

CURRICULUM VITAE

Assoc. Prof. Nesrin Özören

Date of Birth: July 25, 1972
Place of Birth: Paisievo (Silistra district), Bulgaria
Nationality: Turkish

Work Address: Boğaziçi University
Department of Molecular Biology and Genetics
KPB-312
34342 Bebek-Istanbul
Turkey

Tel: + 90 212 359 7558
Fax: + 90 212 287 2468
E-mail: nesrin.ozoren@boun.edu.tr

Education:

1990-1995 **Degree: Bachelor of Science**
Boğaziçi University, Istanbul-Turkey
Department of Molecular Biology and Genetics

1996-2002 **Degree: Doctor of Philosophy**
University of Pennsylvania (UPENN), Philadelphia-USA
Department of Biology

Thesis advisor: Wafik S. El-Deiry, M.D. Ph.D. (UPENN-Medical School)

Thesis title: "Involvement of TRAIL-Death Receptors in Human Tumorigenesis and Mechanisms of TRAIL-Induced Apoptosis Signaling"

Post-doctoral training:

7/2002-6/2005 University of Michigan (UMICH), Ann Arbor-Michigan, USA
Department of Pathology

Advisor: Gabriel Núñez, M.D.

Project 1: "Determination of the Physiological Function of the New BCL-2 Family Member BFK"

Project 2: "Determination of the Roles of ASC and Cryopyrin in the Novel Cytosolic Pathogen Recognition Pathway of the Innate Immune System Using Knock-out Mice"

Academic Positions:

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| 8/2005- 8/2008 | Assistant Professor Boğaziçi University Department of Molecular Biology and Genetics Group Leader: Apoptosis and Cancer Immunology Laboratory |
| 8/2008- ... | Associate Professor Boğaziçi University Department of Molecular Biology and Genetics Group Leader: Apoptosis and Cancer Immunology Laboratory |

Administrative Positions:

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| 2008-2010 | Faculty of Arts and Sciences Executive Committee Assoc. Prof. Representative |
| 2010... | Boğaziçi University Research Policies Advising Committee Member |
| 2010-... | Boğaziçi University Center for Life Sciences and Technologies Founder and Executive Committee Member |
| 2012-... | Boğaziçi University Center for Life Sciences and Technologies Vice-Director |
| 2012-... | Animal Facility-VİVARİUM Coordinator |

Awards:

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| 1999 | American Association for Cancer Research-AACR Janssen Research Foundation Young Investigator Award |
| 2006 | Turkish Academy of Sciences- Outstanding Young Scientist Award (TÜBA-GEBİP) |
| 2006 | European Molecular Biology Organization-Young Investigator Programme-Strategic Development and Integration Grant (EMBO-YIP-SDIG) |
| 2007 | Oriflame Turkey- 2006 Most Successful Woman Scientist Award |
| 2009 | Boğaziçi University Encouragement Award |
| 2014 | Boğaziçi University Encouragement Award |

Memberships in Scientific Organizations:

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| 1999-2010 | American Association for Cancer Research Associate Member |
| 2010-... | Member |
| 2009-... | Turkish Immunology Society |
| 2010-.. | International Cell Death Society |
| 2010-... | HÖAD (Hücre Ölümü Araştırma Derneği), Founding Member |
| 2011-... | Molecular Biology Association of Turkey, Founding Member, Vice-President (7/2011-7/2014) President (7/2014-.... .) |
| 2014-... | Turkish Biochemistry Society, Member |

Editorial Contribution and Participation in the Reviewing Process:

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| 2009-... | Editorial Board Member, Cancer Biology and Therapy |
| 2005-... | Ad-hoc reviewer for JCI, Neoplasia, Cell Death and Differentiation, Turkish Journal of Biology, and Cancer Biology and Therapy (1-5 articles/year) |

Supervision of Doctoral Students:

1. Serkan Uğurlu, M.D. Ph.D.,

Thesis Title: “Regulation Mechanisms of Human BFK”, Boğaziçi University, Institute for Graduate Studies in Sciences and Engineering
graduated on 23 January 2014

2. Elif Eren, M. Sc., Ph.D. candidate

Proposal Title: “Role of NLRC3 in Cryopyrin Inflammasome Regulation and Immune Tolerance Mechanisms”
expected graduation- June 2015

