

Curriculum Vitae

Name: **Marian**

Surname: **Catalin Valer**

<http://orcid.org/0000-0002-7749-1384>

Foreign Languages

English: advanced level (C1)

French: advanced level (C1)

Education

1989-1993 - "Doamna Stanca" High School, Satu-Mare, chemistry-biology, baccalaureate

1993-1999, MD License, "Victor Babes" University of Medicine and Pharmacy, General Medicine Faculty – 2 E. Murgu Place, 300041 Timisoara, Romania;

2001-2006, Specialist in laboratory medicine, license starting February 2006. Municipal Hospital, Timisoara, Romania, Residency in Laboratory Medicine (biochemistry, hematology, microbiology, virology, immunology, parasitology, mycology), supervisor Prof. Dr. Roxana Moldovan,

2003-2004, FP5 European Union "Marie Curie" doctoral fellowship, Institut Gustave Roussy, Service de Genetique Moleculaire, Villejuif, France, supervisor Dr. Brigitte Bressac-de Paillerets

2001-2005, PhD degree obtained in November 2005, "Victor Babes" University of Medicine and Pharmacy-Timisoara, Romania, PhD program in forensic genetics, supervisor Prof. Dr. Milan Dressler,

Professional Experience

2000 - 2001, Medical Doctor, County Hospital Timisoara, Romania,

2003 –2004, Research Associate, Molecular Genetics Department, Gustave Roussy Cancer Institute, Villejuif, France

2002 –2006, Assistant Professor, Biochemistry Department, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

2006-2010, Research Instructor, Oncology Department, Cancer Genetics and Epidemiology Program, Georgetown University Medical Center, Lombardi Comprehensive Cancer Center, Washington DC

2008-2011, Scientific Program Manager, TobPRAC NCI contract (PI: Shields), Oncology Department, Cancer Genetics and Epidemiology Program, Georgetown University Medical Center, Lombardi Comprehensive Cancer Center, Washington DC

2008-2011, Director, Genomics and Epigenomics Shared Resource, Lombardi Comprehensive Cancer Center, Georgetown University Medical Center

2010-2011, Assistant Professor, Research Track, Oncology Department, Cancer Genetics and Epidemiology Program, Georgetown University Medical Center, Lombardi Comprehensive Cancer Center, Washington DC

2011-2012, Assistant Professor, Tenure Track, Department of Internal Medicine, James Comprehensive Cancer Center, Ohio State University, Columbus OH

2013-2016, Associate Professor, Biochemistry Department, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

2016-present, Professor, Biochemistry Department, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

Honors

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| 2003 | FP5 European Union "Marie Curie" doctoral fellowship, Institut Gustave Roussy, Service de Genetique Moleculaire, Villejuif, France |
| 2005 | Travel Grant to the FEBS-EMBO Advanced Course-Molecular Mechanisms in Signal Transduction and Cancer, Spetses, Greece |
| 2006 | American Association for Cancer Research International Scholar Award in Breast Cancer Research at the Lombardi Cancer Center, Washington DC |
| 2007 | Competitive selection to participate at the "Working with the HapMap" Wellcome Trust Advanced Course at the Sanger Institute, Cambridge, UK |

Teaching Experience

Lectures:

Master and doctoral level:

TBIO-520 Cancer Prevention, Control, & Epidemiology, 2011 – Georgetown University

BCHB-529 Biotechnology-Based Human Diagnostics, 2010-2011 - Georgetown University

BIST 545 Case Studies in Epidemiology, 2009-2011 - Georgetown University

TBIO 525 Cancer Genetics, 2007-2011 - Georgetown University

Medical undergraduate level:

2016-present, Medical Biochemistry - "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

Scientific and research activities

Member of the following professional societies:

2015-present, SRBBM – Romanian Society for Biochemistry and Molecular Biology

2009-2011, ABRF – Association of Biomedical Research Facilities, USA

2009-present, Tumor Microenvironment Working Group of the AACR, USA

2008-present, Molecular Epidemiology Working Group of the AACR, USA

2006-present, AACR-American Association for Cancer Research, USA

2002-2006, SNBC – National Society for Cellular Biology, Romania

Reviewer for over 10 ISI rated scientific journals

Editorial Board Member of the journal Scientific Reports (IF=5) from Feb. 2014

Research grants:

Director (Principal Investigator) for two national grants in Romania:

PN-II-ID-PCE-2012-4-0279, PN-III-P4-ID-PCE-2016-0371

Member (Co-investigator) for 6 national grants in Romania, one grant in France, and 7 grants in the USA

