

## CURRICULUM VITAE

**Aniko Szabo, Ph.D.**

**Associate Professor of Population Health, Director of the Biostatistics Consulting Service  
Division of Biostatistics  
Institute for Health and Society  
Medical College of Wisconsin**

### EDUCATION:

09/1989 – 06/1994 M.S. Mathematics, Eötvös University, Budapest, Hungary  
08/1994 – 05/1997 M.S. Statistics, University of Memphis, Memphis, TN  
08/1997 – 05/1998 Ph.D. Applied Statistics, University of Memphis, Memphis, TN

### POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/1999 – 01/2000 Postdoctoral Fellow, Huntsman Cancer Institute, University of Utah, Salt Lake City, UT

### FACULTY APPOINTMENTS:

01/2000 – 06/2003 Research Instructor, University of Utah, Department of Oncological Sciences, Salt Lake City, UT  
07/2003 – 05/2007 Research Assistant Professor, University of Utah, Department of Oncological Sciences, Salt Lake City, UT  
06/2007 – Associate Professor, Medical College of Wisconsin, Department of Population Health, Division of Biostatistics, Milwaukee, WI

### ADMINISTRATIVE APPOINTMENTS:

10/2004 – 05/2007 Director of Biostatistics Shared Resource, Huntsman Cancer Institute, Salt Lake City, UT  
06/2007 – Director of Biostatistical Consulting Service, Medical College of Wisconsin, Milwaukee, WI

### EDUCATIONAL ADMINISTRATIVE APPOINTMENTS

7/2011 – 5/2013 Recruitment Director of Biostatistics PhD Program, Medical College of Wisconsin, Milwaukee, WI

### EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

#### Editorships:

03/2002 Guest Editor for *Mathematical Biosciences*, special issue “Quantitative Analysis of Gene Expression Data”

#### Editorial Boards:

10/2007 – Editorial board member of *Biology Direct*, Mathematical Biology section

09/2013 – Associate editor of *Dysphagia*

#### Journal Reviews

02/2000 – Journal of Theoretical Biology  
05/2001 – Mathematical Biosciences  
08/2002 – Bioinformatics  
06/2002 – Genome Biology  
02/2003 – BMC Bioinformatics / BMC Genomics  
05/2003 – Journal of Biopharmaceutical Statistics  
02/2007 – Statistics in Medicine  
01/2011 – Journal of the American Statistical Association  
08/2013 – Radiation Research  
09/2013 – Journal of Health Care for the Poor and Underserved  
12/2013 – Molecular Biology and Evolution  
01/2014 – Dysphagia  
04/2014 – PLOSone

#### **NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

02/2008 Ad-hoc Member, NIH BMRD Study Section  
06/2010 NIH/NIEHS Special panel: Engineered Nanomaterials RFA  
02/2011 Ad-hoc Member, NIH CICS Study Section  
10/2012 Ad-hoc Member, NIH CICS Study Section  
06/2013 Ad-hoc Member, NIH CICS Study Section  
02/2014 Ad-hoc Member, NIH CICS Study Section  
10/2014 Ad-hoc Member, NIH CICS Study Section  
06/2015 Ad-hoc Member, NIH CICS Study Section

#### **RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**

##### **A. Active**

Title: Clinical and Translational Research Institute  
Source: NIH  
Role: Co-investigator  
Dates: September 15, 2015 - March 31, 2020

Title: Enhancement of the Therapeutic Ratio by Enalapril for  
Radiotherapy of Lung Cancer  
Source: NIH/NCI  
Role: Co-investigator  
Dates: November 5, 2012 – November 4, 2017

Title: Mitigation of Radiation Pneumonitis and Fibrosis  
Source: Zablocki Veterans Affairs Medical Center  
Role: Co-investigator  
Dates: August 1, 2013 – July 31, 2018

Title: Dental Sealant Placements on Children's Teeth: Assessing Medicaid Policy Change  
Source: NIH/NIDCR  
Role: Co-investigator  
Dates: September 15, 2014 – August 31, 2016

## **B. Pending**

Title: Osteoporosis Treatment in a Midwestern Collaborative Patient Registry: Measuring Osteoporosis Care and Guideline Adherence Using Electronic Health Records  
Source: NIH/ Arthritis and Musculoskeletal and Skin Disease  
Role: Co-investigator  
Dates: April 1, 2016 – March 31, 2018

Title: Immigrant Children's Oral Health and Dental Service Utilization  
Source: NIH/NIDCR  
Role: Sub-contract PI  
Dates: April 1, 2016 – March 31, 2019

Title: Efficacy of Analgesics Planning Grant  
Source: NIH/NIDCR  
Role: Sub-contract PI  
Dates: April 1, 2016 – March 31, 2017

Title: A Novel Pedaling Paradigm to Improve Lower Limb Rehabilitation Post-Stroke  
Source: NIH/ Child Health and Human Development  
Role: Co-investigator  
Dates: October 1, 2015 – June 30, 2020

## **C. Prior**

Title: Clinical and Translational Research Institute  
Source: NIH  
Role: Co-investigator  
Dates: July 1, 2010 - June 30, 2015

Title: Thrombolysis in Pediatric Stroke (TIPS) Study  
Source: NIH  
Role: Co-investigator  
Dates: January 1, 2011 - December 31, 2013

Title: Anesthetic-Induced Cardiac Preconditioning, Core A  
Source: NIH  
Role: Co-investigator  
Dates: August 1, 2008 - July 31, 2013

