

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Lejla Hadzikadic Gusic		POSITION TITLE Surgical Oncologist	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Duke University Durham, NC	B.S.	05/1999	Biology and Latin American Literature
Georgetown University, Washington DC.	M.Sc.	2/2001	Physiology and Biophysics
Georgetown University, Washington DC	M.D.	5/2005	Medicine
Boston Univ. Med. Center, Boston, MA	Intern and Junior Resident	6/2005-6/07	General Surgery
Boston Univ. Med. Center, Boston, MA	Surgical Research Fellow	6/2007-6/09	Trauma Surgery
Boston Univ. Med. Center, Boston, MA	Senior Research Resident	6/2009-6/12	General Surgery
Magee Womens Hospital of University of Pittsburgh Medical Center, Pittsburgh, PA	Fellow	7/2012-6/13	Breast Surgical Oncology

PROFESSIONAL EXPERIENCE:

Clinical Associate Professor Breast Surgical Oncology, Department of Surgery	9/2018-Present
Director Levine Cancer Institute Bosnian Medical Fund	3/2018-Present
Program Director, SSO Breast Surgical Oncology Fellowship	9/2019- Present
Co-Director, Sandra Levine Young Women's Breast Cancer Program Levine Cancer Institute	2/2016-Present
Associate Program Director, SSO Breast Surgical Oncology Fellowship	11/2017-9/2018
Clinical Assistant Professor Breast Surgical Oncology, Department of Surgery, Carolinas Medical Center, Levine Cancer Institute, 1021 Morehead Medical Dr, Charlotte, NC 28204	8/2013-2018
Adjunct Assistant Professor, Department of Surgery, UNC School of Medicine	12/2014-Present
Lecturer in Medical Sciences, Medical School of the University of Sarajevo School of Science and Technology (SSST)	7/2014-Present

BOARD CERTIFICATION:

Fellow of the Society of Surgical Oncology FSSO	6/2012
Board Certified American Board of Surgery	3/2013
Fellow of the American College of Surgeons FACS	10/2017

HOSPITAL AFFILIATION: Carolinas Medical Center, Levine Cancer Institute, Atrium Health
Charlotte, NC

CLINICAL RESEARCH:

Trauma Surgery Research Fellow, Drs. Burke and Agarwal Lab, Boston Medical Center, Boston, MA	6/2007-6/09
NIH IRTA Fellowship: Transfusion Medicine and Molec. Immun. Lab, Research in clinical immunology and immunogenetics of melanoma vaccine under the auspices of Dr. Steven Rosenberg and Dr. Franco Marincola. NCI - NIH, Bethesda, MD	7/1999-7/00
Honors Thesis Research Project – Collaboration between Pediatric Cardiology and Dept. of Radiology: “Experimental Design of Mouse Perfusion Models using Magnetic Resonance Microscopy”, Duke University, Durham, NC	1/1999-5/99
Medical Center Lab Research Assistant: Pediatric Cardiology, “Altered expression of Troponin T isoforms affect cardiac morphology”, Duke University, Durham, NC	8/1995-5/98
NCSSM-Duke Univ Program in Research: Andstand Heart Pump, Durham, NC	8/1994-5/95
AHA Fellowship in Emergency Medicine Research, Research on Adenosine use during acute endotoxin shock, Carolinas Med Center, Charlotte, NC	6/1994

HONORS AND AWARDS:

Lester F. Williams Medical Student Teaching Award; Boston University Dept. of Surgery, Boston, MA.	6/2012
Bosnian Medical Initiative (BMI) Fellowship, Dept. of Trauma Univ. Hospital, Sarajevo, Bosnia	1/2005-2/05
NIH IRTA Fellowship (Intramural Research Training Award), NIH, Bethesda, MD	7/1999-7/00
Honors in Biology Degree for Senior Thesis Project, Duke University, Durham, NC	5/1999
Slavic Dept. Award for Creative Projects Black/White Photography on War Reconstruction In Bosnia, Duke University, Durham, NC	
United States Achievement Academy Awards	1993-95
American Heart Association Fellowship, Emergency Medicine Research, Carolinas Medical Center, Charlotte, NC	
Pearl S. Buck Leadership Award, Charlotte NC	5/1993