3. Aybüke Garipcan, M.Sc., Ph.D. candidate

- Passed Qualifying Exam in January 2014
- Will present Doctoral Thesis Proposal in October 2014

4. Ceren Saygı, M. Sc., Ph.D. candidate

- Passed Qualifying Exam in January 2014
- Will present Doctoral Thesis Proposal in November 2014

Supervision of Master Degree Students:

1. Damla Erdođan, M. Sc.,

Thesis Title: “Importance of ASC Expression Levels in the Development of Chemoresistance in Human Melanoma Cell Lines”, Bođaziçi University, Institute for Graduate Studies in Sciences and Engineering, **Graduation date: 2008/06/10**

2. Burcu Sümer, M. Sc.,

Thesis Title: “Establishment of Primary Human Skin Cell Culture and Soft Agar Transformation Assay”, Bođaziçi University, Institute for Graduate Studies in Sciences and Engineering **Graduation date: 2009/01/28**

3. Metehan Çifdalöz, M. Sc.,

Thesis Title: “Importance of ASC Expression for Melanoma Tumorigenesis in Vivo and a Role for Inflammasome Activation in Apoptosis Induction”, Bođaziçi University, Institute for Graduate Studies in Sciences and Engineering **Graduation date: 2010/01/18**

4. Varol Ulaş Özkurede, M. Sc.,

Thesis Title: “Two Faces of ASC: Central Innate Immunity Adaptor ASC Turns into Melanoma Ally and Novel Mechanisms Demistifying dsRNA Induced NLRP3 Inflammasome Activation Through Bax/Bak Mediated Cell Death”, Bođaziçi University, Institute for Graduate Studies in Sciences and Engineering **Graduation date: 2011/09/30**

5. Yetiş Gültekin, M. Sc.,

Thesis Title: “Cloning and Characterization of Novel NOD-Like Receptors as Cytoplasmic Immune Sensors”, Bođaziçi University, Institute for Graduate Studies in Sciences and Engineering **Graduation date: 2011/06/07**

6. Xara Xarsou, M. Sc.,

Thesis Title: “Chemotherapy of Cancer Cell Lines Using Inflammasome Stimulation and Mitochondrial Cell Death Signaling”, **University of Thrace- Alexandropolis- Greece,**
Co-advisor: Prof. Katerini Chatzaki **Graduation date: 2011/02/07**

7. Duygu Demiröz, M. Sc.

Thesis Title: “A Priviliging Hunter: Role of NLRP7 in Immune Privilege”, Bođaziçi Üniversitesi, Fen Bilimleri Enstitüsü, **Graduation date: 2012/12/18**

8. Ali Can Sahilliođlu, M. Sc.

Thesis Title: “Structural Aspects of ASC Speck Formation and Its Potential Novel Functions”, Bođaziçi Üniversitesi, Fen Bilimleri Enstitüsü,
Co-advisor: Prof. Türkan Halilođlu **Graduation date: 2013/08/12**

9. Mustafa Yalçınkaya, ongoing since September 2012

Thesis Title: “Role of NLRP13 in Immune Privilege”, Bođaziçi Üniversitesi, Fen Bilimleri Enstitüsü, **Graduation date: June 2015**

10. Seda Yaşa, ongoing since May 2014

NEW PUBLICATIONS: (after Jan 2008)

Research Articles:

A1. Sahillioğlu AC*, Sümbül F*, **Özören N**** and Haliloğlu T**, “Structural and Dynamics Aspects of ASC Speck Assembly”, 2014 Nov 6, **Structure**, DOI: <http://dx.doi.org/10.1016/j.str.2014.09.011> (SCI-E, IF=6.1)

* Equal first author contribution

** Equal last author contribution

A2. Sahillioğlu AC and **Özören N**, “The ASC Speck as a Scaffold with Novel Immunological Properties: Cytosolic Proteins Co-Aggregate on the ASC Speck”, 2014, (accepted, PlosONE) (SCI-E, IF=3.7)