Title: Adolescence to Young Adulthood Dental Service Utilization and Neighborhood Characteristics: A Multilevel Approach  
Source: NIH/NIDCR  
Role: Subcontract PI  
Dates: September 1, 2011 - May 30, 2013

Title: Medications prescribed in emergency departments for non-traumatic dental conditions  
Source: NIH/NIDCR  
Role: Subcontract PI  
Dates: July 1, 2010 - June 30, 2012

Title: Clinical and Translational Research Award, Supplement  
Source: NIH  
Role: Co-investigator  
Dates: April 1, 2011 - March 31, 2012

Title: Relationship of Postpartum Sleep Deprivation to Later Mental Health in Lower-Income Urban Women  
Source: RWJF  
Role: Subcontract PI  
Dates: September 1, 2008 - August 31, 2010

Title: Understanding Racial Differences In The Natural History Of Prostate Cancer  
Source: NIH  
Role: Principal Investigator  
Dates: January 1, 2006 - December 31, 2008

Title: The Impact of a Policy Change in Wisconsin Authorizing Non-Dental Providers to Bill Medicaid for the Application of Fluoride Varnish to Children's Teeth  
Source: HRSA  
Role: Subcontract PI  
Dates: February 1, 2008 - January 31, 2009

Title: Biological Breast Cancer Classification by RT-PCR  
Source: NIH  
Role: Statistician  
Dates: July 1, 2005 - June 30, 2010

Title: Cancer Center Support Grant – Huntsman Cancer Institute

Source: NIH  
Role: Core Director  
Dates: May 9, 1997 - March 30, 2008

Title: Molecular, Clinical Approaches to Colon Cancer Precursors  
Source: NIH  
Role: Statistician  
Dates: August 10, 1998 – August 31, 2008

Title: Methods to Control Transdermal Iontophoresis Variability  
Source: NIH  
Role: Statistician  
Dates: January 1, 2003 - December 31, 2007

Title: Survival Effects of Prostate Cancer Surveillance  
Source: NIH  
Role: Co-investigator  
Dates: August 15, 2002 – July 31, 2006

Title: Retinoid Biosynthesis in Colon Tumorigenesis  
Source: American Cancer Society  
Role: Statistician  
Dates: July 1, 2002 – June 30, 2006

Title: Molecular Diagnostics for Breast Cancer  
Source: NIH  
Role: Statistician  
Dates: July 1, 2002 – June 30, 2005

Title: Translational Studies in the Dystrophinopathies  
Source: NIH  
Role: Statistician  
Dates: June 15, 2002 – June 14, 2005

Title: Chemoprevention of Duodenal Polyps in FAP  
Source: NIH  
Role: Statistician  
Dates: June 1, 1999 – March 03, 2004

Title: cDNA Microarray Analysis of Mesenchymal Tumors:  
Investigation of Genomic Expression to Develop a Taxonomic  
Classification  
Source: Orthopedic Research & Education Foundation  
Role: Statistician  
Dates: July 1, 2003 - June 30, 2005

**INVITED LECTURES/WORKSHOPS/PRESENTATIONS (must be invited to participate):**

**International**

Szabo, A. Testing for Trend with Clustered Binary Data Using Stochastic Ordering, ICOMAS 2012 conference, Memphis, TN, 5/15/2012

**National**

Szabo, A. Variable Selection and Pattern Recognition with Microarray Data, Johns Hopkins University School of Public Health, Department of Biostatistics Seminar, Baltimore, MD, 10/17/2001.

Szabo, A. Variable Selection and Pattern Recognition with Microarray Data, UCLA Department of Statistics Seminar, Los Angeles, CA, 10/23/2001

Szabo, A. Estimating an oncogenetic tree, Minisymposium on Cancer Modelling, SIAM Conference on Life Sciences, Boston, MA, 03/09/2002

Szabo, A. Variable Selection and Pattern Recognition with Microarray Gene Expression Data, University of Oklahoma, 04/25/2002.

Szabo, A. Strength through Unity: Multivariate Approach to Gene Selection, NCRR Bioninformatics Conference, Boston, MA, 09/28/2002.

Szabo, A. Modeling prostate cancer incidence, University of Rochester, Department of Biostatistics and Computational Biology seminar, Rochester, NY, 03/10/2004.

Szabo, A. The effect of TURP on prostate cancer incidence, CISNET meeting, Bethesda, MD, 07/06/2006.

Szabo, A. Test for stochastic ordering for correlated binary data with variable cluster sizes, University of Indianapolis (IUPUI), Statistics Seminar, Indianapolis, IN, 11/16/2006.

Szabo, A. Modeling Prostate Cancer Incidence, A.Y. Yakovlev Memorial conference, Rochester, NY, 6/7/2009.

**Local**

Szabo, A. Variable Selection and Pattern Recognition with Microarray Data, Joint Meeting, Agilent Technologies and HCI, Salt Lake City, UT., 10/23/2001.

Szabo, A. Modeling Prostate Cancer Incidence, Division of Biostatistics Seminar Series, Medical College of Wisconsin, 11/27/2007.

Szabo, A. Statistical issues in genetic studies of feto-maternal incompatibility, Division of Biostatistics Seminar Series, Medical College of Wisconsin, 9/15/2009.