Distinctions

UEFISCDI awards for ISI ranked articles:

- In top 25% journals
 - 2013 – 2 articles
 - 2014 – 3 articles
 - 2015 – 2 articles
 - 2016 – 2 articles
- In top 50% journals
 - 2013 – 1 article
 - 2014 – 1 article
 - 2015 – 2 articles
 - 2016 – 2 articles

Hirsch index September 2017

- Google Scholar – h-index = 21
- Web of Science – h-index = 18

2016 – present, Member of the Medical Committee of CNATDCU (Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare), Order of the Ministry of National Education and Scientific Research No. 4.106/10.06.2016

Scientific publications

1. List of 10 most relevant publications

In ISI ranked journals

1. Balacescu O, Petrut B, Tudoran O, Feflea D, Balacescu L, Anghel A, Sirbu IO, Seclaman E, Marian C. Urinary microRNAs for prostate cancer diagnosis,

- prognosis, and treatment response: are we there yet? *Wiley Interdiscip Rev RNA*. 2017;e1438.doi: 10.1002/wrna.1438.
2. Enatescu VR, Papava I, Enatescu I, Antonescu M, Anghel A, Seclaman E, Sirbu IO, Marian C. Circulating Plasma Micro RNAs in Patients with Major Depressive Disorder Treated with Antidepressants: A Pilot Study. *Psychiatry Investig*. 2016;13(5):549-557
 3. Matos Do Canto L*, Marian C*, Varghese RS, Ahn J, Da Cunha PA, Willey S, Sidawy M, Rone JD, Cheema AK, Luta G, Nezami Ranjbar MR, Ressom HW, Haddad BR. Metabolomic profiling of breast tumors using ductal fluid. *Int J Oncol*. 2016;49(6):2245-2254. *co-prim autori
 4. Do Canto LM*, Marian C*, Willey S, Sidawy M, Da Cunha PA, Rone JD, Li X, Gusev Y, Haddad BR. MicroRNA analysis of breast ductal fluid in breast cancer patients. *Int J Oncol*. 2016;48:2071-2078. *co-prim autori
 5. Ochs-Balcom HM*, Marian C*, Nie J, Brasky TM, Goerlitz DS, Trevisan M, Edge SB, Winston J, Berry DL, Kallakury BV, Freudenheim JL, Shields PG. Adiposity is associated with p53 gene mutations in breast cancer. *Breast Cancer Res Treat*. 2015;153:635-645. *co-prim autori
 6. Llanos AA*, Marian C*, Brasky TM, Dumitrescu RG, Liu Z, Mason JB, Makambi KH, Spear SL, Kallakury BV, Freudenheim JL, Shields PG. Associations between genetic variation in one-carbon metabolism and LINE-1 DNA methylation in histologically normal breast tissues. *Epigenetics*. 2015;10:727-735. *co-prim autori
 7. Zhou X*, Marian C*, Makambi KH, Kosti O, Kallakury BV, Loffredo CA, Zheng YL. MicroRNA-9 as Potential Biomarker for Breast Cancer Local Recurrence and Tumor Estrogen Receptor Status. *PLoS One*. 2012;7(6):e39011. *co-prim autori
 8. Marian C, Tao M, Mason JB, Goerlitz DS, Nie J, Chanson A, Freudenheim JL, Shields PG. Single nucleotide polymorphisms in uracil-processing genes, intake of one-carbon nutrients and breast cancer risk. *Eur J Clin Nutr*. 2011;65(6):683-9
 9. Marian C, Ochs-Balcom HM, Nie J, Kallakury BV, Ambrosone CB, Trevisan M, Edge S, Shields PG, Freudenheim JL. FGFR2 intronic SNPs and breast cancer risk; associations with tumor characteristics and interactions with exogenous exposures and other known breast cancer risk factors. *Int J Cancer* 2011;129(3):702-12.
 10. Marian C, Scope A, Laud K, Friedman E, Pavlotsky F, Yakobson E, Bressac-de Paillerets B, Azizi E. Search for germline alterations in CDKN2A/ARF and CDK4 of 42 Jewish melanoma families with or without neural system tumours. *Br J Cancer*. 2005;92(12):2278-85

2. Title of PhD thesis

Studies regarding the applicability of genotyping techniques for human identification