A3. Can Alkan, Pınar Kavak, Mehmet, Somel, Omer, Gokcumen, Serkan Uğurlu, Ceren Saygı, Elif Dal, Kuyaş Buğra-Bilge, Tunga Güngör, S. Cenk Sahinalp, **Nesrin Özören***, Cemalettin Bekpen* “Whole Genome Sequencing Of 16 Turkish Genomes Reveals Functional Private Alleles And Impact Of Genetic Interactions With Europe, Asia And Africa”, 2014 Nov 7;15 (1):963 , **BMC Genomics** _ DOI: [10.1186/1471-2164-15-963](https://doi.org/10.1186/1471-2164-15-963). (SCI-E, IF=4.4)

*Equal contribution

A4. Zaleska A, Eiwegger T, Soyer Ö, Rhyner C, Soyka MB, Bekpen C, Demiröz D, Treis A, Söllner S, Palomares O, van de Veen W, Kwok WK, Rose H, Senti G, Kündig TM, **Özören N**, Jutel M, Akdis CA, Cramer R, and Akdis M, “Immune Regulation By Intralymphatic Immunotherapy With Modular Allergen-Translocation MAT Vaccine”, **Allergy**. 2014 Sep; 69(9):1162-70. doi: [10.1111/all.12461](https://doi.org/10.1111/all.12461). Epub 2014 Jul 12. (SCI-E, IF=5.8)

A5. Gultekin Y, Eren E and **Özören N**, Overexpressed NLRC3 Acts as an Anti-Inflammatory Cytosolic Protein, 2014 Sep 27, **J. of Innate Immunity**, PMID: 25277106 (SCI-E, IF=4.5)

A6. Yuksel S, Eren E, Hatemi H, Sahillioğlu AC, Gultekin Y, Demiroz D, Akdis C, Fresko I, and **Özören N**, "Novel NLRP3/cryopyrin mutations and pro-inflammatory cytokine profiles in Behcet's syndrome patients", **International Immunology**; 2014, Feb;26(2):71-81. doi: [10.1093/intimm/dxt046](https://doi.org/10.1093/intimm/dxt046). Epub 2013 Oct 17. (SCI-E, IF= 4.3)

A7. **Özören N**, Inohara N, Nunez G, A Putative Role for Human BFK in DNA Damage Induced Apoptosis, **Biotechnol. J.**, 2009, 4(7):1046-1054. (PUBMED, SCI-E since 2010, IF= 3.7)

Invited Commentaries:

C1. Atay C, Ugurlu S, **Özören N**, 2009, Shock the heat shock network., **J Clin Invest.** ,119(3):445-8.

C2. Yüksel S, **Özören N**, 2008, Can you tBID on it?, **Cancer Biol Ther.** , 7(11).

Patents:

P1.Sahillioğlu AC and **Özören N**, A Method for Antigen Delivery, 2012 (TPE), PCT application 2013

Manuscripts in Preparation

1. Cifdaloz M, Erdogan D, Sumer B, Coban C, Ishii K, Akira S, Soengas M and **Özören N**, “Importance of ASC Expression for the Chemoresistance of Human Melanoma Cells”, 2014 (**manuscript in preparation for Turkish Journal of Biology**)
2. Uğurlu S, Afshar U, Emre NCT, and **Özören N**, “Regulation of Human BFK Gene” 2014 (**manuscript in preparation for Cancer Biology and Therapy**)

1. Amer A, Franchi L, Kanneganti TD, Body-Malapel M, **Özören N**, Brady G, Meshinchi S, Jagirdar R, Gewirtz A, Akira S, Nunez G., 2006, Regulation of Legionella Phagosome Maturation And Infection Through Flagellin and Host IPAF. *J Biol Chem.*, 281(46):35217-23. (Epub ahead of print 2006 Sep 19.) (**total citations= 236**)
2. Franchi L, Amer A, Body-Malapel M, Jagirdar R, Kanneganti TD, **Özören N**, Bertin J, Coyle A, Grant EP, and Núñez G, 2006, Cytosolic flagellin requires Ipaf for activation of caspase-1 and interleukin 1beta in salmonella-infected macrophages. *Nat Immunol.*, 7(6):576-82. (Epub 2006 Apr 30.) (**total citations= 528**)
3. **Özören N**, Masumoto J, Franchi L, Ertürk İ, Jagirdar R, Zhu L, Inohara N, Bertin J, Coyle A, Grant EP, and Núñez G, 2006, Distinct roles of TLR2 and the adaptor ASC in IL-1beta/IL-18 secretion in response to *Listeria monocytogenes*. *J Immunol.*, 176(7):4337-42. (**total citations= 109**)
4. Kanneganti TD, **Özören N**, Body-Malapel M, Amer A, Park JH, Franchi L, Whitfield J, Barchet W, Colonna M, Akira S, and Núñez G, 2006, Bacterial RNA and small antiviral compounds activate caspase-1 through cryopyrin/Nalp3. *Nature.*, 440(7081):233-6. (**total citations= 483**)
5. **Özören N**, and El-Deiry WS, 2002, Heat shock protects HCT116 and H460 cells from TRAIL-induced apoptosis. *Exp. Cell Res.*, 281(2): 175-81. (**total citations= 18**)
6. **Özören N**, El-Deiry WS, 2002, Defining characteristics of Types I and II apoptotic cells in response to TRAIL. *Neoplasia.*, 4(6): 551-7. (**total citations= 104**)
7. **Özören N**, Kim K, Burns TF, Dicker DT, Moscioni AD, El-Deiry WS, 2000, The caspase 9 inhibitor Z-LEHD-FMK protects human liver cells while permitting death of cancer cells exposed to tumor necrosis factor-related apoptosis-inducing ligand. *Cancer Res.*, 60(22): 6259-65. (**total citations= 97**)
8. **Özören N**, Fisher MJ, Kim K, Liu CX, Genin A, Shifman Y, Dicker DT, Spinner NB, Lisitsyn NA, El-Deiry WS, 2000, Homozygous deletion of the death receptor DR4 gene in a nasopharyngeal cancer cell line is associated with TRAIL resistance. *Int. J. Oncol.* 16(5): 917-25. (**total citations= 88**)
9. Pai SI, Wu GS, **Özören N**, Wu L, Jen J, Sidransky D, El-Deiry WS, 1998, Rare loss-of-function mutation of a death receptor gene in head and neck cancer. *Cancer Res.* 58(16): 3513-8. (**total citations= 119**)

Invited Review and Book Contributions

1. **Özören N**, El-Deiry WS, 2003, Cell surface death receptor signaling in normal and cancer cells. *Seminars in Cancer Biology*, 13: 135-147 (**total citations= 167**)
2. **Özören N**, El-Deiry WS, 2000, Introduction to cancer genes and growth control. In: Ehrlic M, ed. *DNA Alterations in Cancer: Genetic and Epigenetic Changes*. Natick, MA: Eaton Publishing, 3-43.