Grants

- **Director Lejla Hadzikadic-Gusic MD** of the Levine Cancer Institute Bosnian Medical Fund. Established 3/2018. A Carolinas HealthCare Foundation fund dedicated to the support of medical education and research exchange between Levine Cancer Institute and medical professionals in Bosnia. (\$150k)
- **Co-PI Hadzikadic-Gusic L.** ASPIRE Grant. “In early stage breast cancer setting, translational end point driven study to explore potential effect of gedatolisib (PI3 kinase inhibitor) on immune system in regard to PD-1, PD-L1, TILs, and other appropriate markers, with or without an immunotherapy agent.” Study grant in writing phase with LCI medical oncology team with Co-PI Dr. Antoinette Tan and Dr. Edward Kim.
- \$1 Million dollar matched grant from the Levine Foundation for the creation of a Young Women’s Breast Cancer Program at the Levine Cancer Institute (\$2 Million total). (Awarded February 2016)
- Physician Investigator Trial: Protocol #: LCI-BRE-BCS-RSL-001 “A randomized single center superiority trial of radioactive seed localization versus needle localization for malignant breast disease.” **Hadzikadic-Gusic L,** Flippo-Morton T, Forster M, Gromet M, Livasy C, Sarantou T, Sobel A, White R, Burri S, Symanowski J. Grant applied for 10/2014 and approved March 2015. \$53K

Investigator (Last, First, Middle): Hadzikadic Gusic, Lejla

- Travelling Professor Grant: International Organization for Migration (IOM)/The UN Migration Agency. D4D Project (Diaspora for Development); One week visiting professor grant to UKC Tuzla, Bosnia and Hercegovina (\$2000)

MANUSCRIPTS AND PUBLICATIONS

Graham E, Fasola C, Trufan S, Hecksher A, Rogers J, White RL, Voci A, Sarma D, Forster M, Sarantou T, **Hadzikadic-Gusic L**. *Effect of Age in Patients Undergoing Radiation Therapy after Mastectomy for Breast Cancer*. Accepted *Annals of Surgical Oncology* in editing. 10/2019.

Phantana-Angkool A, Voci AE, **Hadzikadic-Gusic L**, Trufan SJ, Sarma D, Sarantou T, Forster MR, White RL Jr. "Ductal carcinoma in situ with microinvasion on core biopsy: Evaluating tumor upstaging rate, lymph node metastasis rate, and associated predictive variables." *Annals of Surgical Oncology*. 2019 Nov;26(12):3874-3882. doi: 10.1245/s10434-019-07604-4. Epub 2019 Jul 24. PMID 31342378

Phantana-Angkool A, Forster MR, Warren YE, Livasy CA, Sobel AH, Beasley LM, Trufan SJ, **Hadzikadic-Gusic L**, Sarantou T, Voci AE, Sarma D, White RL Jr. "Rate of radial scars by core biopsy and upgrading to malignancy or high risk lesions before and after introduction of digital breast tomosynthesis." *Breast Cancer Res Treat*. 2019 Jan; 173 (1): 23-29. PMID: 30242581

Hadzikadic-Gusic L, Walsh K, Flippo-Morton T, Sarantou T, Boselli D, White RL. "Rationale for Mastectomy after Neoadjuvant Chemotherapy" *Am Surg* 2018 Jan 1;84 (1): 126-132. PMID 29428039

Palmer, J, Flippo-Morton T, Walsh KK, **Hadzikadic-Gusic L**, Sarantou T, Robinson MM, White RW. "Application of ACOSOG Z1071 Effect of Results on Patient Care and Surgical Decision-Making." *Clinical Breast Cancer*. DOI: 10.1016/j.clbc.2017.10.006. Aug;18(4):270-275. PMID 29129549

Patten, C., K. Walsh, T. Sarantou, **Hadzikadic-Gusic L**, M.R. Forster, M.M. Robinson, R.L. White, Jr. *Changes in Margin Re-excision Rates: Experience Incorporating the "No Ink on Tumor" Guideline into Practice*. *J Surgical Oncology* Jul 2017 Dec;116(8):1040-1045 DOI 10.1002/JSO.24770. PMID 28750136.

Brown, J, Tait DL, Crane EK, Higgins RB, Naumann RW, **Hadzikadic-Gusic, L**, Amacker-North L. "Telemedicine and patient navigation: Effective strategies to deliver regional genetic counseling." Submitted to *Gynecologic Oncology* 5/2017

Abe S.E., J.S. Hill, Y. Han, K. Walsh, J.T. Symanowski, **L. Hadzikadic-Gusic**, T. Flippo-Morton, T. Sarantou, M. Forster, R.L. White, Jr. Margin re-excision and local recurrence in invasive breast cancer: A cost analysis using a decision tree model. *J of Surg Onc*. Aug 2015;112(4):443-448.

Hadzikadic Gusic L, McGuire KP, Ozmen T, Thomas CR, Soran A, McAuliffe PF, Diego EJ, Bonaventura M, Johnson RR, Ahrendt GM. "Margin Width is Not Predictive of Residual Disease on Re-Excision in Breast Conservation Therapy." *J. Surg Oncol*. 2013; 9999;1-5.

