

JONATHAN D. BLACK
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EMPLOYMENT

Center for Gynecologic Oncology, Miramar, Florida

Gynecologic Oncologist, 2017-present

VitalMD, Miami, Florida

Gynecologic Oncologist, 2017-present

EDUCATION

University of Rochester School of Medicine, Rochester, New York

Medical Degree (MD), 2005-2010

Masters in Public Health (MPH), 2007-2010

Goucher College, Baltimore, Maryland

Post-Baccalaureate Premedical Program (PBPM), (2004)

University of Rochester, Rochester, New York

Bachelor of Arts in Economics (2003)

Bachelor of Arts in Film and Media Studies (2003)

University of Pittsburgh, Pittsburgh, Pennsylvania

Semester at Sea, (2001)

POSTGRADUATE TRAINING

Yale University Department of Obstetrics and Gynecology, New Haven, Connecticut

Fellowship, Gynecologic Oncology: 7/2014-6/2017

Residency: 6/2011-6/2014

Internship: 6/2010-6/2011

CERTIFICATIONS

ACLS, Certified June 2010

PROFESSIONAL SOCIETY MEMBERSHIPS

Attending Physician, Society for Gynecologic Oncology
Clinical Instructor, Association of Professors in Obstetrics and Gynecology
Member, Gold Humanism in Medicine Honor Society
Junior Member Emeritus, American Institution of Ultrasound in Medicine
American Medical Student Association (Emeritus)

AWARDS, FELLOWSHIPS, GRANTS, AND HONORS

2017- Jose Asis Memorial Award for Teaching

2015- Best Basic Science Oral Presentation- NEAGO 2015

2015- Best Poster Presentation- Yale School of Medicine Medical Education Day

2014- Society of Laparoendoscopic Surgeons Resident Achievement Award

2014- John J. Meehan – Clifford R. Miller Award from Yale University Dept. Ob/Gyn

2013- Yale University Third Year Resident Teaching Award, awarded by medical students

2012- Yale University Second Year Resident Teaching Award, awarded by first year residents

2011- Yale University First Year Resident Teaching Award, awarded by medical students

2010- The Gold Humanism Honor Society

2007- Student scholarship to attend the Family Medicine Education Consortium Regional Meeting

2007- American Medical Student Association, Local Project Grant Recipient

2007- University of Rochester Medical Humanities Small Grant Recipient, University of Rochester

2007- Creative Excellence Award for Best Creative Work Expressing Human Values in Health Care by a University Student, University of Rochester

2007- Dr. Marvin J. Hoffman Award for International Research, University of Rochester

2007- National Institutes of Health (NIH) Clinical and Translational Science Research (CTSR) Fellowship

2007- Haggerty-Friedman Pediatric Psychosocial Research Fellowship, University of Rochester

2006- University of Rochester International Summer Research Fellow, University of Rochester

EDITORIAL/PEER REVIEW

Peer Reviewer International Journal of Women's Health, March 2015-present
Peer Reviewer for Scientific Reports, March 2014-present

APPOINTMENTS

HCA/Plantation General Hospital Robotics Steering Committee, January 2019-present
Florida International University, Clinical Instructor, September 2017-present
New Haven Medical Society, Board of Governors, June 2014-June 2016
Yale Obstetrics and Gynecology Administrative Chief Resident, March 2013-June 2014
Yale Obstetrics and Gynecology Residency Education Committee, June 2012-June 2014

RESEARCH AND PRESENTATIONS

BOOK CHAPTERS

Black J, Azodi M (2015). Successful Pregnancy After Radical Trachelectomy and McDonald Cerclage Placement in a 42 year-old With Invasive Cervical Adenocarcinoma. In “Case Studies in Assisted Reproduction: Common and Uncommon Cases”, edited by Macklon et. al, Cambridge, UK, Cambridge University Press, 2015.

Black J, Roque D, Gold L, Santin A (2015). Future directions and new targets in endometrial cancer. In “Uterine Cancer,” edited by Muggia et al. Springer Publishing, 2015.

PEER-REVIEW PUBLICATIONS

Cutler A, **Black J**, Sheth S, Pathy S. When Things Go Wrong: Examining the Frequency and Aftermath of Critical Incidents Among OBGYN Residents. Connecticut Medicine. 2017; 81(5); 261-66.