Posters Presented at International Meetings/Congresses

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| Ozkurede V. U., Sumer B., Soengas M., Nunez G., Ozoren N., "Effect of ASC knock down on translation of human melanocytes", Abstract Book, p.iii170, abstract # PP-093-162, 14th International Congress of Immunology, August 22-27, 2010, Kobe-Japan |
| Cifdaloz M., Ozoren N., "Importance of ASC expression for melanoma tumorigenesis in vivo and a role for inflammasome activation in apoptosis induction", Abstract Book, p.iv85, abstract # PP-078-14, 14th International Congress of Immunology, August 22-27, 2010, Kobe-Japan |
| Gültekin Y., Eren E., Yüksel S., Özören N., "Functional Studies Of Cryopyrin V200m Mutation Identified In Behçet's Disease", Abstract Book, P.Iv84, Abstract # Pp-078-10, 14th International Congress Of Immunology, August 22-27, 2010, Kobe-Japan |
| Yüksel S., Demiröz D., Eren E., Gültekin Y., Hatemi G., Fresko I., Yazıcı H., Özören N., "Genetic and functional characterization of Cryopyrin Inflammasome in Behcet Patients", Abstract Book, p.iv84, abstract # WS/PP-078-06, 14th International Congress of Immunology, August 22-27, 2010, Kobe-Japan |
| Uğurlu S ve Özören N., "Human BFK Expression in the Gastrointestinal Tract", Abstract Book, p. 54, abstract #49, International Cell Death Society Symposium on "Multidisciplinary Approaches in Cell Death Research form Yeast to Man", May 28-31, 2010, Kemer-Antalya |
| Özkurede U, Sümer B and Özören N, "Effect of ASC Knock Down on Transformation of Primary Human Melanocytes", Abstract Book, p. 49, abstract #39, International Cell Death Society Symposium on "Multidisciplinary Approaches in Cell Death Research form Yeast to Man", May 28-31, 2010, Kemer-Antalya |
| Demiröz D and Özören N., "Effect of ASC Expression on Apoptosis Induction in Melanoma Cell Lines", Abstract Book, p. 39, abstract #14, International Cell Death Society Symposium on "Multidisciplinary Approaches in Cell Death Research form Yeast to Man", May 28-31, 2010, Kemer-Antalya |
| Eren E, Gültekin Y And Özören N, "Caspase 1 Activating Inflammasome in Behçets Disease", Abstract Book, P. 40, Abstract #15, International Cell Death Society Symposium On "Multidisciplinary Approaches In Cell Death Research Form Yeast To Man", May 28-31, 2010, Kemer-Antalya |
| Yüksel Ş, Hatemi G., Fresko İ., Yazıcı H. Özören N., "The Cryopyrin (Cias1/Nalp3 Inflammasome In Behçets Disease", Abstract Book, P.139, Abstract #475, Keystone Symposia On Pattern Recognition Molecules And Immune Sensors Of Pathogens, March29-April 3, 2009, Banff-Canada |
| Özören N, Masumoto J, Franchi L, Ertürk İ, Jagirdar R, Zhu L, Inohara N, Bertin J, Coyle A, Grant EP, and Núñez G, "ASC is Important for Innate Immunity against Listeria monocytogenes in Vivo", The FEBS Journal, Volume 273, (Suppl. 1): p.275-276, abstract # PP-735, The 31 FEBS Congress, Istanbul-Turkey, June 2006 |
| Ozoren N, Kim K.-H., Burns T.F., Dicker D.T., Moscioni A.D., El-Deiry W.S., "Caspase 9 Inhibition Allows TRAIL-Induced Killing of Cancer Cells While Protecting Normal Human Liver Cells", Proceedings of the American Association for Cancer Research, abstract # 1713, Volume 42, p.317-318, March 2001 |
| Ozoren, N., Fisher, M., Kim, K.-H., Liu, C.-X., Lisitsyn, N.A., El-Deiry, W.S., "A Homozygous Deletion of the DR4 TRAIL Receptor Gene is Associated with TRAIL Resistance of FaDu Nasopharyngeal Carcinoma Cells", Proceedings of the American Association for Cancer Research, abstract # 4601, Volume 40, p. 697, March 1999 |

PROJECTS:**TÜBİTAK Supported Projects**

| Proje No | Projedeki Görevi | Proje Adı | Başlama-Bitiş Tarihi | Destek Miktarı (TL) |
|----------|-------------------|--|-------------------------|---------------------|
| 105S350 | Yürütücü | ASC Geninin DNA Hasarı Tetikli Hücre Ölüm Mekanizmalarındaki Öneminin İnsan Melanoma Hücre Dizilerinde Belirlenmesi | 01.05.2006-01.05.2009 | 214 590 |
| 109T200 | Araştırmacı | Sik2'nin Fgf Sinyal Yolaklarının Modülasyonunda Yer Alma Olasılığının İrdelenmesi Yürütücü: Prof. Dr. Kuyaş Buğra | 15.10.2009-15.10.2011 | 240 000 |
| 110T088 | Araştırmacı/Uzman | Biyolojik Makromoleküller Birbirleri ile Nasıl İletişim Kurarlar? | 01.10.2010-01.10.2013 | 239 444 |
| 112S115 | Yürütücü | COST ACTION NLRP7 Proteininin İmmün Tolerans ile İlişkisinin Belirlenmesi | 15.11.2012-15.11.2015 | 349 781 |
| 112T253 | Danışman | Tümör Anjiyogenezin Moleküler Görüntülenmesi İçin Fotoakustik Mikroskop Geliştirilmesi Yürütücü: Doç. Dr. Burçin Ünlü | 01/01/2013-31/12/2016 | 333 450 |
| 113F047 | Danışman | Kanserli Tümörlerde İlaç İletiminin Özgün Bir Fiziksel Modeli Yürütücü: Doç. Dr. Burçin Ünlü | 01/10/2013 - 30/09/2015 | 125 200 |
| 113S174 | Danışman | Helicobacter-Aktive Regülatör B Hücreleri ile Doğal ve Hücre-Aracılı İmmün Sistem Arasındaki Fonksiyonel Etkileşimlerin Araştırılması Yürütücü: Doç. Dr. Ayça Sayı | 15.10.2013-15.10.2016 | 357 332 |
| 113Z103 | Danışman | Irf4 Transkripsiyon Faktörünün Melanom Hücrelerindeki İfadesinin Denetiminde Etkili Yolakların Tanımlanması Yürütücü: Y.Doç. Dr. N.C. Tolga Emre | 15.10.2013-15.04.2016 | 297 447 |