Szabo, A. Reliability and Validity, Division of Biostatistics Seminar Series, Medical College of Wisconsin, 4/8/2010.

Szabo, A. Introduction to R, MILWASA Workshop, Milwaukee, WI, 9/25/2011

Szabo, A. Modeling correlated multinomial data, Division of Biostatistics Seminar Series, Medical College of Wisconsin, 2/7/2014.

**PEER REVIEWED WORKSHOPS/PRESENTATIONS (must have abstract or submission peer reviewed before asked to present):**

**National**

Szabo A., Okunseri E., Thorpe JM., Xiang Q., Okunseri C. Trends in Antibiotics and Analgesics Prescribed for Non-Traumatic Dental Conditions Visits in Emergency

Department in the United States. Presented as a poster at the AcademyHealth Annual Meeting, Seattle, WA, 6/13/2011

**COMMITTEE SERVICE:**

**Medical College Committees**

- |                   |   |
|-------------------|---|
| 08/2008 – 08/2011 | Program Review Committee member, Graduate School, Medical College of Wisconsin, Milwaukee, WI   |
| 06/2010 – 06/2014 | CTSI Protocol Review Committee member, Medical College of Wisconsin, Milwaukee, WI              |
| 08/2011 – present | Graduate Studies Committee member, Graduate School, Medical College of Wisconsin, Milwaukee, WI |
| 08/2012 – 06/2015 | Research Affairs Committee member, Medical College of Wisconsin, Milwaukee, WI                  |
| 08/2013 – present | Cancer Center Scientific Review Committee member, Medical College of Wisconsin, WI              |
| 07/2013 – present | Faculty IT committee member, vice-president in 2014, Medical College of Wisconsin, WI           |

**Biostatistics Division Committees:**

- |                |                                       |
|----------------|---------------------------------------|
| 2009, 2012     | Member, Computer Committee            |
| 2009 – 2010    | Chair, Newsletter Committee           |
| 2009 – 2010    | Chair, Graduate Exam Committee        |
| 2009 – 2010    | Chair, Continuing Education Committee |
| 2010 – 2011    | Member, Poster Day Committee          |
| 2011 – present | Member, Graduate Committee            |

**MEDICAL COLLEGE TEACHING ACTIVITIES**

**Graduate Student Education**

- |                |                                 |
|----------------|---------------------------------|
| Fall 2007      | Statistical Methods & Models I  |
| Fall 2008-2010 | Biostatistical Computing        |
| Summer 2010    | Statistical Consulting          |
| Spring 2011    | Theory of Consulting            |
| Summer 2011    | Statistical Consulting          |
| Fall 2011      | Clinical Trials                 |
| Spring 2013    | Statistical Methods & Models II |
| Fall 2014      | Biostatistics I                 |
| Fall 2015      | Biostatistics I                 |

**Continuing Medical Education**

- |           |   |
|-----------|---|
| Fall 2008 | Biostatistics – developed a series of 12 CME lectures for MCW fellows and residents |
| 8/14/2009 | “Concepts on the way from data to decisions” CME lecture                            |

12/11/2009	“Multiple Testing” CME lecture
2/12/2010	“Designing Clinical Trials” CME lecture
11/28/2010	“Simple Statistics with Excel” CME lecture
2/22/2011	“Simple Statistics with Excel” CME lecture

**EXTRAMURAL TEACHING (e.g. at Marquette, UWM, etc.):**

**Graduate Student Education**

Summer 1998	Introduction to Probability Theory, The University of Memphis
Summer 1999	Introduction to Probability, University of Utah
Fall 2000 – 2006	Introductory Biostatistics for Basic Science graduate students, University of Utah

**Continuing Medical Education**

Fall 2004, 2006	Biostatistics - a series of 6 CME lectures to University of Utah Radiation Oncology residents
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**MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:**

**Graduate Students**

Ph.D/M.S. Committees

Jo-Ann Nesiamia	07/2007 – 07/2008	MS Epidemiology program
Amanda Brandow	09/2007 – 06/2008	MS Epidemiology program
Colin Strub	10/2008 – 06/2009	MS Epidemiology program
Rodney Sparapani	07/2009 – 06/2011	PhD Biostatistics program
Peng He	08/2012 – 06/2014	PhD Biostatistics program
Cynthia Kay	03/2013 – 05/2014	MS CTSI program
Nathan Thompson	03/2013 – 05/2014	MS CTSI program
Rahul Nanchal	03/2013 – 05/2014	MS CTSI program
Jianing Li	09/2013 – 05/2014	PhD Biostatistics program
Lubna Chaudhary	09/2014 –	MS CTSI program

**Clinical/Research Fellows**

Amy Zosel	9/2011 – 8/2013	K12 program, MCW
Jennifer Strande	9/2011 – 8/2013	K12 program, MCW
Juan Figeroa	9/2013 – 5/2014	Clinical Research Scholar
Lilani Perera	9/2013 – 8/2014	Clinical Research Scholar
Jayshil Patel	9/2013 – 8/2015	Clinical Research Scholar
Arndt Guentsch	9/2015 -	Clinical Research Scholar

**EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:**



Jef Huntington            01/2006 – 07/2006    MStat Biostatistics, University of Utah  
Mi-Young Deidrich       06/2006 – 03/2007    MStat Mathematics, University of Utah