Menderes G, Bonazzoli E, Bellone S, **Black J**, Altwerger G, Masserdotti A, Pettinella F, Zammataro L, Buza N, Hui P, Wong S, Litkouhi B, Ratner E, Silasi D-A, Huang GS, Azodi M, Schwartz PE, Santin AD. SYD985, a novel duocarmycin-based HER2-targeting antibody-drug conjugate, shows promising antitumor activity in epithelial ovarian carcinoma with HER2/Neu expression. Gynecol Oncol [Internet]. 2017 May 1.

Whicker M, **Black J**, Altwerger G, Menderes G, Feinberg J, Ratner E. Management of Sexuality, Intimacy, and Menopause Symptoms (SIMS) in Ovarian Cancer Patients: Expert Review. Am J Obstet Gynecol [Internet]. 2017;

Deshmukh U, McAdow M, **Black J**, Hui P, Azodi M. Isolated port site recurrence of node-negative clinical stage IB1 cervical adenocarcinoma. Gynecol Oncol Rep. 2017 May;20:54–7.

Menderes G, Bonazzoli E, Bellone S, **Black JD**, Lopez S, Pettinella F, Masserdotti A, Zammataro L, Litkouhi B, Ratner E, Silasi D-A, Azodi M, Schwartz PE, Santin AD. Efficacy of neratinib in the treatment of HER2/neu-amplified epithelial ovarian carcinoma in vitro and in vivo. Med Oncol. 2017 May;34(5):91.

Carvajal-Hausdorf DE, Schalper KA, Bai Y, **Black J**, Santin AD, Rimm DL. Objective, domain-specific HER2 measurement in uterine and ovarian serous carcinomas and its clinical significance. Gynecol Oncol. 2017 Apr;145(1):154–8.

Cocco E, Deng Y, Shapiro EM, Bortolomai I, Lopez S, Lin K, Bellone S, Cui J, Menderes G, **Black JD**, Schwab CL, Bonazzoli E, Yang F, Predolini F, Zammataro L, Altwerger G, de Haydu C, Clark M, Alvarenga J, Ratner E, Azodi M, Silasi D-A, Schwartz PE, Litkouhi B, Saltzman WM, Santin AD. Dual-Targeting Nanoparticles for In Vivo Delivery of Suicide Genes to Chemotherapy-Resistant Ovarian Cancer Cells. *Mol Cancer Ther*. 2017 Feb;16(2):323–33.

Bellone S, Bignotti E, Lonardi S, Ferrari F, Centritto F, Masserdotti A, Pettinella F, **Black J**, Menderes G, Altwerger G, Hui P, Lopez S, de Haydu C, Bonazzoli E, Predolini F, Zammataro L, Cocco E, Ferrari F, Ravaggi A, Romani C, Facchetti F, Sartori E, Odicino FE, Silasi D-A, Litkouhi B, Ratner E, Azodi M, Schwartz PE, Santin AD. Polymerase ϵ (POLE) ultra-mutation in uterine tumors correlates with T lymphocyte infiltration and increased resistance to platinum-based chemotherapy in vitro. *Gynecol Oncol*. 2017 Jan;144(1):146–52.

Altwerger G, Menderes G, **Black JD**, Azodi M. Surgical Site Infections in Gynecologic Oncology: Editorial. *Gynecol Obstet* [Internet]. 2016;6(7). Available from: <http://www.omicsonline.org/open-access/surgical-site-infections-in-gynecologic-oncology-editorial-2161-0932-1000e117.php?aid=76876>

Menderes, G., **Black, JD**, Azodi, M., 2016a. The role of minimally invasive interval debulking surgery in advanced epithelial ovarian cancer. *Expert Rev. Anticancer Ther*. 16, 899–901.

Menderes, G., Kim, S., Schwab, C.L., **Black, JD**, Azodi, M., 2016. Cervical Injection of Methylene Blue for Identification of Sentinel Lymph Nodes in Cervical Cancer. *J. Minim. Invasive Gynecol*. 23, S131.

Menderes, G., Vilaro, N., Schwab, C.L., **Black, JD**, Azodi, M., 2016b. Incidental injury and repair of obturator nerve during laparoscopic pelvic lymphadenectomy. *Gynecol. Oncol*. 142, 208.