Projects Supported by EMBO, Boğaziçi University-BAP, EU and DPT

| Proje No | Projedeki Görevi | Proje Türü (**) ve Adı | Başlama-Bitiş Tarihi | Destek Miktarı (TL) |
|---|---|--|---------------------------|--|
| EMBO SDIG-1468 | Yürütücü | "Investigation of the Importance of Cryopyrin and IL-1b in Behcets Disease" | 01.01.2007- 31.12.2011 | 250 000 EURO (~500 000 TL) |
| EU-FP7- REGPOT- 2009-1 #245959 | Yürütme Kurulu Üyesi/ Kanser- İmmünoloji İş paketinin Yürütücüsü | "MBG-BRIDGE" "Strengthening The Research Capacity Of Bogazici University MBG (Istanbul) Through Local Initiatives And Transnational Interactions" | 01.12.2009- 15.04.2013 | 1 115 000 EURO (~2 500 000 TL) |
| DPT- 09K120520 | Eş-Yürütücü | Yaşam Bilimleri ve Teknolojileri UYGAR- "Boğaziçi Üniversitesi Türkiye Genom Araştırması" | 01.03.2011- 01.01.2012 | 342 000 |
| BÜ-BAP 5568 | Yürütücü | "BFK Geninin Denetiminin Araştırılması" | 17.05.2010- 30.06.2012 | 60.000 |
| BÜ- BAP 06B106 | Yürütücü | "ASC Geninin DNA Hasarı Tetikli Hücre Ölüm Mekanizmalarındaki Öneminin Araştırılmasına Yönelik Lentiviral Vektörlerin ve Hücre Dizilerinin Ssağlanması" | 24.03.2006- 24.03.2008 | 39.784 |
| BÜ-BAP 6526 | Yürütücü | "NLRP3 İnflamazom Kompleksinin Birleşim/Ayrışım Moleküler Mekanizmalarinin Belirlenmesi" | 10.28.2011- 26.12.2012 | 36 800 |
| BÜ-BAP Matching 7630 | Yürütücü | "NLR Proteinlerinin Enflamasyondaki Görevlerinin Araştırılması" | 27.05.2013- 27.05.2016 | 60 000 +third year funds |
| BÜ-BAP TUG-8400 | Yürütücü | "ASC Zerrelerinin Aşı ve Adjuvan Olarak Geliştirilmesi" | | 217 000 +second and third year funds |

Courses Taught:

Undergraduate Level

BIO152 Introduction to Modern Biology (taught 1/3 of the course)
BIO 241 Cell Biology
BIO 342 Physiology I
BIO 443 Physiology II
BIO 481 Molecular Immunology
BIO 488 Advanced Methods in Cell Biology
BIO 402 Molecular Biology (taught 1/2 or 1/3 of the course)

Graduate Level

BIO 586 Cell Cycle and Apoptosis
BIO 684 Novel Cancer Therapy Approaches

Invited Presentations at International Conferences/Schools:

EMBO-Central European Scientists Meeting-14-16 Sept 2007, *Tallinn-Estonia*,
talk title: "Inflammasome Activation in Disease"

WPI Immunology Frontier Research Center, *Osaka University- Japan*, 19 Feb 2009,
talk title: "Inflammasome Activity in Disease and Apoptosis"

EMBO-YIP sponsored event-Frontiers in Molecular Biology and Biomedicine Workshop- 20-21
March 2010, Birzeit University- *Ramallah-Palestine*, talk title: "The innate immune system: first line
of defence"

EMBO-Young Investigator Minisymposium- 22 March 2010, Weizmann Institute-*Rehovot-Israel*,
talk title: "Inflammation and Apoptosis"

International Cell Death Society Conference May 28-31, 2010, *Kemer-Turkey*:
"Multidisciplinary Approaches in Cell Death Research from Yeast to Man", talk title: "ASC Activity
in Melanoma"