

Curriculum Vitae

Name Neeme Tõnisson
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Institution and positions held

2005 - ... University of Tartu, Faculty of Biology and Geography, Institute of Molecular and Cell Biology; senior researcher
2003 - ... Asper Biotech, Ltd, senior researcher, 2005 - ... scientific consultant
2004 - 2006 German Cancer Research Centre (DKFZ), Heidelberg, Germany, visiting scientist
2004 - 2004 University of Tartu, Faculty of Biology and Geography, Institute of Molecular and Cell Biology, extraordinary scientist (group of Prof. Maris Laan)
2001 - 2002 instructor at the European Science Foundation course "APEX on DNA microarrays"
2001 - 2002 Asper Biotech Ltd., Tartu Director of Genotyping Applications
1999 - 2001 Asper Biotech Ltd., Tartu, scientist
1997 - ... instructor of practical works in Molecular Biotechnology,
1995 - 1996 Women's Clinic of Tartu University Clinics, IVF lab member
1992 - 1995 Dept. of Vascular Surgery, Tartu University Clinics, medical nurse

Education

1995 - 2000 Medical Faculty, University of Tartu, doctoral student
1989 - 1995 University of Tartu, medical student
1989 15th Secondary School of Tartu

Academic degrees

2003 Doctoral degree, (supervisor) Andres Metspalu, 'Mutation detection by primer extension on oligonucleotide microarrays', University of Tartu, Faculty of Biology and Geography, Institute of Molecular and Cell Biology

Administrative Responsibilities

2006 - ... Estonian Science Foundation, member of Expert Commission of Health
2000 - ... Estonian Society of Human Genetics, member
2000 development of Estonian Genome Project, member of expert group

Scientific fellowships

2004 Roman Herzog Research Fellowship, Alexander von Humboldt Foundation / Hertie Foundation
2007 Return Fellowship, Alexander von Humboldt Foundation / Hertie Foundation

Publications

Patsalis, P.C.; Kousoulidou, L.; Männik, K.; Sismani, C.; Žilina, O.; Parkel, S.; Puusepp, H.; Tõnisson, N.; Palta, P.; Remm, M.; Kurg, A. Detection of small genomic imbalances using microarray-based multiplex amplifiable probe hybridization. *Eur J Hum Genet.* 2007 Feb;15(2):162-72. Epub 2006 Nov 22.

Kringen, P.; Bergamaschi, A.; Due, EU.; Wang, Y.; Tagliabue, E.; Nesland, JM.; Ahman, A.; Tonisson, N.; Borresen-Dale, AL. (2005). Evaluation of arrayed primer extension for TP53 mutation detection in breast and ovarian carcinomas. *Biotechniques*, 39(5), 755 - 761.

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Dawson, E.; Abecasis, GR.; Bumpstead, S.; Chen, Y.; Hunt, S.; Beare, DM.; Pabial, J.; Dibling, T.; Tinsley, E.; Kirby, S.; Carter, D.; Papaspyridonos, M.; Livingstone, S.; Ganske, R.; Lohmussaar, E.; Zernant, J.; Tonisson, N.; Remm, M.; Magi, R.; Puurand, T.; Vilo, J.; Kurg, A.; Rice, K.; Deloukas, P.; Mott, R.; Metspalu, A.; Bentley, D.R.; Cardon, L.R.; Dunham, I. (2002). A first-generation linkage disequilibrium map of human chromosome 22. *Nature*, 418(6897), 544 - 548.

Gemignani, F.; Perra, C.; Landi, S.; Canzian, F.; Kurg, A.; Tonisson, N.; Galanello, R.; Cao, A.; Metspalu, A.; Romeo, G. (2002). Reliable detection of beta-thalassemia and G6PD mutations by a DNA microarray. *Clinical Chemistry*, 48(11), 2051 - 2054.

Tonisson, N.; Zernant, J.; Kurg, A.; Pavel, H.; Slavin, G.; Roomere, H.; Meiel, A.; Hainaut, P.; Metspalu, A. (2002). Evaluating the arrayed primer extension resequencing assay of TP53 tumor suppressor gene. *Proceedings of the National Academy of Sciences of the United States of America*, 99(8), 5503 - 5508.

Annilo, T.; Klaassen, T.; Kurg, A.; Lillväli, H.; Pata, I.; Rebane, A.; Sibul, H.; Teder, M.; Tõnisson, N. (2000). Molekulaarse biotehnoloogia praktikumi juhend.

Tõnisson, N.; Kurg, A.; Lõhmussaar, E.; Metspalu, A. (2000). Arrayed Primer Extension on the DNA chip method and applications. Schena, Mark (Toim.). *Microarray Biochip Technology* (247 - 263). Natic: Eaton Publishing Company/Biotechniques Books

Kurg, A.; Tonisson, N.; Georgiou, I.; Shumaker, J.; Tollett, J.; Metspalu, A. (2000). Arrayed primer extension: Solid-phase four-color DNA resequencing and mutation detection technology. *Genetic Testing*, 4(1), 1 - 7.

Tonisson, N.; Kurg, A.; Kaasik, K.; Lohmussaar, E.; Metspalu, A. (2000). Unravelling genetic data by arrayed primer extension. *Clinical Chemistry and Laboratory Medicine*, 38(2), 165 - 170.

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Metspalu, A.; Saulep, H.; Kurg, A.; Tõnisson, N.; Shumaker, J. M. (1998). Primer extension from two-dimensional oligonucleotide grids for DNA sequence analysis. In: Genomics : commercial opportunities from a scientific revolution: Society of Chemical Industry (SCI) Conference; Cambridge, UK; 30.06.-02.07.1997. (Toim.) Dixon, G.K.; Copping, L.G.; Livingstone, D.. Oxford: BIOS Scientific Publishers, 1998, 217 - 219.

Patents

International patent application: Method for optimising the sequences of synthetic nucleic acids; Owner: Asper Biotech, Ltd; Authors: Neeme Tõnisson, Pavel, H.; Tõnisson, N.; Zernant, J.; Priority document: PCT/EE00/00003; Priority date: 24.11.2000