



Participant Profile

for the
Turkish-German Strategy Workshop 2006
TÜBİTAK Marmara Research Center,
Istanbul- Gebze Turkey
13 – 15 December 2006



International Bureau (IB)
of the Federal Ministry of
Education and Research
(BMBF)

1. Contact details and personal information

Name:	E.Marion Schneider	Phone:	+49-731-5006008081
Role/function¹:	Managing director	Fax:	+49-731-50026755
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Address:	Steinhoevelstr 9	Organisation type²:	University Clinic
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¹ **Role/function** e.g. working group leader, managing director, postdoc, PhD etc.

² **Organisation type** e.g. university, research institution, small and medium enterprise (SME), industry etc.

Working Group:	<input type="checkbox"/> 1 Material Technologies <input checked="" type="checkbox"/> 2 Biotechnology, Genomics and Food <input type="checkbox"/> 3 Energy <input type="checkbox"/> 4 Information and Communication Technologies <input type="checkbox"/> 5 Environmental Protection, Climate Change and Sustainable Development						
Areas of activity:	<table border="0"> <tr> <td>X research</td> <td>x training</td> </tr> <tr> <td>X technology development</td> <td>x dissemination</td> </tr> <tr> <td><input type="checkbox"/> demonstration</td> <td><input type="checkbox"/> other:</td> </tr> </table>	X research	x training	X technology development	x dissemination	<input type="checkbox"/> demonstration	<input type="checkbox"/> other:
X research	x training						
X technology development	x dissemination						
<input type="checkbox"/> demonstration	<input type="checkbox"/> other:						
Keywords characterising your area of research:	<p>Please choose the appropriate key words (max. 5) from the following list:</p> <p>http://www.cordis.lu/fp6/keywords</p> <p>01.02.01.11.00.00.00 Diagnostics 01.02.01.20.00.00.00 Haematology 01.02.01.23.00.00.00 Immunology 01.02.01.24.00.00.00 Infections 01.02.01.43.00.00.00 Rare diseases</p>						



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Expertise,
technologies and
infrastructures
available in your
institution:

Research activities / expertise: *cell biology on a single cell level, genotyping, mutation research, epidemiology, patients*

Methods: *cellular cytotoxicity (NK-) assays, life cell fluorescence microscopy, electron microscopy, genotyping by pyrosequencing, phagocytosis assays using novel dyes, protein arrays, autoimmune diagnostic arrays, expression analysis, clinical study coordinator*

Key technologies: *cellular assays, pyrosequencing, confocal scanning and life microscopy, flow cytometry, bead-assisted protein arrays*

Infrastructures: *Biotage sequencer, Array-Reader, Flow Cytometer, Confocal Laser Scanning Microscopy, Data Bank, Tissue Bank*

Key publications:

- **Schneider EM**, Vorlaender K, Ma X, Du, W, Weiss, M. Role of ATP in trauma associated cytokine release and apoptosis by P2X7 Ion channel stimulation. *Ann NY Acad Sci* 2006 in press.
- Borowski A, Dirksen U, Lixin L, Shi RL, Gobel U, **Schneider EM**. Structure and function of ETAA16: a novel cell surface antigen in Ewing's tumours. *Cancer Immunol Immunother*. 2005;1-12
- Horne AC, Zheng C, Lorenz I, Löfstedt M, Montgomery SM, Janka G, Henter JI, **Schneider EM**. Subtyping of natural killer cell cytotoxicity deficiencies in hemophagocytic lymphohistiocytosis provides therapeutic guidance. *Brit J Hematol* 2005, 129:658-666.
- **Schneider, EM**. Bullfight without killer weapons: interferon rules pathology in HLH. *Blood* 2004, 104(3): commentary.600 - 601.
- **JANKA GE, SCHNEIDER EM**. MODERN MANAGEMENT OF CHILDREN WITH HAEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS. *BRIT. J. HEMATOL* 2004, 124: 4-14.
- Pavlickova P, **Schneider EM**, Hug H: Advances in recombinant antibody microarrays. *Clin. Chim*. 2004, 343 (1-2): 17-35.
- Du W, Xu Z, Ma X, Song L, **Schneider EM**. Biochip as a potential platform of serological interferon a2b antibody. *J Biotechnol* 2003;106 (1):87-100.
- **Schneider EM**, Lorenz I, Walther P, Janka-Schaub, G E. Natural killer deficiency: a minor or major factor in the manifestation of hemophagocytic lymphohistiocytosis? *J Pediatr Hematol Oncol* 2003;25(9): 680-3.
- zur Stadt U, Kabisch H, Janka G, **Schneider EM**. Rapid LightCycler assay for screening of the codon 374 Trp->stop mutation in patients and families with hemophagocytic lymphohistiocytosis (FHLH). *Med Pediatr Oncol* 2003; 41(1): 26-9.
- **Schneider EM**, Lorenz I, Muller-Rosenberger M, Steinbach G, Kron M, Janka-Schaub GE. Hemophagocytic lymphohistiocytosis is associated with deficiencies of cellular cytolysis but normal expression of transcripts relevant to killer-cell-induced apoptosis. *Blood* 2002;100(8):2891-8.
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2. Past and present research collaborations

