

Anurag Kumar Gupta

Dept. Visceral Surgery & Transplantation
UniversitätsSpital Zürich
Rämistrasse, 100, 8091, Zürich
Anurag.Gupta@usz.ch

Professional appointments:

- **Project leader:** - Department of Visceral Surgery & Transplantation, University Hospital Zurich, Switzerland
 - **Research associate:** - Institute of experimental immunology, University of Zurich, Switzerland
 - **Senior postdoctoral fellow:** - Tumor Immunology Laboratory, University Hospital Zurich, Switzerland
 - **Postdoctoral fellow:** - Department of Biomedicine, University of Basel, Switzerland
 - **Junior research fellow:** - Jawaharlal Nehru University, New Delhi, India
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Education:

- **Ph.D.:** - University of Basel, Switzerland
 - **Master of Sciences (Life-Sciences):** - Faculty of Life-Sciences, Kanpur University, Kanpur, UP, India
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Publications:

1. Beffinger M, Montagnolo Y, **Gupta AK**, van den Broek M. CSF1R-dependent monocytes are required for NK-mediated control of metastasis. Under review Nat. Communications.
2. Surace L, ...**Gupta AK**, van den Broek M. Radiotherapy-induced complement activation is crucial to clinical efficacy. *Immunity*. 2015 Apr 21;42(4):767-77.
3. Surace L, Scheifinger N, **Gupta AK**, van den Broek M. Radiotherapy supports tumor-specific immunity by acute inflammation. 2015, *Oncoimmunology*. Jun; 5 (1):e 1060391.
4. **Gupta AK**, Giaglis S, Hasler P, Holzgreve W, Hahn S. Efficient neutrophil extracellular trap induction requires mobilization of both intracellular and extracellular calcium pools and is modulated by the calcineurin pathway. 2014. *PLoS One*. 2014 May 12;9 (5):e97088.
5. **Gupta AK**, Nuber N, Esslinger C, Wittenbrink M, et.al .A novel human-derived monoclonal antibody against NY-ESO-1 improves efficacy of chemotherapy. *Cancer immunity*; 2013: 13:3.
6. **Gupta AK**, Probst HC, Landshammer A, Vuong V, et.al. Radiotherapy promotes tumor-specific CD8+ T cells via DC activation. *The Journal of immunology*; 2012 ;189(2):558-66.
7. **Gupta AK**, Sharma A, von Boehmer L, Surace L, Knuth A, van den Broek M. Radiotherapy supports protective tumor-specific immunity. *Oncoimmunology*, 2012,1:9 1-2.
8. **Gupta AK**, Joshi M, Hasler P, Erne P, et.al. Activated endothelial cells induce neutrophil extracellular traps and are susceptible to NETosis-mediated cell death. *FEBS Lett*. 2010; 584(14):3193-7.
9. Zhong XY, von Mühlönen I, Li Y, Kang A, **Gupta AK**, et.al. Vast Amounts of Antibody-Bound Circulatory Cell Free DNA in Rheumatoid Arthritis. *Clin Chem* 2007 53: 1609-1614.
10. **Gupta AK**, Holzgreve W, Hahn S. Lipid depletion of syncytiotrophoblast micro-particles induces endothelial cell proliferation. 2007 *Arch Gynecol Obstet*.
11. **Gupta AK**, Holzgreve W, Hahn S. Neutrophil NETs: a novel contributor to preeclampsia-associated placental hypoxia; in "Immunopathology of Conception and Pregnancy". *Seminars in Immunopathology*, (2007); 29: 163-167.
12. Zhong XY, Holzgreve W, Gebhardt S, Hillermann R, Carelse Tofa K, **Gupta AK**, et.al. Minimal Alteration in the Ratio of Circulatory Fetal DNA to Fetal Corticotropin-Releasing Hormone mRNA Level in Preeclampsia. *Fetal Diagn Ther*. 2006; 21:246-249.

13. **Gupta AK**, Hasler P, Gebhardt S, Holzgreve W, Hahn S. Occurrence of neutrophil extracellular traps (NETs) in Pre-eclampsia: A link with elevated levels of cell-free DNA? *Ann. N.Y. Acad. Sci.* 2006; 1075: 118-122.
 14. Hahn S, **Gupta AK**, Troeger C, Rusterholz C, Holzgreve W. Disturbances in placental immunology: time for therapeutic interventions? *Spring Semin. Immunol.* 2006; 27:477-493.
 15. **Gupta AK**, Hasler P, Holzgreve W, Gebhardt S, Hahn S. Induction of neutrophil extracellular DNA lattices by placental microparticles and IL-8 and their presence in preeclampsia. *Hum Immunol.* 2005; 66: 1146-1154.
 16. **Gupta AK**, Holzgreve W, Hahn S. Microparticle-Free Placentally Derived Soluble Factors Downmodulate the Response of Activated T Cells. *Hum Immunol.* 2005; 66:977-984.
 17. **Gupta AK**, Rusterholz C, Holzgreve W, et al. Syncytiotrophoblast micro-particles do not induce apoptosis in peripheral T lymphocytes, but differ in their activity depending on the mode of preparation. *J Reprod Immunol.* 2005; 68:15-26.
 18. **Gupta AK**, Rusterholz C, Holzgreve W, Hahn S. Constant IFN γ mRNA to protein ratios in cord and adult blood T cells suggests regulation of IFN γ expression in cord blood T cells occurs at the transcriptional level. *Clin Exp Immunol.* 2005; 140:282-8.
 19. **Gupta AK**, Rusterholz C, Huppertz B, Malek A, Schneider H, Holzgreve W, Hahn S. A comparative study of the effect of three different syncytiotrophoblast micro-particles preparations on endothelial cells. *Placenta* 2005; 26:59-65.
 20. Rusterholz C, **Gupta AK**, Huppertz B, Holzgreve W, Hahn S. Soluble factors released by placental villous tissue: interleukin-1 is a potential mediator of endothelial dysfunction. *Am. J. Gyn. Obstet.* 2005; 192: 618-624.
 21. **Gupta AK**, Huppertz B, Malek A, Schneider H, Holzgreve W, Hahn S. Detection of fetal DNA and RNA in the placentally derived syncytiotrophoblast micro particles. *Clin Chem.* 2004 Nov; 50(11): 2187-2190.
 22. Li Y, Zimmermann B, Zhong XY, **Gupta AK**, Holzgreve W, Hahn S. Determination of RHD zygosity using real-time quantitative PCR. *SMW* 2003; 133:442-445.
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Other Professional activities:

Reviewing:

- Regular reviewer for Cancer immunity, *Frontiers in immunology*, *Placenta Journal*, *Journal of Reproductive Immunology*, *Annals of Surgery*, *British Journal of obstetrics and Gynaecology* and *Clinical Ophthalmology*, Grant reviewing for British Lung Foundation

Teaching:

- Immunology block course to master students of the University of Zurich and ETH Zurich, Switzerland
- Lectures to PhD students of cancer network Zurich on immunology and tumor immunology
- Assessment of data presentation of graduate students at the University Hospital Basel, Switzerland

Grants:

- Qualified CSIR-UGC NET. 5 Years` research fellowship from the Government of India
- Recipient of the research grant from the Roche Research foundation, Basel, Switzerland
- Independent research grant from Translation cancer research program of the University of Zurich
- Research grant "to study efficacy of combination therapies to treat cancer" from Roche Pharmaceuticals

Courses:

- "From molecule to medicine" course on conducting clinical trials from CTC Clinical Trial Consulting AG, Basel, Switzerland
- Certificate course in ICH-GCP