## **BIBLIOGRAPHY**

### **REFEREED JOURNAL PUBLICATIONS/ORIGINAL PAPERS**

1. **SZABO, A.**, Yakovlev, A. Preferred sequences of genetic events in carcinogenesis: Quantitative aspects of the problem, Journal of Biological Systems **9**(2), 105–121, 2001.
2. **SZABO, A.**, Boucher, K., Estimating an oncogenetic tree when false negatives and positives are present, Math Biosci **176**(2), 219–236, 2002.
3. **SZABO, A.**, Boucher, K., Carroll, W.L., Klebanov, L.B., Tsodikov, A.D., Yakovlev, A.Y., Variable selection and pattern recognition with gene expression data generated by the microarray technology, Math Biosci **176**(1), 71–98, 2002.
4. Chilingaryan, A., Gevorgyan, N., Vardanyan, A., Jones, D., **SZABO, A.**, Multivariate approach for selecting sets of differentially expressed genes, Math Biosci **176**(1), 59–69, 2002.
5. Tsodikov, A., **SZABO, A.**, Jones, D., Adjustments and measures of differential expression for microarray data, Bioinformatics **18**(2), 251–260, 2002.
6. Moos, P.J., Raetz, E.A., Carlson, M.A., **SZABO, A.**, Smith, F.E., Willman, C., Wei, Q., Hunger, S.P., Carroll, W.L., Identification of gene expression profiles that segregate patients with childhood leukemia, Clin Cancer Res **8**(10), 3118–3130, 2002.
7. **SZABO, A.**, Boucher, K., Jones, D., Tsodikov, A.D., Klebanov, L.B., Yakovlev, A.Y., Multivariate exploratory tools for microarray data analysis, Biostatistics **4**(4), 555–567, 2003.
8. **SZABO, A.**, Perou, C.M., Karaca, M., Perreard, L., Quackenbush, J.F., Bernard, P.S., Statistical modeling for selecting housekeeper genes, Genome Biol **5**(8), R59, 2004.
9. Firpo, M.A., Rollins, M.D., **SZABO, A.**, Gull, J.D., Jackson, J.D., Shao, Y., Glasgow, R.E., Mulvihill, S.J., A conscious mouse model of gastric ileus using clinically relevant endpoints, BMC Gastroenterol **5**, 18, 2005.
10. Joyner, D.E., Wade, M.L., **SZABO, A.**, Bastar, J., Coffin, C.M., Albritton, K.H., Bernard, P.S., Randall, R.L., Discriminate gene lists derived from cDNA microarray profiles of limited samples permit distinguishing mesenchymal neoplasia ex vivo, J Cancer Res Clin Oncol **131**(3), 137–146, 2005.

11. Lee, C.M., **SZABO, A.**, Shrieve, D.C., Macdonald, O.K., Gaffney, D.K., Frequency and effect of adjuvant radiation therapy among women with stage I endometrial adenocarcinoma, JAMA **295**(4), 389–397, 2006.
12. Perreard, L., Fan, C., Quackenbush, J.F., Mullins, M., Gauthier, N.P., Nelson, E., Mone, M., Hansen, H., Buys, S.S., Rasmussen, K., Orrico, A.R., Dreher, D., Walters, R., Parker, J., Hu, Z., He, X., Palazzo, J.P., Olopade, O.I., **SZABO, A.**, Perou, C.M., Bernard, P.S., Classification and risk stratification of invasive breast carcinomas using a real-time quantitative RT-PCR assay, Breast Cancer Res **8**(2), R23, 2006.
13. Tsodikov, A., **SZABO, A.**, Wegelin, J., A population model of prostate cancer incidence, Stat Med **25**(16), 2846–2866, 2006.
14. Tward, J.D., Lee, C.M., Pappas, L.M., **SZABO, A.**, Gaffney, D.K., Shrieve, D.C., Survival of men with clinically localized prostate cancer treated with prostatectomy, brachytherapy, or no definitive treatment: impact of age at diagnosis, Cancer **107**(10), 2392–2400, 2006.
15. Tward, J.D., Wendland, M.M.M., Shrieve, D.C., **SZABO, A.**, Gaffney, D.K., The risk of secondary malignancies over 30 years after the treatment of non-Hodgkin lymphoma, Cancer **107**(1), 108–115, 2006.
16. Wong, R.F., Tuteja, A.K., Haslem, D.S., Pappas, L., **SZABO, A.**, Ogara, M.M., DiSario, J.A., Video capsule endoscopy compared with standard endoscopy for the evaluation of small-bowel polyps in persons with familial adenomatous polyposis (with video), Gastrointest Endosc **64**(4), 530–537, 2006.
17. Mullins, M., Perreard, L., Quackenbush, J.F., Gauthier, N., Bayer, S., Ellis, M., Parker, J., Perou, C.M., **SZABO, A.**, Bernard, P.S., Agreement in breast cancer classification between microarray and quantitative reverse transcription PCR from fresh-frozen and formalin-fixed, paraffin-embedded tissues, Clin Chem **53**(7), 1273–1279, 2007.
18. Yu, M.K., Bergonia, H., **SZABO, A.**, Phillips, J.D., Progressive disease in chronic lymphocytic leukemia is correlated with the DNA methylation index, Leuk Res **31**(6), 773–777, 2007.
19. Brown, A.P., Chen, J., Hitchcock, Y.J., **SZABO, A.**, Shrieve, D.C., Tward, J.D., The Risk of Second Primary Malignancies Up to Three Decades after the Treatment of Differentiated Thyroid Cancer, J Clin Endocrinol Metab, **93**, 504–515, 2007.
20. Etzioni, R., Tsodikov, A., Mariotto, A., **SZABO, A.**, Falcon, S., Wegelin, J., Ditommaso, D., Karnofski, K., Gulati, R., Penson, D., Feuer, E., Quantifying the role of PSA screening in the US prostate cancer mortality decline, Cancer Causes Control, **19**, 175–181, 2007.
21. Hazard, L., Tward, J.D., **SZABO, A.**, Shrieve, D.C., Radiation therapy is associated with

improved survival in patients with pancreatic adenocarcinoma: Results of a study from the surveillance, epidemiology, and end results (SEER) registry data, Cancer **110**(10), 2191–2201, 2007.

