

CURRICULUM VITAE

Personal Data

Tanja Kostić

Born on June, 27th 1980 in Rijeka (Croatia)

Austrian "Daueraufenthalt-EG" (freier Zugang zum Arbeitsmarkt)

Contact information

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Education

2003 – 2006 PhD studies (food- and biotechnology) at the University of Natural Resources and Applied Life Sciences in Vienna (Austria)
PhD thesis: "Development of the microbial microarrays for environmental applications"

1998 – 2003 master studies (microbiology) at the Karl-Franzes-Universität in Graz (Austria)
diploma thesis: "Influence of endotoxine on the immune system: comparison of reaction by exposed versus unexposed subjects"

Employment record

2010 – present research scientist at the AIT Austrian Institute of Technology GmbH

2006 – 2009 PostDoc at the AIT Austrian Institute of Technology GmbH (Christian-Doppler Laboratory for Molecularbiological Food Analysis (CD-MOFA))

2003 – 2006 PhD student at the AIT Austrian Institute of Technology GmbH

Language skills

Croatian:	native
German:	fluent
English:	fluent
	1995 First Certificate in English (Reference No. 956HR0030009))
	1996 Certificate in Advanced English (Reference No. 966HR0035011)
	1997 Certificate of Proficiency in English (Reference No. 976HR0038012)

Additional experience

2012/13	Erwin-Schrödinger Fellowship (Austrian Science Fund (FWF)) – research sabbatical at Michigan State University, USA (Dr. Hashsham's lab), 20.02.2012 – 19.02.2013.
2010	Project Management – basic course, SPC, Vienna
2009	Short-term scientific mission "RT-PCR based detection and quantification of pathogens" (HPA CEPR, Porton Down, UK, November 16 – 27); STSM grant obtained from COST Action B28
2009	EMBO practical course on Analysis and Informatics of Microarray Data (EBI-EMBL, Hinxton, UK, October 12 – 17)
2009	Microbial Diagnostic Microarray Workshop (AIT, Seibersdorf, Austria, October 5 – 9) – organizer and tutor
2009	Real-Time PCR training, Applied Biosystems
2008	Project "Writing Scientific English: A Workbook" by Tim Skern, Facultas Verlag, Austria
2008	BSL3 training school, Institute of Virology, University Medicine, Göttingen (organised by COST B28)
2007	Local organiser of the COST B28 meeting in Vienna, Austria
2005	Project "Coffee House Notes on Virology" by Tim Skern, Facultas Verlag, Austria

Publications – peer reviewed

- 2013 Gensberger E.T., A. Sessitsch, **T. Kostić**: Propidium monoazide qPCR for viable *E. coli* and *P. aeruginosa* detection from abundant background microflora. *Analytical Biochemistry* 441 (2013) 69-72
- 2013 Gensberger E.T. and **T. Kostić**: Novel tools for environmental virology. *Current Opinion in Virology* 3 (2013) 61-68
- 2012 **Kostić T.** and A. Sessitsch: Microbial diagnostic microarrays for the detection and typing of food- and water-borne (bacterial) pathogens. *Microarrays* 1 (2012) 3-24
- 2011 Freidl G., G. Stalder, **T. Kostić**, A. Sessitsch, C. Beiglböck, C. Walzer: Verocytotoxin-producing *Escherichia coli* in chamois (*Rupicapra rupicapra*) and cattle in Austria. *Journal of Wildlife Diseases* 47 (2011) 704-708
- 2011 **Kostić T.**, B. Stessl, M. Wagner, A. Sessitsch: Microarray analysis reveals the actual specificity of enrichment media used for food safety assessment. *Journal of Food Protection* 74 (2011) 1030-1034
- 2010 **Kostić T.**, B. Stessl, M. Wagner, A. Sessitsch, L. Bodrossy: Microbial diagnostic microarray for food- and waterborne pathogens. *Microbial Biotechnology* 3 (2010) 444-454
- 2007 **Kostić T.**, A. Weilharter; S. Rubino, G. Delogu, S. Uzzau, K. Rudi, A. Sessitsch, L. Bodrossy: A microbial diagnostic microarray technique for the sensitive detection and identification of pathogenic bacteria in a background of non-pathogens. *Analytical Biochemistry* 360 (2007) 244-254
- 2006 Sessitsch A., E. Hackl, P. Wenzl, A. Kilian, **T. Kostić**, N. Stralis-Pavese, B. Tankouo Sandjong, L. Bodrossy: Diagnostic microbial microarrays in soil ecology. *New Phytologist* 171 (2006) 719-735
- 2005 **Kostić T.**, A. Weilharter, A. Sessitsch, L. Bodrossy: High-sensitivity, polymerase chain reaction-free detection of microorganisms and their functional genes using 70-mer oligonucleotide microarray. *Analytical Biochemistry* 346 (2005) 333-335

