

Nazan Saner, PhD

Cell Biology and Proteomics Lab
Molecular Biology and Genetics Department, Koç University
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EDUCATION:

- 09.2006 – 06.2011 **PhD, Life Sciences, University of Dundee, Dundee, UK**
Thesis: Live-cell analyses reveal organization of replication factories
Thesis advisor: Prof Tomoyuki Tanaka
- 02.2003 – 02.2006 **MSc, Molecular Biology and Genetics, Boğaziçi University, İstanbul, TURKEY**
Thesis: Spinocerebellar Ataxias 8, 12 and 14 in Turkey: Molecular Bases and Genetic Analyses.
Thesis advisor: Prof A. Nazlı Başak
- 09.1997 – 02.2003 **BSc, Molecular Biology and Genetics, Boğaziçi University, İstanbul, TURKEY**

RESEARCH EXPERIENCE:

- 01.2015 – present **Post-doctoral research in Dr. Nurhan Özlü's Lab**
Cell Biology and Proteomics Lab
Molecular Biology and Genetics Department, Koç University, İstanbul, TURKEY
Project: Analysis of biochemical changes at cell surface during epithelial-mesenchymal transition.
- 11.2011 – 10.2013 **Post-doctoral research in Prof Tomoyuki Tanaka's Lab.**
06.2011 – 07.2011 Centre for Gene Regulation and Expression
College of Life Sciences, University of Dundee, Dundee, UK
Project: Quantitative single-cell analysis of replication.
- 09.2006 – 06.2011 **Doctoral research: Wellcome Trust 4-Year PhD Programme**
College of Life Sciences, University of Dundee, Dundee, UK
- 07.2007 – 06.2011 Prof Tomoyuki Tanaka's Lab, Centre for Gene Regulation and Expression.
PhD Project: Live-cell analyses reveal organization of replication factories.
- 04.2007 – 07.2007 Prof Jason Swedlow's Lab, Centre for Gene Regulation and Expression.
(in collaboration with Prof Kate Storey, Division of Cell and Developmental Biology)
Rotation Project: The Localisation of Centrosomal Markers in Chicken Cell Culture and Neuroepithelium.
- 01.2007 – 04.2007 Prof Tomoyuki Tanaka's Lab, Centre for Gene Regulation and Expression.
Rotation Project: Regulators of chromosome replication and segregation in *S.cerevisiae*: Microscopic analysis of Mcm4 and Rad61.

- 09.2006 – 12.2006 Prof Grahame Hardie's Lab, Division of Molecular Physiology.
Rotation Project: A study on potential interactions between AMPK α 1 subunit and CaMKK β .
- 02.2006 – 07.2006 **Research in Suna & İnan Kırac Foundation, Neurodegeneration Research Lab.**
Prof A. Nazlı Başak, Molecular Biology and Genetics Department
Boğaziçi University, İstanbul, TURKEY
Project: Molecular diagnosis of Spinocerebellar Ataxias 8, 12 and 14 in Turkey.
- 02.2003 – 02.2006 **Master Research in Prof A. Nazlı Başak's Lab.**
Molecular Biology and Genetics Department
Boğaziçi University, İstanbul, TURKEY
Master Project: Spinocerebellar Ataxias 8, 12 and 14 in Turkey: Molecular Bases and Genetic Analyses.
- 07.2005 – 09.2005 **Research Internship in Prof Angus Lamond's Lab.**
Centre for Gene Regulation and Expression, College of Life Sciences.
University of Dundee, Dundee, UK
Project: Analysis of PP1 isoforms and targeting subunits in mammalian tissues.
- 10.2002 – 01.2003 **Research project in Prof A. Nazlı Başak's Lab.**
Molecular Biology and Genetics Department
Boğaziçi University, İstanbul, TURKEY
Project: Molecular diagnosis of polyglutamine diseases in Turkey.