Hadzikadic Gusic L. "Occult Primary Cancer with Axillary Metastases" chapter for Breast Disease. Publishing by Istanbul University. Published by Springer 6/16/2016.

Ross M, **Hadzikadic Gusic L**, Kelly J, Diego E. "Simultaneous recurrence of ipsilateral breast cancer and axillary nodal melanoma: case report and review of the literature." *Accepted for publication in Tumori*, 2014.

Hadzikadic L, Burke P, Esposito TJ, and Agarwal S. "Surgical Resident Perceptions of Trauma Surgery as a Specialty." *ArchSurg* May, 2010, Vol 145 (5):445-450.

Hadzikadic L and Agarwal S. "Current Prophylactic Perioperative Antibiotic Guidelines in Trauma: A Review of the Literature and Outcome Data." *Bosnian Journal of Basic Medical Sciences, BHAAAS (Bosnian Hercegovinian American Academy of Arts and Sciences)* 2009; 9 (Supplement 1): S49-S53).

Hadzikadic L, Agarwal S, and Burke, PA. "Hypotensive resuscitation in Penetrating Trauma: Rules of the Game" chapter for Penetrating Trauma: A practical guide on operative technique and peri-operative management. Springer Publishing. Editors: George C. Velmahos, Elias Degiannis, and Dietrich Doll. 1st Edition. Dec, 2011. XVII, 615 p. Pages 23-28.

Hadzikadic L, Agarwal S, Hirsch E, Burke PA. "Is There A Difference Between Surgical and Medical ICUS: A Comparison of ARDS and SIRS with VAP." Abstract published in *Surgical Infections*. April, 2009. 10(2):178,252. Bettinotti MP, **Hadzikadic L**, Ruppe E, Dhillon G, Stroncek D, and Marincola, F. "New HLA-A,B, and C locus-specific primers for PCR Amplification from cDNA: Application for Clinical Immunology." *J Immunol Methods*. 2003. Aug; 279 (1-2): 143-8.

Bettinotti MP, **Hadzikadic L**, Chun H, Marincola FM. "The HLA Lab Beyond Typing: Production of Recombinant Class I Molecules for Future Use in Functional Studies." *Hum Immunol*. 2000. 61 Supp 2, p13. Presented at ASHI 26th Ann Mtg. Orlando, FL Oct. 10-14, 2000.

Hadzikadic L, Hedlund L, Johnson GA, Anderson P. "Experimental Design of Mouse Perfusion Models using Magnetic Resonance Microscopy." Abstract/Paper presented and accepted for Honors Distinction in Biology from Duke University.

Oral Presentations

Abe SE, Hill JS, Han Y, Symanowski JT, **Hadzikadic-Gusic L**, Flippo-Morton T, Sarantou T, Salo J, Forster M, Carpenter K, White RL. "Margin Re-excision and Local Recurrence in Invasive Breast Cancer: a Cost Analysis using a Decision Tree Model" Submitted to *Annals of Surgical Oncology*, June 2014 and presented at SSO 2014

Hadzikadic L, Burke P, Esposito TJ, and Agarwal S. "The Future of Trauma Surgery: Resident and Attending Views Differ." Oral presentation at ACS Resident forum held in Chicago, IL in October, 2009.

Hadzikadic L, Burke P, Esposito TJ, and Agarwal S. "Surgical Resident Perceptions of Trauma Surgery as a Specialty." Oral presentation at ACS Resident forum held in Chicago, IL in October, 2009; *ArchSurg* May, 2010, Vol 145 (5):445-450.

Hadzikadic L, Vanheukelom E, Thigpen JB, Mehra P, Burke PA, Agarwal S. "Duration of Antibiotics in Facial Fractures Does Not Predict Infection" Oral presentation at the American College of Surgeons, Massachusetts Chapter (MA-ACS) 55th Annual Meeting in Boston, MA December, 2008.

Hadzikadic L, Agarwal S, Hirsch E and Burke PA. "Is There a Difference between Surgical and Medical ICUs: A Comparison of ARDS and SIRS in patients with VAP." Oral presentation at the American College of Surgeons Massachusetts Committee on Trauma (ACS-COT) in Cambridge, MA October, 2008. Abstract published in *Surgical Infections*. April, 2009. 10(2):178,252.

Agarwal S, **Hadzikadic L**, Burke PAB, Glantz A, Becker J, Hirsch E. "A Satisfying Surgical Practice: The Academic Trauma Service Model." Oral presentations at the New England Surgical Society (NESS) Boston, MA October, 2008 and the American College of Surgeons Massachusetts Committee on Trauma (ASC-COT) in Cambridge, MA Nov 2007.

Agarwal S, Burke PAB, and presented by **Hadzikadic L.** "The Effect of Mechanical Strain on the Inflammatory Response of Healing Wounds." Oral presentation at the New England Surgical Society (NESS) Massachusetts chapter at Harvard Medical Center. May 2008.

Bettinotti MP, Wang E, Monsurro V, **Hadzikadic L**, Marincola FM. "Lack of Correlation between FLU/HLA-A*0201 or A*0205 Tetrameric Complexes Staining and Immunogenicity of FLU-M1 (58-66) in HLA-A*0201 and A*0205 Bearing Individuals." Presented at Faseb Journal at Amer. Assoc. of Immunologists Joint Annual Mtg. Seattle, Washington. May 2000.

ABSTRACTS AND POSTERS

Graham E, Boselli D, Heckshner A, Voci A, Sarma D, Forster M, Sarantou T, White RL, **Hadzikadic-Gusic L.** *Young Age is an Independent Predictor of Chemotherapy Recommendation in Breast Cancer.* Accepted SSO 10/2019

Sharp H, Graham E, Clavin N, Trufan S, Hecksher A, Moffitt K, Fasola C, White RL, **Hadzikadic Gusic L.** *Effect of Oncoplastic Reduction Mammoplasty on Timing of Radiation Therapy in Women undergoing Breast Conserving Surgery for Breast Cancer.* Accepted poster ASBrS 10/2019

Graham E, Fasola C, Trufan S, Hecksher A, Rogers J, White RL, Voci A, Sarma D, Forster M, Sarantou T, **Hadzikadic-Gusic L.** *Effect of Age in Patients Undergoing Radiation Therapy after Mastectomy for Breast Cancer.* Accepted poster and oral quickshot ASBrS 10/2019.

Hudson L, Hecksher A, Trufan SJ, White RL, Sarantou T, Forster MR, Sarma D, Voci A, Hadzikadic-Gusic L. *Single Surgeon vs Co-surgeon Bilateral Mastectomy: A comparison of operative time, postoperative nausea, narcotic usage, and length of stay.* Presented at ASBS 2019.

Phantana-angkool A, M.R. Forster, Y.E.Warren, A.H. Sobel, C.A. Livasy, **L. Hadzikadic-Gusic**, T. Sarantou, D. Sarma, A. Voci, L.M. Beasley, I. N. Perry, O. Thielen, R.L. White. *Tomosynthesis finds more radial scars, but do we care?* Accepted for poster presentation at the annual meeting of Society of Surgical Oncology 2018.

Phantana-angkool A, Y.E. Warren, A.E. Voci, C.A. Livasy, **L. Hadzikadic Gusic**, T. Sarantou, M.R. Forster, D. Sarma, I.N. Perry, R.L. White. *Is Sentinel Node Biopsy Necessary when Ductal Carcinoma in Situ with Microinvasion is Found on Core Biopsy?* Accepted for poster presentation at the annual meeting of Society of Surgical Oncology 2018.

Yancey EW, D. Sarma, A. Phantana-angkool, **L. Hadzikadic-Gusic**, A.Voci,T.Sarantou, M.R. Forster, C. Livasy, I. Perry, A. Andrews, D. Tyson, R.L.White. *Does obtaining a larger sample of breast tissue lead to decreased HER2 equivocal diagnoses?* Accepted for poster presentation at the annual meeting of Society of Surgical Oncology 2018.

Patten, C.R., K. Walsh, T. Sarantou, **L. Hadzikadic Gusic**, M.R. Forster, D. Sarma, Y. Han, R.L. White, Jr. 2016. Racial Disparities in Lumpectomy and Mastectomy Rates – Narrowing the Gap? Accepted for poster presentation at the annual meeting of the American Society of Breast Surgeons, 2016.

Lorimer, P.D., R.C. Kirks, K. Walsh, Y. Han, C.R. Patten, T. Sarantou, **L. Hadzikadic Gusic**, J.C. Salo, R.L. White, J.S. Hill. 2016. Surgical Management of the Axilla in Women with Breast Cancer in North Carolina. Submitted for presentation at the American College of Surgeons Clinical Congress, 2016.

Patten, C., K. Walsh, T. Sarantou, **L. Hadzikadic-Gusic**, M.R. Forster, M.M. Robinson, R.L. White, Jr. *Changes in Margin Re-excision Rates: A Single Institution's Experience Incorporating the "No Ink on Tumor" Guideline into Practice.* Society of Surgical Oncology, Boston, MA, 2016.