Zhao, S., Bellone, S., Lopez, S., Thakral, D., Schwab, C., English, D.P., **Black, JD.**, Cocco, E., Choi, J., Zammataro, L., Predolini, F., Bonazzoli, E., Bi, M., Buza, N., Hui, P., Wong, S., Abu-Khalaf, M., Ravaggi, A., Bignotti, E., Bandiera, E., Romani, C., Todeschini, P., Tassi, R., Zanotti, L., Odicino, F., Pecorelli, S., Donzelli, C., Ardighieri, L., Facchetti, F., Falchetti, M., Silasi, D.-A., Ratner, E., Azodi, M., Schwartz, P.E., Mane, S., Angioli, R., Terranova, C., Quick, C.M., Edraki, B., Bilgüvar, K., Lee, M., Choi, M., Stiegler, A.L., Boggon, T.J., Schlessinger, J., Lifton, R.P., Santin, A.D., 2016. Mutational landscape of uterine and ovarian carcinosarcomas implicates histone genes in epithelial–mesenchymal transition. *Proceedings of the National Academy of Sciences* 113, 12238–12243.

English DP, Menderes G, **Black JD**, Schwab CL, Santin AD. Molecular diagnosis and molecular profiling to detect treatment-resistant ovarian cancer. *Expert Rev Mol Diagn*. 2016 Jul;16(7):769–82.

Menderes G, Schwab CL, **Black JD**, Santin AD. The Role of the Immune System in Ovarian Cancer and Implications on Therapy. *Expert Rev Clin Immunol*. 2016 Jun;12(6):681–95.

Menderes G, Schwab C, **Black JD**, Silasi D-A. Laparoscopic Resection of the Diaphragmatic Tumor Nodule for Management of Recurrent Endometrial Cancer. *J Minim Invasive Gynecol*. 2016 May;23(4):473–4.

Menderes G, Hicks C, **Black JD**, Schwab CL, Santin AD. Immune checkpoint inhibitors in gynecologic cancers with lessons learned from non-gynecologic cancers. *Expert Opin Biol Ther*. 2016 Aug;16(8):989–1004.

Cocco E, Lopez S, **Black JD**, Bellone S, Bonazzoli E, Predolini F, Ferrari F, Schwab CL, Menderes G, Zammataro L, Buza N, Hui P, Wong S, Zhao S, Bai Y, Rimm DL, Ratner E, Litkouhi B, Silasi D-A, Azodi M, Schwartz PE, Santin AD. Dual CCNE1/PIK3CA targeting is synergistic in CCNE1-amplified/PIK3CA-mutated uterine serous carcinomas in vitro and in vivo. *Br J Cancer* [Internet]. 2016 Jun 28; Available from: <http://dx.doi.org/10.1038/bjc.2016.198>

Black JD, Menderes G, Bellone S, Schwab CL, Bonazzoli E, Ferrari F, Predolini F, De Haydu C, Cocco E, Buza N, Hui P, Wong S, Lopez S, Ratner E, Silasi D-A, Azodi M, Litkouhi B, Schwartz PE, Goedings P, Beusker PH, van der Lee MMC, Timmers CM, Dokter WHA, Santin AD. SYD985, a Novel Duocarmycin-Based HER2-Targeting Antibody-Drug Conjugate, Shows Antitumor Activity in Uterine Serous Carcinoma with HER2/Neu Expression. *Mol Cancer Therapeutics*. 2016 Jun 2; Available from: <http://dx.doi.org/10.1158/1535-7163.MCT-16-0163>

Menderes G, Schwab CL, **Black JD**, Azodi M. 4: Use of methylene blue for detection of sentinel lymph nodes in cervical cancer. *Am J Obstet Gynecol*. 2016/4;214(4, Supplement):S509–10.

Albright BB, **Black JD**, Vilardo N, Schwartz PE. Correction of coagulopathy associated with non-bacterial thrombotic endocarditis (NBTE) by surgical debulking in a case of ovarian clear cell carcinoma. *Gynecol Oncol Rep*. 2016 Aug;17:13–5.

de Haydu, C., **Black, JD.**, Schwab, C. L., English, D. P. & Santin, A. D. An update on the current pharmacotherapy for endometrial cancer. *Expert Opin. Pharmacother*. 1–11 (2015).

Menderes, G., **Black, JD.**, Schwab, C. L. & Santin, A. D. Immunotherapy and targeted therapy for cervical cancer: an update. *Expert Rev. Anticancer Ther*. 1–16 (2015).

Black JD, Lopez S, Cocco E, Bellone S, Altwerger G, Schwab CL, English DP, Bonazzoli E, Predolini F, Ferrari F, Ratner E, Silasi D-A, Azodi M, Schwartz PE, Santin AD (2015). PIK3CA oncogenic mutations represent a major mechanism of resistance to trastuzumab in HER2/neu overexpressing uterine serous carcinomas. *Br J Cancer*. 2015 Sep 1.