22. Lee, C.M., **SZABO, A.**, Shrieve, D.C., Macdonald, O.K., Tward, J.D., Skidmore, T.B., Gaffney, D.K. (2007), 'Descriptive nomograms of adjuvant radiotherapy use and patterns of care analysis for stage I and II endometrial adenocarcinoma: A surveillance, epidemiology, and end results population study.', Cancer **110**(9), 2092–2100, 2007.
23. Hitchcock Y.J., Tward J.D., **SZABO A.**, Bentz B.G., Shrieve D.C. Relative Contributions of Radiation and Cisplatin-Based Chemotherapy to Sensorineural Hearing Loss in Head-and-Neck Cancer Patients. Int J Radiat Oncol Biol Phys, 2008.
24. Okunseri, C., **SZABO A.**, Jackson, S., Pajewski, N.M., Garcia, R.I. Increased Children's Access to Fluoride Varnish Treatment by involving Medical Care Providers: Effect of a Medicaid Policy Change. Health Services Research, 2009.
25. Everson C. A., **SZABO A.** Recurrent restriction of sleep and inadequate recuperation induce both adaptive changes and pathological outcomes. Am J Physiol Regul Integr Comp Physiol **297**(5) R1430–R1440, 2009.
26. McGuire J., **SZABO A.**, Jackson S., Bradley T. G., Okunseri C. Erosive tooth wear among children in the United States: relationship to race/ethnicity and obesity. Int J Paediatr Dent **19**(2) 91–98, 2009.
27. McMullin B. T., Rhee J. S., Pintar F. A., **SZABO A.**, Yoganandan N. Facial fractures in motor vehicle collisions: epidemiological trends and risk factors. Arch Facial Plast Surg **11**(3) 165–170, 2009.
28. Migrino R. Q., Christenson R., **SZABO A.**, Bright M., Truran S., Hari P. Prognostic implication of late gadolinium enhancement on cardiac MRI in light chain (AL) amyloidosis on long term follow up. BMC Med Phys **9**, 5, 2009.
29. Noyce M., **SZABO A.**, Pajewski N. M., Jackson S., Bradley T. G., Okunseri C. Primary language spoken at home and children's dental service utilization in the United States. J Public Health Dent **69**(4) 276–283, 2009.
30. Trivedi H., Daram S., **SZABO A.**, Bartorelli A. L., Marenzi G. High-dose N-acetylcysteine for the prevention of contrast-induced nephropathy. Am J Med **122**(9) 874.e9–874.15, 2009.
31. Stiehl J. B., Jackson S., **SZABO A.** Multi-factorial analysis of time efficiency in total knee arthroplasty. Comput Aided Surg 1–5, 2009.
32. **SZABO A.**, George E. On the use of stochastic ordering to test for trend with clustered binary data. Biometrika **97**(1) 95–108, 2010.

33. Feiring A. J., Krahn M., Nelson L., Wesolowski A., Eastwood D., **SZABO A.** Preventing leg amputations in critical limb ischemia with below-the-knee drug-eluting stents: the PaRADISE (PReventing Amputations using Drug eluting StEnts) trial. J Am Coll Cardiol **55**(15) 1580–1589, 2010.
34. Guralnick M. L., Grimsby G., Liss M., **SZABO A.**, O'Connor R. C. Objective differences between overactive bladder patients with and without urodynamically proven detrusor overactivity. Int Urogynecol J Pelvic Floor Dysfunct **21**(3) 325–329, 2010.
35. Trivedi H., Nadella R., **SZABO A.** Hydration with Sodium Bicarbonate for the prevention of contrast-induced nephropathy: A meta-analysis of randomized controlled trials. Clinical Nephrology, **74**, 288-296, 2010.
36. Crosby, M. A., Tward, J. D., **SZABO A.**, Lee, C. M., Gaffney, D. K. Does brachytherapy improve survival in addition to external beam radiation therapy in patients with high risk stage I and II endometrial carcinoma? American journal of clinical oncology, **33**, 364-369, 2010.
37. Duerr, C. U., Salzman, N. H., Dupont, A., **SZABO A.**, Normark, B. H., Normark, S., Locksley, R. M., Mellroth, P., Hornef, M. W. Control of intestinal Nod2-mediated peptidoglycan recognition by epithelium-associated lymphocytes. Mucosal immunology **4**, 325-334, 2011.
38. Okunseri, C., **SZABO, A.**, Garcia, R. I., Jackson, S. & Pajewski, N. M. Provision of fluoride varnish treatment by medical and dental care providers: variation by race/ethnicity and levels of urban influence, Journal of public health dentistry **70**(3), 211-219, 2010.
39. Zhi, H. Y., Hou, S. W., Li, R. S., Basir, Z., Xiang, Q., **SZABO A.**, Chen, G. PTPH1 cooperates with vitamin D receptor to stimulate breast cancer growth through their mutual stabilization. Oncogene, **30**, 1706-1715, 2011.
40. Ham H. S., Bartolo A., Corley M., Rajendran G., **SZABO A.**, Swanson S. Exploring the relationship between gestural recognition and imitation: evidence of dyspraxia in Autism Spectrum Disorders. Journal of Autism and Developmental Disorders, **41**, 1-12, 2011.
41. Olteanu H., Fenske T., Harrington A., **SZABO A.**, He, P., Kroft, S. CD23 Expression in Follicular Lymphoma: Clinicopathologic Correlations. American Journal of Clinical Pathology, **135**, 46-53, 2011.
42. Thall P.F., **SZABO A.**, Nguyen H.Q., Amlie-Lefond C.M., Zaidat O.O. Optimizing the concentration and bolus of a drug delivered by continuous infusion. Biometrics, **67**(4) 1638–1646, 2011.
43. Curtis, B. R., Sullivan, M. J., Holyst, M. T., **SZABO, A.**, Bougie, D. W., Aster, R. H.

HNA-3a-specific antibodies recognize choline transporter-like protein-2 peptides containing arginine, but not glutamine at Position 154., Transfusion **51**(10), 2168-2174, 2011.

44. Everson, C., **SZABO, A.** Repeated Exposure to Severely Limited Sleep Results in Distinctive and Persistent Physiological Imbalances in Rats, PLoS One, **6**(8), e22987, 2011.
45. Hoch, A. Z., Papanek, P., **SZABO, A.**, Widlansky, M. E., Schimke, J. E., Gutterman, D. D. Association between the female athlete triad and endothelial dysfunction in dancers., Clin J Sport Med **21**(2), 119-125, 2011.
46. Hoch, A. Z., Papanek, P., **SZABO, A.**; Widlansky, M. E.,Gutterman, D. D. Folic Acid Supplementation Improves Vascular Function in Professional Dancers With Endothelial Dysfunction, PM&R, **3**(11), 1005-1012, 2011.
47. Okunseri, C., Pajewski, N. M., Jackson, S., **SZABO, A.** Wisconsin Medicaid enrollees' recurrent use of emergency departments and physicians' offices for treatment of nontraumatic dental conditions, J Am Dent Assoc **142**(5), 540-550, 2011.
48. Okunseri C, Okunseri E, Gonzalez C, Visotcky A, **SZABO, A.** Erosive Tooth Wear and Consumption of Beverages among Children in the United States. Caries Research **45**(2), 130-135, 2011.
49. Wu, H., Sultana, R., Taylor, K. B., **SZABO, A.** A Prospective Randomized Double-Blinded Pilot Study to Examine the Effect of Botulinum Toxin Type A Injection Versus Lidocaine/Depomedrol Injection on Residual and Phantom Limb Pain: Initial Report, Clin J Pain, **28**(2), 108-112, 2012.
50. Okunseri C., Okunseri E., Thorpe J.M., Xiang Q., **SZABO, A.** Medications prescribed in emergency departments for nontraumatic dental condition visits in the United States. Med Care **50**(6), 508-12, 2012.
51. Turagam M.K., Velagapudi P., Visotcky A., **SZABO, A.** , Kocheril A.G. African Americans have the highest risk of in-hospital mortality with atrial fibrillation related hospitalizations among all racial/ethnic groups: A nationwide analysis. Int J Cardiol. **158**(1), 165-166, 2012.
52. Trivedi H., **SZABO, A.** , Hariharan S. Declining rates of deceased donor renal transplantation in the United States over successive years of listing. Am J Med. **125**(1), 57-65, 2012.
53. Turagam M.K., Velagapudi P., **SZABO, A.** , Visotcky A., Kocheril A.G. Survivors of sudden cardiac death with history of depression are not at significantly greater risk of recurrent arrhythmias and death. Int J Cardiol. **157**(3), 445-446, 2012.

54. Medhora M., Gao F., Fish B.L., Jacobs E.R., Moulder J.E., **SZABO, A.** Dose-modifying factor for captopril for mitigation of radiation injury to normal lung. J Radiat Res. **53**(4), 633-640, 2012.
55. Peterson J.A., Pechauer S.M., Gitter M.L., **SZABO, A.**, Curtis B.R., Aster R.H. The human platelet antigen-21bw is relatively common among Asians and is a potential trigger for neonatal alloimmune thrombocytopenia. Transfusion **52**(4), 915-916, 2012.
56. Palatnik A., Strawn E, **SZABO, A.**, Robb P. What is the optimal follicular size before triggering ovulation in intrauterine insemination cycles with clomiphene citrate or letrozole? An analysis of 988 cycles. Fertil Steril. **97**(5), 1089-1094.e3, 2012.
57. Bhagavatula, P., Xiang, Q., **SZABO, A**, Eichmiller, F., Kuthy, R.A., Okunseri C.E. Rural-urban differences in dental service use among children enrolled in a private dental insurance plan in Wisconsin: analysis of administrative data. BMC Oral Health **12**, 58, 2012.
58. Gao F, Fish BL, **SZABO, A**, Doctrow SR, Kma L, Molthen RC, Moulder JE, Jacobs ER, Medhora M. Short-term treatment with a SOD/catalase mimetic, EUK-207, mitigates pneumonitis and fibrosis after single-dose total-body or whole-thoracic irradiation. Radiat Res **178**(5), 468-480, 2012.
59. Bhagavatula P, Xiang Q, Eichmiller F, **SZABO, A**, Okunseri C. Racial/ethnic disparities in provision of dental procedures to children enrolled in Delta Dental insurance in Milwaukee, Wisconsin. J Public Health Dent, 2012 Epub ahead of print
60. Han D.P., **SZABO, A.** Flashes, floaters, and oral fluoroquinolones: Is retinal detachment a worry? JAMA Ophthalmol. **131**(1), 91-93, 2013.
61. Gao F, Narayanan J, Joneikis C, Fish BL, **SZABO, A**, Moulder JE, Molthen RC, Jacobs ER, Rao RN, Medhora M. Enalapril mitigates focal alveolar lesions, a histological marker of late pulmonary injury by radiation to the lung. Radiat Res. **179**, 465-474, 2013.
62. Jensen ES, Allen KP, Henderson KS, **SZABO, A**, Thulin JD. PCR testing of a ventilated caging system to detect murine fur mites, J Am Assoc Lab Anim Sci **52**(1), 28-33, 2013.
63. Kim JE, Weber P, **SZABO, A.** Medical malpractice claims related to cataract surgery complicated by retained lens fragments (an American Ophthalmological Society Thesis) Trans Am Ophthalmol Soc **110**, 94-116, 2012.
64. Leiker AJ, Yen TWF, Eastwood DC, Doffek KM, **SZABO, A**, Evans DB, Wang TS. Factors That Influence Parathyroid Hormone Half-life: Determining if New Intraoperative Criteria Are Needed, JAMA Surg **148**(7), 602-606, 2013.
65. McElroy LM, Juern JJ, Bertleson A, Xiang Q, **SZABO, A.**, Weigelt J. A single urban center experience with adult pedestrians struck by motor vehicles, WMJ **112**(3), 117-22,

2013.

66. Okunseri C, Okunseri E, Chilmaza CA, Harunani S, Xiang Q, **SZABO, A.** Racial and ethnic variations in waiting times for emergency department visits related to nontraumatic dental conditions in the United States. J Am Dent Assoc 144(7), 828-36, 2013.
67. Okunseri C, Okunseri E, Fischer MC, Sadeghi SN, Xiang Q, **SZABO, A.** Nontraumatic dental condition-related visits to emergency departments on weekdays, weekends and night hours: findings from the National Hospital Ambulatory Medical Care survey. Clin Cosmet Investig Dent 5, 69-76, 2013.
68. Okunseri C, Okunseri E, Garcia RI, Visotcky A, **SZABO, A.** Predictors of Dental Care Use: Findings From the National Longitudinal Study of Adolescent Health., J Adolesc Health, 53(5), 663—670, 2013.
69. Pathak Y, Kopell BH, **SZABO A,** Rainey C, Harsch H, Butson CR. The role of electrode location and stimulation polarity in patient response to cortical stimulation for major depressive disorder, Brain Stimul, 6(3), 254—260, 2013.
70. Ryan P, Maierle D, Csuka ME, Thomson A, **SZABO, A.** Computer-Based Intervention to Enhance Self-Management of Calcium and Vitamin D Intake in Women West J Nurs Res., 35(8), 986—1010, 2013.
71. Beyer KMM, Kaltenbach A, **SZABO, A,** Bogar S, Nieto FJ, Malecki KM. Exposure to neighborhood green space and mental health: evidence from the Survey of the Health of Wisconsin, Int J Environ Res Public Health, 11(3), 3453—3472, 2014.
72. Guenther M, James R, Marks J, Zhao S, **SZABO, A,** Kidambi S. Adiposity distribution influences circulating adiponectin levels, Transl Res, 164(4), 270-277, 2014.
73. Lakshmikanthan S, Zieba BJ, Ge Z-D, Momotani K, Zheng X, Lund H, Artamonov MV, Maas JE, **SZABO A,** Zhang DX, Auchampach JA, Mattson DL, Somlyo AV, Chrzanowska-Wodnicka M. Ras-Related Protein 1 in Smooth Muscle and Endothelium Is Required for Maintenance of Vascular Tone and Normal Blood Pressure, Arterioscler Thromb Vasc Biol, 34(7), 1486-1494, 2014.
74. Santana-Davila R, **SZABO A,** Arce-Lara C, Williams CD, Kelley MJ, Whittle J. Cisplatin versus Carboplatin-Based Regimens for the Treatment of Patients with Metastatic Lung Cancer An Analysis of Veterans Health Administration Data, J Thorac Oncol, 9(5), 702—709, 2014.
75. Land ME, Cooper RF, Young J, Berg E, Kitchner T, Xiang Q, **SZABO A,** Ivacic LC, Stepien KE, Page CD, Carroll J, Connor T Jr, Brilliant M Cone Structure in Subjects with Known Genetic Relative Risk for AMD. Optom Vis Sci. 91(8):939-49, 2014. PMID: PMC4111779.