Publications - other

- 2014 **T. Kostić**: Microbial diagnostic microarrays for detection and typing of water-borne pathogens. (in *Microarrays: Current Technology, Innovations and Applications*; Zhili He (ed.); Caister Academic Press, 2014)
- 2012 Bhaduri P., R.D. Stedtfeld, S. Srinivasan, **T. Kostić**, A.B. Herzog, M.R. Kronlein, T. Stedtfeld, Y.-C. Liu and S.A. Hashsham. Detection and Occurrence of Indicator Organisms and Pathogens. *Water Environmental Research, 2012 Literature Review*, 84 (2012) 786-813

- 2009 Schrenzel J., **T. Kostić**, L. Bodrossy and P. Francois. Introduction on Microarray-based Detection Methods. (in Detection of Highly Dangerous Pathogens – Microarray Methods for BSL 3 and BSL 4 Agents; **T. Kostić**, P. Butaye and J. Schrenzel (Eds.); Wiley-VCH, Weinheim, 2009)
- 2009 **Kostić T.** and L. Bodrossy. Sequence specific end labelling of oligonucleotides (SSELO). (in Detection of Highly Dangerous Pathogens – Microarray Methods for BSL 3 and BSL 4 Agents; **T. Kostić**, P. Butaye and J. Schrenzel (Eds.); Wiley-VCH, Weinheim, 2009)
- 2009 **Kostić T.** and L. Bodrossy. Long-oligonucleotide microarray-based microbial detection, (in Detection of Highly Dangerous Pathogens – Microarray Methods for BSL 3 and BSL 4 Agents; **T. Kostić**, P. Butaye and J. Schrenzel (Eds.); Wiley-VCH, Weinheim, 2009)
- 2008 **Kostić T.**, P. Francois, L. Bodrossy and J. Schrenzel: Oligonucleotide and DNA Microarrays: Versatile Tools for Rapid Bacterial Diagnostics (in Principles of Bacterial Detection: Biosensors, Recognition Receptors and Microsystems; Zourob, Mohammed; Elwary, Souna; Turner, Anthony (Eds.); Springer New York, 2008)

Conference proceedings

- 2011 12. Fachsymposium Lebensmittelmikrobiologie, Ostseebad Damp, Germany (May 4 – 6) – accepted talk: **T. Kostić**, B. Stessl, M. Wagner and A. Sessitsch: Microbial diagnostic microarray for food safety assessment: evaluation study.
- 2010 International Conference Water Contamination Emergencies: monitoring, understanding, acting, Mülheim-an-der-Ruhr, Germany (October 11 – 13) – accepted poster: **T. Kostić**, M. Czetina, I. Fritz, C. Fuchsluger, P. Kinner, M. Konrad-Köszler and A. Sessitsch: Development and evaluation of molecular methods for microbial water quality assessment.
- 2010 ÖGMBT annual meeting 2010, Vienna, Austria (September 27 – 29) – accepted posters:
T. Kostić, B. Stessl, M. Wagner and A. Sessitsch: Microarray analysis reveals the actual specificity of enrichment media used for food safety assessment.
T. Kostić, A. Sessitsch and L. Bodrossy: Microarrays for molecular detection and typing of microorganisms.
T. Kostić, M. Czetina, I. Fritz, C. Fuchsluger, P. Kinner, M. Konrad-Köszler and A. Sessitsch: Development and evaluation of molecular methods for microbial water quality assessment.
- 2010 22nd International ICFMH Symposium FoodMicro 2010, Copenhagen, Denmark (August 30 – September 3) – accepted poster: **T. Kostić**, B. Stessl, M. Wagner and A. Sessitsch: Microarray analysis reveals the actual specificity of enrichment media used for food safety assessment.