Lopez S, Cocco E, **Black JD**, Bellone S, Bonazzoli E, Predolini F, Ferrari F, Schwab CL, English DP, Ratner E, Silasi D-A, Azodi M, Schwartz PE, Terranova C, Angioli R, Santin AD (2015). Dual HER2\PIK3CA targeting overcomes single-agent acquired resistance in HER2 amplified uterine serous carcinoma cell lines in vitro and in vivo. *Mol Cancer Therapeutics*. 2015 Sep 2.

Albright BB, Witte T, Tofte AN, Chou J, **Black JD**, Desai VB, Erekson EA. Robotic Versus Laparoscopic Hysterectomy for Benign Disease: A Systematic Review and Meta-Analysis of Randomized Trials. *J Minim Invasive Gynecol*. 2015 Aug 10

Bellone S, **Black JD**, English DP, Schwab CL, Lopez S, Cocco E, Bonazzoli E, Predolini F, Ferrari F, Ratner E, Silasi D-A, Azodi M, Schwartz PE, Santin AD (2015). Solitomab, an EpCAM/CD3 bispecific antibody construct (BiTE®), is highly active against primary uterine serous papillary carcinoma cell lines in vitro. *Am J Obstet Gynecol*. 2015 Aug 10.

Schwab C, English D, **Black JD**, Bellone S, Lopez S, Cocco E, Bonazzoli E, Bussi B, Predolini F, Ratner E, Silasi D, Azodi M, Rutherford T, Schwarts P, Santin A (2015). Neratinib shows efficacy in the treatment of HER2 amplified carcinosarcoma in vitro and in vivo. *Gynecologic Oncology*. September 2015.

Bellone S, Centritto F, **Black JD**, Schwab C, English D, Cocco E, Lopez S, Silasi D, Ratner E, Azodi M, Schwartz P, Santin A (2015). Polymerase e (POLE) ultra-mutated tumors induce robust tumor-specific CD4+ T cell responses in endometrial cancer patients. *Gynecologic Oncology*. August 2015.

Cocco E, Shapiro EM, Gasparrini S, Lopez S, Schwab CL, Bellone S, Bortolomai I, Sumi NJ, Bonazzoli E, Nicoletti R, Deng Y, Saltzman WM, Zeiss CJ, Centritto F, **Black JD**, Silasi D-A, Ratner E, Azodi M, Rutherford TJ, Schwartz PE, Pecorelli S, Santin AD. Clostridium perfringens enterotoxin C-terminal

domain labeled to fluorescent dyes for in vivo visualization of micrometastatic chemotherapy-resistant ovarian cancer. *Int J Cancer*. 2015 Jun 9.

Zhu L, Lopez S, Bellone S, **Black JD**, Cocco E, Zigras T, Predolini F, Bonazzoli E, Bussi B, Stuhmer Z, Schwab CL, English DP, Ratner E, Silasi D-A, Azodi M, Schwartz PE, Rutherford TJ, Santin AD (2015). Dacomitinib (PF-00299804), a second-generation irreversible pan-erbB receptor tyrosine kinase inhibitor, demonstrates remarkable activity against HER2-amplified uterine serous endometrial cancer in vitro. *Tumour Biol* 36:5505–5513

Altwerger G, Pritchard AM, **Black JD**, Sfakianaki AK (2015) Uterine didelphys and vaginal birth after cesarean delivery. *Obstet Gynecol* 125:157–159

Roque DM, Schwab CL, Goloubeva O, English DP, **Black JD**, Silasi DA, Azodi M, Rutherford TJ, Santin A, Schwartz PE, Ratner ES. Choice of adjuvant chemotherapy following neoadjuvant carboplatin/paclitaxel and interval debulking. *Gynecol Oncol*. Elsevier; 2015 Apr 1;137:106–7.