PEER-REVIEWED INTERNATIONAL JOURNAL ARTICLES

- Hawkins M, Retkute R, Müller CA, **Saner N**, Tanaka TU, de Moura APS, Nieduszynski CA. 2013. High-resolution replication profiles define the stochastic nature of genome replication initiation and termination. *Cell Reports*. 5:1132-1141. <http://dx.doi.org/10.1016/j.celrep.2013.10.014>
 - ***Saner N**, Karschau J, Natsume T, Gierliński M, Retkute R, Hawkins M, Nieduszynski CA, Blow JJ, de Moura APS and Tanaka TU. 2013. Stochastic association of neighboring replicons creates replication factories in budding yeast. *Journal of Cell Biology*. 202:1001-1012. <http://dx.doi.org/10.1083/jcb.201306143>.
- *Paper is highlighted by Short, B. 2013. Determining the replication factory settings. *Journal of Cell Biology*. 202:986. <http://dx.doi.org/10.1083/jcb.2027iti1>
- Fogarty S, Hawley SA, Green KA, **Saner N**, Mustard KJ and Hardie DG. 2010. Calmodulin-dependent protein kinase kinase- β activates AMPK without forming a stable complex: synergistic effects of Ca²⁺ and AMP. *Biochemical Journal*. 426:109-118. <http://dx.doi.org/10.1042/BJ20091372>.

SELECTED MEETINGS AND INVITED TALKS

- 'Stochastic association of neighboring replicons creates replication factories in budding yeast.' 29 August 2013. Koç University, İstanbul, Turkey (Invited talk).
- Saner N**, Karschau J, Natsume T, Gierliński M, Retkute R, Hawkins M, Nieduszynski CA, Blow JJ, de Moura APS and Tanaka TU. 'Organization of individual replicons within replication factories revealed by quantitative single-cell analyses.' Meeting of Chromatin, Replication and Chromosomal Stability. 17-19 June 2013, Copenhagen, Denmark (abstract was selected for oral presentation, poster presentation).

3. **Saner N**, Karschau J, Natsume T, Gierliński M, Retkute R, Hawkins M, Nieduszynski CA, Blow JJ, de Moura APS and Tanaka TU. 'Organization of individual replicons within replication factories revealed by quantitative single-cell analyses.' 2nd Systems Biology Symposium. 29 March 2013, Universities of Aberdeen and Dundee, UK (abstract was selected for oral presentation).
4. **Saner N**, Natsume T, Karschau J, Gierliński M, Retkute R, Hawkins M, Nieduszynski CA, Blow JJ, de Moura APS and Tanaka TU. 'Live-cell and super-resolution imaging reveal how individual replicons organize replication factories.' Annual Symposium of Centre for Gene Regulation and Expression. 2 November 2012, University of Dundee, UK (oral presentation).
5. **Saner N**, Natsume T, Gierliński M, Blow JJ and Tanaka TU. 'Live-cell analyses reveal organization of replication factories.' Joint Meeting of the British Societies for Cell Biology, Developmental Biology and the Japanese Society for Developmental Biologists, Spring Conference. 15-18 April 2012, Warwick University, UK (poster presentation).
6. **Saner N**, Natsume T, Gierliński M, Blow JJ and Tanaka TU. 'Live-cell analyses reveal how multiple replicons are processed for replication at individual factories.' 75th Symposium: Nuclear Organization & Function. 2-7 June 2010, Cold Spring Harbor Laboratory, NY, USA (poster presentation).
7. **Saner N**, Natsume T, Gierliński M, Blow JJ and Tanaka TU. 'Live-cell analyses reveal organization of replication factories.' Inaugural PhD Symposium. 12-13 May 2010, University of Dundee, UK (abstract was selected for student talk).

TEACHING ACTIVITIES

02.2003 – 06.2005 Teaching assistant – Molecular Biology and Genetics Department,
Boğaziçi University, İstanbul, TURKEY