76. Qi X, Xie C, Hou S, Li G, Yin N, Dong L, Lepp A, Chesnik MA, Mirza SP, **SZABO A**, Tsai S, Basir Z, Wu S, Chen G. Identification of a ternary protein-complex as a therapeutic target for K-Ras-dependent colon cancer. Oncotarget. **5**(12):4269-82, 2014.
77. Jassim H, Seligman JT, Frelich M, Goldblatt M, Kastenmeier A, Wallace J, Zhao HS, **SZABO A**, Gould JC. A population-based analysis of emergent versus elective paraesophageal hernia repair using the Nationwide Inpatient Sample. Surg Endosc. **28**(12), 3473-3478, 2014.
78. Okunseri C, Okunseri E, Xiang Q, Thorpe JM, **SZABO A**. Prescription of opioid and nonopioid analgesics for dental care in emergency departments: Findings from the National Hospital Ambulatory Medical Care Survey. J Public Health Dent. **74**(4), 283-292, 2014.
79. Everson CA, Henchen CJ, **SZABO A**, Hogg N. Cell injury and repair resulting from sleep loss and sleep recovery in laboratory rats. Sleep. **37**(12), 1929—1940, 2014.
80. Gao F, Fish BL, **SZABO A**, Schock A, Narayanan J, Jacobs ER, Moulder JE, Lazarova Z, Medhora M. Enhanced survival from radiation pneumonitis by combined irradiation to the skin. Int J Radiat Biol. **90**(9), 753-761, 2014.
81. Trivedi H, **SZABO A**, Zhao S, Cantor T, Raff H. Circadian variation of mineral and bone parameters in end-stage renal disease. J Nephrol, **28**(3), 351-359, 2015.
82. Trivedi H, J Yang, **SZABO A**. Gastrointestinal bleeding in patients on long-term dialysis. J Nephrol, **28** (2), 235-243, 2015.
83. Babaei A, Lin EC, **SZABO A**, Massey BT. Determinants of pressure drift in Manoscan<sup>TM</sup> esophageal high-resolution manometry system Neurogastroenterol Motil. **27**(2), 2015.
84. Beyer K, Bizub J, **SZABO A**, Heller B, Kistner A, Shawgo E, Zetts C. Development and validation of the attitudes toward outdoor play scales for children Soc Sci Med **133**, 253-260, 2015.
85. Beyer KMM, Heller EF, Bizub JM, Kistner AJ, **SZABO A**, Shawgo EE, Zetts CJ. More than a Pretty Place: assessing the impact of environmental education on children's knowledge and attitudes about outdoor play in nature Int J Environ Res Public Health, **12**(2), 2054—2070, 2105.
86. Beyer KMM, Malecki KM, Hoormann KA, **SZABO A**, Nattinger AB. Perceived Neighborhood Quality and Cancer Screening Behavior: Evidence from the Survey of the Health of Wisconsin. J Community Health, 2015, to appear
87. Knight JM, **SZABO A**, Zhao S, Lyness JM, Sahler OJZ, Liesveld JL, Sander T, Rizzo



JD, Hillard CJ, Moynihan JA. Circulating endocannabinoids during hematopoietic stem cell transplantation: A pilot study. Neurobiol Stress, **2**, 44—50, 2015.

88. Lakshmikanthan S, Zheng X, Nishijima Y, Sobczak M, **SZABO A**, Vasquez-Vivar J, Zhang DX, Chrzanowska-Wodnicka M. Rap1 promotes endothelial mechanosensing complex formation NO release and normal endothelial function. EMBO Rep **16**(5), 628—637, 2015.
89. Rivkin MJ, deVeber G, Ichord RN, Kirton A, Chan AK, Hovinga CA, Gill JC, **SZABO A**, Hill MD, Scholz K, Amlie-Lefond C. Thrombolysis in pediatric stroke study. Stroke **46**(3), 880—885, 2015
90. Santana-Davila R, Devisetty K, **SZABO A**, Sparapani R, Arce-Lara C, Gore E M, Moran A, Williams CD, Kelley MJ, Whittle J. Cisplatin and Etoposide Versus Carboplatin and Paclitaxel With Concurrent Radiotherapy for Stage III Non-Small-Cell Lung Cancer: An Analysis of Veterans Health Administration Data. J Clin Oncol **33**(6), 567-574, 2015.
91. Simon KL, Frelich MJ, Gould JC, Zhao HS, **SZABO A**, Goldblatt MI. Inpatient outcomes after elective versus nonelective ventral hernia repair, J Surg Res, 2015, to appear.
92. Wolfgram DF, **SZABO A**, Murray AM, Whittle J. Risk of dementia in peritoneal dialysis patients compared with hemodialysis patients. Perit Dial Int **35**(2), 189—198, 2105.

### **BOOKS, CHAPTERS , REVIEWS**

1. Raetz EA, Moos PJ, **SZABO A**, Carroll WL, Gene expression profiling Methods and clinical applications in oncology Hematol Oncol Clin North Am, 15(5), 911-30, ix, 2001
2. **SZABO A**, Boucher, K Oncogenetic trees In Handbook of Cancer Models with Applications, eds Tan & Hanin, World Scientific, 2008
3. Thall PF, Nguyen HQ, **SZABO A** Adaptive Decision Making Based on Interval-Censored Data in a Clinical Trial to Optimize Rapid Treatment of Stroke In Interval-Censored Time-to-Event Data: Methods and Applications, eds Chen, Sun & Peace; Chapman & Hall/CRC Biostatistics Series, 2012

### **SOFTWARE, SOFTWARE MODULES**

1. Oncotree – R package, CRAN
2. CorrBin – R package, CRAN