characterization of a TNF-independent tumoricidal activity in sera of mice treated with P. acnes and challenged with LPS. *Eur. Cytokine Netw.* **5**:220. [\[Abstract\]](#)
- Schwamberger, G., Ferber, E., Freudenberg, M., and Galanos, C. 1995. Macrophage-Tumor-Cytotoxicity - Studies on the requirement of reactive nitrogen intermediates for destruction of TNF-resistant tumor cells by activated macrophages. *Proceedings of "The Macrophage"* 9th Annual Conference of the European Macrophage Study Group. p. 61. [\[Abstract\]](#)

Schwamberger, G., Hammerl, P., Ferber, E., Freudenberg, M., and Galanos, C. 1995. TNF induces secretion of a high molecular weight tumoricidal activity (MTC 170) in murine bone marrow macrophages. *Proceedings of "The Macrophage" 9th Annual Conference of the European Macrophage Study Group.* p. 62.

Reiter, I., Schwamberger, G., and Krammer, B. 1996. Studies on photodynamic activation of murine macrophages for tumor cytotoxicity. *Proceedings of the 6th Biennial Meeting of the International Photodynamic Association, Melbourne, Australia.*

Schwamberger, G., Hammerl, P., Ferber, E., Freudenberg, M., and Galanos, C. 1996. TNF- α induces secretion of a high molecular weight tumoricidal activity (MTC 170) in murine bone marrow-derived macrophages. *Eur. Cytokine Netw.* 7:307. [\[Abstract\]](#)

Schwamberger, G., Hammerl, P., Freudenberg, M., and Galanos, C. 1996. TNF- α mediates induction of a high molecular weight tumoricidal activity (MTC 170) in sera of mice pretreated with *P. acnes* or interferon- γ . *Eur. Cytokine Netw.* 7:291. [\[Abstract\]](#)

Reiter, I., Schwamberger, G., and Krammer, B. 1997. Activation of macrophage tumoricidal activity by photodynamic treatment in vitro. *Proceedings of the 7th Congress of the European Society for Photobiology, Stresa, Italy.*

Dallner, C., Freudenberg, M., Galanos, C., and Schwamberger, G. 1998. MTC 170-dependent antitumor activity of macrophages from i-NOS-deficient mice. *Proceedings of the 12th Conference of the European Macrophage Study Group.* A 028. [\[Abstract\]](#)

Reiter, I., Krammer, B., and Schwamberger, G. 1998. Differential effect of apoptotic and necrotic tumor cells on macrophage antitumor activities. *Proceedings of the 12th Conference of the European Macrophage Study Group.* A 090.

Reiter, I., Krammer, B., and Schwamberger, G. 1999. Differential effect of apoptotic and necrotic tumor cells on macrophage antitumor activities. *Proceedings of the 1999 Keystone Symposium on Macrophage Biology* A 313.

Reiter, I., and Schwamberger, G. 2000. Mode of tumor cell death in macrophage-mediated tumor cytotoxicity - apoptosis or necrosis ? *Proceedings of the 14th Conference of the European Macrophage Society.* p25. [\[Abstract\]](#)

Reiter, I., and Schwamberger, G. 2000. Effect of nitric oxide on the mode of tumor cell death in macrophage-mediated tumor cytotoxicity. *Proceedings of the 14th Conference of the European Macrophage Society.* p50. [\[Abstract\]](#)

Schwamberger, G., and Strack, H. B. 2002. Differential protein display by recombinant phage antibodies – A novel tool for identification of inducible macrophage proteins. *Proceedings of the 16th Conference of the European Macrophage and Dendritic Cell Society.* p31. [\[Abstract\]](#)

Schwamberger, G., Freudenberg, M., and Galanos, C. 2004. MTC 170 – A novel endogenous magic bullet against cancer. *Proceedings of the World Conference on Dosing of Antiinfectives and Antineoplastics.* A 489. [\[Abstract\]](#)

Vorträge:

Aktivierung und Effektorfunktionen von Makrophagen. 26-09-1988. Robert Koch Institut, Berlin, Germany.

Characterization and partial purification of a high molecular weight tumorolytic activity secreted by murine bone marrow macrophages. 02-05-1989. MPI f. Immunbiologie, Freiburg, Germany.

TNF-unabhängige Tumor-Cytotoxizität aktivierter Makrophagen. 06-07-1989. Knoll Pharma AG, Ludwigshafen, Germany.

Characterization of a secreted high molecular weight tumoricidal activity of murine macrophages distinct from TNF- α . 26-06-1990. BASF Bioresearch Corp., Cambridge, MA., USA.

Spezifische Zerstörung von Tumorzellen durch aktivierte Makrophagen. 11-05-1992. Institut für Molekularbiologie der Österreichischen Akademie der Wissenschaften, Salzburg, Austria.

Charakterisierung eines neuartigen tumorcytotoxischen Faktors aktivierter Makrophagen. 07-09-1992. Boehringer Mannheim AG, Abt. Immunpharmakologie, Mannheim, Germany.

Effektormechanismen der antitumoralen Aktivität muriner und humaner Makrophagen. 27-11-1992. Universitätsklinik Regensburg, Germany.

Makrophagen-Tumor-Cytotoxizität: Aktivierung und Effektormechanismen. 22-01-1993. Forschungsinstitut Borstel, Germany.

Human macrophages secrete a novel tumoricidal activity distinct from but synergizing with tumor necrosis factor (TNF) α . 04-12-1993. International Congress on the Regulation of Leukocyte Production and Immune Function, Sydney, Australia.

TNF- α mediates induction of a high molecular weight tumoricidal activity (MTC 170) in sera of mice pretreated with *P. acnes* or interferon- γ . 11-05-1996. 6th International TNF Congress, Rhodes, Greece.

Tumorabwehr durch das unspezifische Immunsystem - Eine alte Geschichte in neuem Licht. 18-11-1996. Universität Salzburg, Austria.

Körpereigene Tumorabwehr - Von der Grundlagenforschung zu neuen therapeutischen Perspektiven. 16-06-1998. Forschungs-Forum der Universität Salzburg, Austria.

Mechanismen der Makrophagen-vermittelten Tumorabwehr. 28-10-1999. Lecture in application for full professorship in Biochemistry at the University of Salzburg, Austria

Mode of tumor cell death in macrophage-mediated tumor cytotoxicity - apoptosis or necrosis ? 22-09-2000. 14th Conference of the European Macrophage Society. Krakow, Poland.

Tumorzelltod und körpereigene Tumorabwehrmechanismen. 28-11-2001. Institut für Radioonkologie und Radiotherapie, Landeskliniken Salzburg, Austria.

A novel endogenous magic bullet against cancer. 10-09-2004. Invited presentation at the World Conference on Dosing of Antiinfectives and Antineoplastics, Nürnberg, Germany.

The innate immune system as a sensing system for disease. 28-11-2006. Oncology Research Institute, Greenville, SC., USA.

Mechanisms of macrophage-mediated natural tumor defense. 11-12-2006. Oncology Research Institute, Greenville, SC., USA.

Mechanisms of macrophage-mediated natural tumor defense. 20-04-2007. Scripps Research Institute, La Jolla, CA., USA.

Patentanmeldungen:

Harwix, S., Andreesen, R. Mohrs, K., Ferber, E., Schwamberger, G. 1991. Substance with anti-tumour action produced from macrophages. *Appl. No.* PCT/EP92/01690. *Publ. No.* WO 93/02205. *Publ. Date* 04-02-1993. [\[pdf\]](#)

Wagner, T. E., Schwamberger, G., Yu, X., Wei, Y. Activation of nuclear factor kappa B. 2007. *Appl. No.* 12/149,086. *Publ. No.* US 2009/0081789 A1. *Publ. Date* 26-03-2009. [\[Volltext\]](#) [\[pdf\]](#)

Wagner, T. E., Schwamberger, G., Yu, X. 2007. Macrophage transfection method. *Appl. No.* 12/149,097. *Publ. No.* US 2009/0117658 A1. *Publ. Date* 07-05-2009. [\[Volltext\]](#) [\[pdf\]](#)

Schwamberger, G., Wagner, T. E. 2009. Vaccine compositions and methods of use. *Appl. No.* 12/610,964. *Publ. No.* US 2010/0111985 A1. *Publ. Date* 06-06-2010. [\[Volltext\]](#) [\[pdf\]](#)