- 2010 Advances in Microarray Technology, Dublin, Ireland (May 25 – 26) – accepted poster: **T. Kostić**, A. Sessitsch and L. Bodrossy Microarrays for molecular detection and typing of microorganisms.
- 2010 32nd Annual Meeting of the Austrian Society for Hygiene, Microbiology and Preventive Medicine (ÖGHMP), Vienna, Austria (May 17 – 20) – accepted talk: **T. Kostić**, B. Stessl, M. Wagner and A. Sessitsch: Detection of foodborne pathogens using universal pathogen microarray.
- 2010 COST B28 meeting, Istanbul, Turkey (May 3 – 6) – accepted talk: **T. Kostić**, B. Stessl, M. Wagner, A. Sessitsch: "AIT pathogen array": performance study for food analysis application"
- 2010 Rapid Methods Europe 2010, Noordwijkerhout, The Netherlands (January 25 – 27) - invited talk: **T. Kostić**, P. Butaye, J. Schrenzel: "Microarray technologies for detection and typing of pathogens"
- 2009 Interational Meeting on Emerging Diseases and Surveillance (IMED 2009), Vienna, Austria (February 13 – 16) - accepted poster: L. Bodrossy, E. Hackl, **T. Kostić**, A. Sessitsch: "ARC Microbial Diagnostic Microarrays for Environmental and Food Analysis"
- 2009 Rapid Methods Europe 2009, Noordwijkerhout, The Netherlands (January 26 – 28) - accepted poster: **T. Kostić**, S. Beatrix, M. Wagner, A. Sessitsch and L. Bodrossy: "Sensitive microarray-based detection of pathogenic bacteria"
- 2008 ERA-NET PathoGenoMics Partnering Workshop, Barcelona, Spain (January 21) – accepted talk: "ARC microbial diagnostic microarrays for environmental and food analysis"
- 2007 Austrian Society of Biotechnology (ÖGBT) annual meeting, Graz, Austria (November 15 – 16) – invited talk: **T. Kostić**, A. Sessitsch, L. Bodrossy "Microbial diagnostic microarrays (MDMs): approaches and applications"
- 2007 Trans-COST ARRAY meeting: Advanced Research Results using Array technology, Sant Feliu de Guixols, Spain (May 22 – 24) – accepted talk: "Development and validation of a microbial diagnostic microarray for detection and identification of waterborne pathogens and indicator organisms"
- 2006 COST B28 meeting, Antalya, Turkey (October 1 – 3) – talk: "Sensitive detection of pathogenic bacteria using novel gyrB based microbial diagnostic microarray"
- 2006 11th International Symposium on Microbial Ecology (ISME), Vienna, Austria (August 20 – 25) – accepted talk: "A microbial diagnostic microarray technique for the detection and identification of pathogenic bacteria"
- 2006 2nd FEMS Congress of European Microbiologists, Madrid, Spain (July 4 – 8) – accepted poster: "High sensitivity, PCR-free detection of microorganisms and their functional genes using 70mer oligonucleotide diagnostic microarray"
- 2006 COST853 meeting, Wageningen, The Netherlands (June 19 – 20) – accepted talk: "Development and evaluation of gyrB DNA microarray for detection of and Identification of pathogenic bacteria"

Patents

2007 Title: Set of oligonucleotides
International publication number: WO/2007/115344
Applicant: Austrian Research Centers GmbH - ARC
Inventors: A. Sessitsch, L. Bodrossy, **T. Kostić** and A. Weilharter

Student supervision

2011/2014 Eva-Theres Gensberger: Development and evaluation of molecular assays for microbial water quality assessment. Technical University Vienna, PhD thesis (08/2014)

2012 Eva-Maria Goessl: Evaluation of different cultivation conditions for the detection of bacterial diversity in water. FH Wiener Neustadt – Campus Tulln, Masterstudiengang Biotechnische Verfahren, Master's thesis (08/2012)

2011/2012 Theresa Tiefenbach: Optimization of PCR for microarray-based pathogen detection. Technical University Vienna. Master's thesis (06/2012)

2010 Christian Gröger: Optimization of the "AIT pathogen array" for a high throughput analysis. Fachhochschule Campus Wien, Bachelorstudiengang Molekulare Biotechnologie. 2. Bachelor Arbeit (06/2010)

2009/2010 Gudrun Freidl: Enterohemorrhagic *E. coli* in cattle and chamois (*Rupicapra rupicapra*) - A Survey of a Zoonotic Pathogen at the Wildlife - Livestock Interface. University of Veterinary Medicine Vienna, Research Institute of Wildlife Ecology. Diploma thesis (03/2010)