Black JD, Altwerger GH, Ratner E, Lu L, Silasi D-A, Azodi M, Santin AD, Schwartz PE, Rutherford TJ (2015) Management of Borderline Ovarian Tumors Based on Patient and Tumor Characteristics. *Gynecol Obstet Invest*. doi: 10.1159/000431219

Black JD, Lopez S, Cocco E, Schwab CL, English DP, Santin AD (2015) Clostridium Perfringens Enterotoxin (CPE) and CPE-Binding Domain (c-CPE) for the Detection and Treatment of Gynecologic Cancers. *Toxins* 7:1116–1125

Black JD, Roque DM, Pasternak MC, Buza N, Rutherford TJ, Schwartz PE, McCarthy S, Ratner E (2015) A Series of Malignant Ovarian Cancers Arising From Within a Mature Cystic Teratoma: A Single Institution Experience. *Int J Gynecol Cancer*. doi: 10.1097/IGC.0000000000000431

Black JD, English DP, Roque DM, Santin AD (2014) Targeted therapy in uterine serous carcinoma: an aggressive variant of endometrial cancer. *Womens Health* 10:45–57

Black JD, Yuhasz M, Lee AY. Uterine artery rupture during the second stage of labor. *Int J Gynaecol Obstet*. 2014 Feb;124(2):176.

Black JD, de Haydu C, Fan L, Sheth SS (2014) Surgical site infections in gynecology. *Obstet Gynecol Surv* 69:501–510

Nicoletti R, Lopez S, Bellone S, Cocco E, Schwab CL, **Black JD**, Centritto F, Zhu L, Bonazzoli E, Buza N, Hui P, Mezzanzanica D, Canevari S, Schwartz PE, Rutherford TJ, Santin AD (2014) T-DM1, a novel antibody-drug conjugate, is highly effective against uterine and ovarian carcinosarcomas overexpressing HER2. *Clin Exp Metastasis*. doi: 10.1007/s10585-014-9688-8

Pasternak MC, **Black JD**, Buza N, Azodi M, Garipey A (2014) An unexpected mass of the urachus: a case report. *Am J Obstet Gynecol* 211:e1–3

Black JD, Girotto JA, Chapman KE, Oppenheimer AJ (2009) When my child was born: cross-cultural reactions to the birth of a child with cleft lip and/or palate. *Cleft Palate Craniofac J* 46:545–548

Carno MA, Ellis E, Anson E, Kraus R, **Black JD**, Short R, Connolly HV (2008) Symptoms of sleep apnea and polysomnography as predictors of poor quality of life in overweight children and adolescents. *J Pediatr Psychol* 33:269–278

ORAL PRESENTATIONS

Black J, Lopez S, Bellone S, Schwab C, English D, Roque D, Silasi D, Ratner E, Azodi M, Rutherford T, Schwartz P, Santin A (2015). Mutations in the PIK3CA pathway as a determinant of trastuzumab resistance in uterine serous carcinoma, *in vitro* and *in vivo*. *Northeast Association of Gynecologic Oncology*, Kennybunkport, Maine, June 2015.

Black J, Lopez S, Bellone S, Schwab C, English D, Roque D, Silasi D, Ratner E, Azodi M, Rutherford T, Schwartz P, Santin A (2015). Mutations in the PIK3CA pathway as a determinant of trastuzumab resistance in uterine serous carcinoma, *in vitro* and *in vivo*. *Society for Reproductive Investigation Annual Conference*, San Francisco, California, March 2015.

Cutler A, **Black J**, Shaw J, Pathy S, Sheth S (2015). Preventing Internal Combustion: Healing the Healers Following Significant Events in OB-GYN. CREOG and APOG Annual Meeting, Power Up: Keeping the Energy in Education, San Antonio, March 3-6 2015.

Black J, Cutler A, Pathy S (2015). Critical Events in Obstetrics and Gynecology. How we should deal with the elephant in the room. APOG Martin L. Stone Faculty Development Seminar, Palm Springs, California, January, 2015.

Black J (2013). Presentation and Management of Borderline Ovarian Tumors; Should Mucinous Tumors Be Managed Differently? *First Annual State of Connecticut Resident Research Day, Danbury Hospital, Danbury, Connecticut*.

Black J (2012). A Case of Spontaneous Rupture of Uterine Artery in the Peripartum Period. *American College of Obstetrics and Gynecology District I and III Annual Meeting*. Stump the Professor (October 6, 2012).

OTHER PRESENTATIONS AND PUBLICATIONS

Black J (2007). India: Through My Eyes. Photography Exhibit. *Edward G. Miner Library*, Rochester, New York, April 1-May 31, 2007

Black J (2007). India: Photographs of a Medical Student. *Global Pulse International Health Journal*, Spring 2007.

Black J (2007). Writings and Photographs. *Turtlequill Literary Journal*, University of Rochester, Spring 2007, Fall 2007.

PATENTS

Altwerger, G., **Black, J.**, 2014. "Progesterone Impregnated Ring Pessary for Shortened Cervical Length and Preventing Preterm Labor." Filed 9/29/14. International Patent pending.