3. Patents

None

4. Books and book chapters

Monographs and treatises

1. Alejandro Escobar-Gutiérrez, Joseph A. Bellanti, Catalin Marian. Basic molecular biology for immunology, in "Immunology IV. Clinical Applications in Health and Disease". Edited by Joseph A. Bellanti, Alejandro Escobar-Gutiérrez, and George C. Tsokos. 4th ed, 1063 pp, Bethesda, MD, I Care Press, 2012, ISBN 978-0-692-01160-7
2. Andrei Anghel, Ioan Ovidiu Sirbu, Catalin Marian, Liviu Tamas, Marilena Motoc. Introducere in terapia genica (2002) 123 pag. Editura Mirton, Timisoara, ISBN 973-585-839-8

Textbooks for students

1. Cătălin Marian, Andrei Anghel, Edward Şeclăman, Adriana Kaycsa, Ioan Ovidiu Sîrbu, Liviu Tămaş. Biochemistry of Metabolism for Medical Students. (2016) 229 pag. ISBN 978-606-786-010-8, Editura Victor Babeş, Timişoara
2. Andrei Anghel, Edward Şeclăman, Liviu Tămaş, Marilena Motoc, Eugen Sisu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sirbu, Catalin Marian, Corina Samoilă, Daniela Grecu, Felicia Sfrijan, Alina Georgescu, Anca Marcu, Ramona Buzatu, Diana Bonţe, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala. Lucrări practice de chimie și biochimie medicală pentru studenții facultăților de medicină. (2015) 467 pag. ISBN 978-606-8456-76-8, Editura Victor Babeş, Timişoara
3. V.Rusu, A. Anghel, Adriana Kaycsa, Dana David, E. Şişu, E.Şeclăman, I.O.Sârbu, L.Tămaş, Corina Samoila, C. Marian. "Lucrări practice de Biochimie Medicală Generală I. Principii și metode de analiză de utilitate biochimică", Editie revăzută și adăugită, (2002) 199 pag. ISBN 973-8453-03-8, Editura Waldpress, Timişoara
4. V.Rusu, A. Anghel, E. Şişu, Adriana Kaycsa, I.Moldovan, Dana David, E.Şeclăman, I.O.Sârbu, A.Mihala, L.Tămaş, Corina Samoila, Felicia Sfrijan, C. Marian, Diana Bonte. "Biochimie Medicală. Lucrari de Laborator" (2003) 295 pag. ISBN 973-8453-46-1, Editura Waldpress, Timişoara
5. Rusu V., Anghel A., Moldovan I., Şişu E., Kaycsa A., David D., Humă L., Mihala A., Seclaman E., Sârbu O., Tămaş L., Sfrijan F., Marian C., Bonte D., Lucrări practice de biochimie medicală generală, căi metabolice și investigații biochimice, Editura Waldpress, 137 pg., 2003, ISBN 973-8453-22-4
6. Anghel A., Rusu V., Kaycsa A., Seclaman E., Tamas L., Marian C., Samoila C., Grecu Daniela, Sfrijan F., David D., Mihala A., Narita D., Moldovan I., Flangea C., Bonte D., Sisu E., Lucrări practice de chimie și biochimie medicală pentru studenții facultăților de medicină, Editura Eurostampa, 347 pg., 2005, ISBN 973-687-355-2

5. Articles in ISI ranked journals with international visibility

Main author

1. Balacescu O, Petrut B, Tudoran O, Feflea D, Balacescu L, Anghel A, Sirbu IO, Seclaman E, Marian C. Urinary microRNAs for prostate cancer diagnosis, prognosis, and treatment response: are we there yet? Wiley Interdiscip Rev RNA. 2017;e1438.doi: 10.1002/wrna.1438.