Palmer, J., T.S. Flippo, K.W. Carpenter, **L. Hadzikadic-Gusic**, T. Sarantou, M.M. Robinson, R.L. White, Jr. *Results of Z1071: Impact of Results on Patient Care and Surgical Decision-Making.* American Society of Breast Surgeons, Orlando, FL, 2015.

Palmer, J., K.W. Carpenter, **L. Hadzikadic-Gusic**, T. Sarantou, T.S. Flippo, M.M. Robinson, R.L. White, Jr. *Survival Post-Neoadjuvant Chemotherapy in Breast Cancer: Validation of the MD Anderson Cancer Center Nomogram.* Society of Surgical Oncology, Houston, TX, 2015.

Abe, S.E., Y. Han, **L. Hadzikadic-Gusic**, K.W. Carpenter, T.S. Flippo-Morton, R.L. White, Jr., J. Symanowski, J.S. Hill. *T1aN1 Breast Cancers predict worse survival over T1bN1 cancers.* American Society of Breast Surgeons, Las Vegas, NV, 2014.

Hadzikadic Gusic L, McGuire KP, Ozmen T, Thomas C, Soran A, McAuliffe P, Diego E, Bonaventura M, Johnson RR, Ahrendt GM. "Margin Width is Not Predictive of Residual Disease on Re-Excision in Breast Conservation Therapy." Poster at the American Society of Breast Surgeons (ASBS) in Chicago, IL on May, 2013.

Hadzikadic Gusic L, Falcone J, McGuire KP, Soran A, Diego EJ, Thomas CR, McAuliffe PF, Bonaventura M, Johnson RR, Ahrendt GM. "Improved Outcome and Selection Bias in Primary Breast Surgery for Patients with Metastatic Breast Cancer." Poster at the American Society of Clinical Oncology (ASCO) in Chicago, IL on June, 2013.

McAuliffe PF, **Hadzikadic Gusic L**, McGuire KP, Soran A, Diego EJ, Puhalla SL, Lembersky BC, Puleio DV, Spangler ML, Berg WA, Beriwal S, Bhargava R, Gimbel ML, Goldstein SL, Engel GS, Bonaventura M, Ahrendt GM, Johnson RR. "Teleconferencing for Breast Cancer Multidisciplinary Conference." Poster presentation at the Society of Surgical Oncology (SSO) in Washington, DC on March, 2013.

Hadzikadic L, Burke PA, Esposito TJ, Agarwal S. "The Future of Trauma Surgery: Resident and Attending Views Differ." Poster at the American Academy of Trauma Surgeons (AAST) in Pittsburgh, PA on October, 2009.

Hadzikadic L, Agarwal S, Hirsch E, Burke PA. "Is There A Difference Between Surgical and Medical ICUS: A Comparison of ARDS and SIRS with VAP." Poster at the Surgical Infection Society (SIS) in Chicago, IL, May, 2009. Abstract published in *Surgical Infections*. April, 2009. 10(2):178,252.

Agarwal S, **Hadzikadic L**, Burke PA, Glantz A, Becker J, Hirsch E. "The Return of General Surgery: A Meaningful Operative and Financial Model for the Future of Trauma Surgery." Poster at the American College of Surgeons, Massachusetts Chapter (MA-ACS) 55th Annual Meeting in Boston, MA December, 2008.

Investigator (Last, First, Middle): **Hadzikadic Gusic, Lejla**

Hadzikadic L, Van-Heukelom E, Thigpen J, Agarwal S, Pushkar M, Burke P, Hirsch E. "Duration of Antibiotics in Facial Fractures Does Not Predict Infection." Poster at the American Academy of Trauma Surgeons (AAST) in Hawaii Oct, 2008.

Agarwal S, **Hadzikadic L**, Burke PAB, Glantz A, Becker J, Hirsch E. "A Satisfying Surgical Practice: The Academic Trauma Service Model." Poster at the American Academy of Trauma Surgeons (AAST) in Hawaii Oct, 2008.

Bettinotti MP, **Hadzikadic L**, and Marincola, F. "Locus-specific and whole-gene-spanning primers for PCR amplification of HLA-A, B and C coding sequences." PHS Employee Invention. Presented at ASHI 26th Annual Meeting in October, 2000.

Ransom M, Quinn M, **Hadzikadic L**, Weaver S, Raymond R. "Relationship between Cardiac Function, Compliance, and Adenosine during Acute Endotoxin Shock in the Guinea Pig." Presented at 17th Annual Conf. on Shock: Big Sky, Montana. June 1994.