Are you familiar with the European Framework Programme?	<input checked="" type="checkbox"/> Yes <div style="float: right;"><input type="checkbox"/> No</div> <p><input checked="" type="checkbox"/> with Framework Programme 5 <input checked="" type="checkbox"/> with Framework Programme 6 <input type="checkbox"/> with Framework Programme 7</p>
EU-projects you are involved in: Past projects Present projects	Programme title / contract number / title / acronym / your function (coordinator / partner / contractor) Past projects FP5, Quality of Life and management of Living Resources QL2-CT-2000-60048), Lysyl-tRNA in diseaseproject leader, partner 5 Present projects FP6, PRIORITY LIFESCIHEALTH, LIFE SCIENCES, GENOMICS AND BIOTECHNOLOGY FOR HEALTH, LSHG-CT-2005-512155, Genetics of Sepsis in Europe, GenOSept, partner 10; FP6-2005-LIFESCIHEALTH-7, STREP IST-037293 : Quantitative Analysis of Genes in Single Cells (QuAGSiC)Project leader, partner 5, and Ethics coordinator
Other international collaborations:	Dr. Sasa Radoja, Washington St. Univ. Dept. Pediatrics, U.S.A Dr. V. Nanduri Watford General Hospital, UK Dr.D. Schaer, Internal Medicine, Zurich, Switzerland Dr. N. Grois Prof. H. Gardner St. Anna Kinderspital Wien, Austria Prof. J.-I. Henter, Karolinska Hospital, Stockholm Sweden Profs. Y. Salomon and A. Scheer, Weizmann Institute Rehovot, Israel Prof. S. Imashuku, Kyoto Institute of Health, Kyoto, Japan Prof. E. Kolioukas, Ippokraton Hospital, Thessaloniki, Greece Dr. Daniele Focosi, Pisa Pediatrics, Italy As well as more than 40 clinical centers sending patients material for diagnostics from Estonia, Poland, Tschech Republic , Italy, Austria, Bulgaria, Croatia, Turkey, The Netherlands, Great Britain, Sweden, Norway, Finland, and the U.S.
Name(s) and contact details of potential partners:	If you would like to suggest the participation of particular partners from the partner country based on existing contacts or collaboration experience, you are welcome to indicate their names and contact details below: Prof. M. Ertürk, Dept.Microbiology, merturk@hotmail.com Prof. E.Ovali, Dept. Hematology, eovali@superonline.com Prof. E.Erduran Pediatric Hematology, KTU, Trabzon, Turkey Tel;+90462-3775513, 5526 Colleagues via MT Dorak, Dept. Epidemiology, Univ. Alabama, Birmingham, AL, USA; Dorak@openlink.org

3. Presentation at the Workshop

I will give a presentation at the workshop (approx. 10 min.) to present my institution, my expertise, and my collaboration interests. The contents of my presentations is summarised below (max. 1 page).



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The Experimental Anesthesiology Section established a SNP based microarray to identify mitochondrial mutations using streptavidin activated surfaces on gold originally started in European Project (QLG2-CT-1999-00660 5FP program). Currently the chip is being transferred to a three-dimensional hydrogel surface by maintaining the fluorescence-based read-out system. This work is a collaborative effort between a SusTech, Darmstadt and our group.

An already established *cell*, *DNA* and *data* bank will be applied to search for novel SNP, related to alterations in expression analysis, function and clinical manifestation of life threatening infections. Patients suffering from non infectious hyperinflammatory diseases (histiocytoses; (www.histio.org)) support the search for relevant genes and polymorphisms complicating infectious diseases. The bank contains biological material, laboratory and clinical data of about 2000 individual patients' samples derived from ICU patients with sepsis and septic shock as well as non-infectious hyperinflammatory diseases. Flow cytometric analyses, ex-vivo stimulation protocols, plasma cytokines and cellular cytotoxicity assays have been determined to be correlated with genetic testings. Polymorphisms of the ATP receptor, P2X7, Toll-like-receptors 2 and 4, Perforin, and enzymes related to oxidative stress are determined by pyrosequencing technologies. In the current approach, these data constitute the matrix for the expansion of SNP typing and risk genotype identification. Extensive microarray based expression analysis will be a central element to be performed with the available as well as new material.

Marion Schneider, Professor at the University of Ulm; provides knowledge of immune interaction pathways leading to immune incompetence. She is involved in study coordination of Histiocytosis Diseases, new diagnostic marker profiles and has access to inflammatory diseases with severe infectious complications within Europe. Within the project she will coordinate the selection of SNPs to be included in chip-based genotyping. She is also responsible for microarrays in expression analysis to confirm the functional relevance of SNPs in a given genotype. In FP6 she represents the ethical coordinator in a STREP on Single Gene Counting (QuAGSiC) and contributes by a project on cell cell interactions of NK effectors and dendritic cells in healthy individuals as well as patients with HLH and defined genetic defects.

I agree with the publication of my data on the Workshop website!

PLEASE FILL IN THIS FORM UNTIL 22 SEPT. 2006 AND RETURN IT TO:

Internationales Buero des BMBF
s.krummacher@fz-juelich.de;
Christian.schache@dlr.de

TÜBITAK-Marmara Research Center
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