2. Enatescu VR, Papava I, Enatescu I, Antonescu M, Anghel A, Seclaman E, Sirbu IO, Marian C. Circulating Plasma Micro RNAs in Patients with Major Depressive Disorder Treated with Antidepressants: A Pilot Study. *Psychiatry Investig.* 2016;13(5):549-557
3. Matos Do Canto L*, Marian C*, Varghese RS, Ahn J, Da Cunha PA, Willey S, Sidawy M, Rone JD, Cheema AK, Luta G, Nezami Ranjbar MR, Resson HW, Haddad BR. Metabolomic profiling of breast tumors using ductal fluid. *Int J Oncol.* 2016;49(6):2245-2254. *co-prim autori
4. Do Canto LM*, Marian C*, Willey S, Sidawy M, Da Cunha PA, Rone JD, Li X, Gusev Y, Haddad BR. MicroRNA analysis of breast ductal fluid in breast cancer patients. *Int J Oncol.* 2016;48:2071-2078. *co-prim autori
5. Mihala A, Alexa AA, Samoilă C, Dema A, Vizitiu AC, Anghel A, Tămaș L, Marian CV*, Sîrbu IO. A pilot study on the expression of microRNAs resident on chromosome 21 in laser microdissected FFPE prostate adenocarcinoma samples. *Rom J Morphol Embryol.* 2015;56(3):1063-8. *corresponding author
6. Narita D, Seclaman E, Anghel A, Iliana R, Cireap N, Negru S, Sirbu IO, Ursoniu S, Marian C. Altered levels of plasma chemokines in breast cancer and their association with clinical and pathological characteristics. *Neoplasma.* 2016;63(1):141-9.
7. Ochs-Balcom HM*, Marian C*, Nie J, Brasky TM, Goerlitz DS, Trevisan M, Edge SB, Winston J, Berry DL, Kallakury BV, Freudenheim JL, Shields PG. Adiposity is associated with p53 gene mutations in breast cancer. *Breast Cancer Res Treat.* 2015;153:635-645. *co-prim autori
8. Llanos AA*, Marian C*, Brasky TM, Dumitrescu RG, Liu Z, Mason JB, Makambi KH, Spear SL, Kallakury BV, Freudenheim JL, Shields PG. Associations between genetic variation in one-carbon metabolism and LINE-1 DNA methylation in histologically normal breast tissues. *Epigenetics.* 2015;10:727-735. *co-prim autori
9. Anghel A, Enache A, Seclaman E, Gruin G, Ursoniu S, Alexa A, Antonescu M, Marian C. Genetic polymorphism data on 15 autosomal STR markers in a Western Romanian population sample. *Leg Med.* 2014;16(4):238-40.
10. Zhou X*, Marian C*, Makambi KH, Kosti O, Kallakury BV, Loffredo CA, Zheng YL. MicroRNA-9 as Potential Biomarker for Breast Cancer Local Recurrence and Tumor Estrogen Receptor Status. *PLoS One.* 2012;7(6):e39011. PMID:22723919. *co-prim autori
11. Marian C, Tao M, Mason JB, Goerlitz DS, Nie J, Chanson A, Freudenheim JL, Shields PG. Single nucleotide polymorphisms in uracil-processing genes, intake of one-carbon nutrients and breast cancer risk. *Eur J Clin Nutr.* 2011;65(6):683-9 PMID:21427733
12. Marian C, Ochs-Balcom HM, Nie J, Kallakury BV, Ambrosone CB, Trevisan M, Edge S, Shields PG, Freudenheim JL. FGFR2 intronic SNPs and breast cancer risk; associations with tumor characteristics and interactions with exogenous exposures and other known breast cancer risk factors. *Int J Cancer* 2011;129(3):702-12. PMID: 20853316
13. Marian C, O'Connor RJ, Djordjevic MV, Rees VW, Hatsukami DK, Shields PG. Reconciling Human Smoking Behavior and Machine Smoking Patterns:

- Implications for Understanding Smoking Behavior and the Impact on Laboratory Studies. *Cancer Epidemiol Biomarkers Prev* 2009; 18(12):3305-20. Review.
14. Marian C, Anghel A, Bel SM, Ferencz BK, Ursoniu S, Dressler ML, Popescu O, Budowle B. STR data for the 15 AmpF1STR Identifier loci in the Western Romanian Population. *Forensic Sci. Int.* 2007;170(1):73-5
 15. Marian C, Anghel A, Dressler ML, Budowle B. Population data for the D5S818, D 13S317, D7S820 and D16S539 STR loci in a Romanian population sample. *J Forensic Sci.* 2005;50(6):1512
 16. Marian C, Scope A, Laud K, Friedman E, Pavlotsky F, Yakobson E, Bressac-de Paillerets B, Azizi E. Search for germline alterations in CDKN2A/ARF and CDK4 of 42 Jewish melanoma families with or without neural system tumours. *Br J Cancer.* 2005;92(12):2278-85

Co-author

17. Filip AT, Balacescu O, Marian C, Anghel A. Microbiota Small RNAs in Inflammatory Bowel Disease. *J Gastrointestin Liver Dis.* 2016 Dec;25(4):509-516.
18. Taslim C, Weng DY, Brasky TM, Dumitrescu RG, Huang K, Kallakury BV, Krishnan S, Llanos AA, Marian C, McElroy J, Schneider SS, Spear SL, Troester MA, Freudenheim JL, Geyer S, Shields PG. Discovery and replication of microRNAs for breast cancer risk using genome-wide profiling. *Oncotarget.* 2016 Dec 27;7(52):86457-86468.
19. Sugita B, Gill M, Mahajan A, Duttargi A, