



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:	Sezen ARAT	Phone:	+90 262 6773351
Role/function¹:	Working group leader	Fax:	+90 262 6412309
Institution:	Institute for Genetic Engineering and Biotechnology	E-Mail:	Sezen.arat@mam.gov.tr
Department:	Animal Biotechnology Strategic Unit	Website:	
Address:	TUBITAK-MRC-IGEB Anibal street	Organisation type²:	Research institute
Postcode and City:	41470 Gebze/Kocaeli		

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:	<input checked="" type="checkbox"/> research <input checked="" type="checkbox"/> technology development <input type="checkbox"/> demonstration <input type="checkbox"/> training <input type="checkbox"/> dissemination <input type="checkbox"/> other:
Keywords characterising your area of research:	Please choose the appropriate key words (max. 5) from the following list: http://www.cordis.lu/fp6/keywords animal embryology, animal reproduction, animal genetic, genetically modified organism, cell biology
Expertise, technologies and infrastructures available in your institution:	Research activities / expertise: Reproductive biotechnology, animal cloning, embryo and cell preservation, transgenic animal production, embryonic stem cell culture and differentiation Methods: pronuclear DNA injection, transfection, nuclear transfer, In vitro maturasyon, in vitro culture, intrastoplasmic sperm injection Key technologies: transgenic animal production, mammalian cloning, embryonic stem cell, cryobiology, molecular biology Infrastructures: embryology laboratory, molecular biology laboratory, cryobiology equipments. Key publications: Arat S. (2005) Cloning and embryonic stem cell research in mammalian. J of Sci Tech 1(2);1-6. Tas A, Arat S, Dalcik H. (2005) . Induction of differentiation of mouse embryonic stem cell to neural cells. J of Sci Tech 1(2);56-60. Arat, S., Bagis H., Mercan Odaman H., Dinnyes A. (2005) Cloned embryos can be produced using donor cells obtained from 72-hour cooled carcass. Reprod Fertility Dev 17(1,2)164. Cetinkaya G., Arat S, Mercan Odaman H, Onur M.A., Tumer A. (2005).



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)

Culture of murine embryonic stem cells on NWPF discs..Reprod
Fertility Dev 17(1,2)235.

Arat, S., Rzucidlo SJ., Stice, SL. (2003). Gen expression and in-vitro
development of interspecies nuclear transfer embryos. Mol
Reprod Dev 66: 334-342

Arat, S., Rzucidlo SJ., Stice, SL (2003) Transgenic bovine nuclear transfer
embryos from adult somatic cel lines. Turk J Vet Anim Sci 27:
1097-1103.

Arat, S, Gibbons, J., Rzucidlo SJ., Respass DS, Tumlin M, Stice, SL.
(2002). In-vitro development of bovine nuclear transfer embryos from
clonal lines of transgenic

Arat, S, Gibbons, J., Rzucidlo SJ., Respass DS, Tumlin M, Stice, SL.
(2002). In-vitro development of bovine nuclear transfer
embryos from clonal lines of transgenic adult and fetal
fibroblast cells of the same genotype. Biol Reprod 66: 1768-
1774. (**A tipi dergi**)

Gibbons, J., **Arat S.,** Rzucidlo SJ., Waltenburg R., Respass D.S., Venable
A.M., Stice, SL.(2002). Enhanced survivability of cloned
calves derived from roscovitine-treated adult somatic cells. Biol
Reprod 66: 895-900. (**A tipi dergi**)



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)

2. Past and present research collaborations

Are you familiar with the European Framework Programme?

<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> with Framework Programme 5 <input type="checkbox"/> with Framework Programme 6 <input type="checkbox"/> with Framework Programme 7	

EU-projects you are involved in:
Past projects

Programme title / contract number / title / acronym / your function (coordinator / partner / contractor)

Present projects

Other international collaborations:

Hungarian Academy of Science, Hungary, Georgia University, Animal Science Department, USA, Bulgarian Academy of Science,

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:
Dr. Andras Dinnyes, Dr. Steve Stice

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).

Our institute (IGEB) has 4 stratejik work units.

1. Animal Biotechnology
2. Medical Biotechnology
3. Plant Biotechnology
4. Microbial Biotechnology

Animal Biotechnology Strategic Work Unit has 3 laboratories

1. Hybridoma (diagnosis, mono and polyclonal antibody production, biosensor,)
2. Spectroscopy laboratory (florescent prob production for diagnosis)
3. Transgenic and Laboratory Animal unit (has 2000 different strain lab mouse, rat etc, works on moleculer biology, animal genetic, reproductive biotechnolgy)

My laboratory have been working on reproductive biotechnology, transgenic animal production for almost 15 years. We have several Project on transgenic animal production like HBV transgenic mouse or transgenic mouse producing human protein in their milk. I have also been working on livestock animal cloning for 7 years. I work on cloning of anatolian grey cow. I am also PI of the Project on establishment of national gene banks of domestic anatolian livestock breeds.

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:



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)

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

TÜBİTAK-Marmara Research Center
Sunullah.Ozbek@mam.gov.tr;
Artac.Turker@mam.gov.tr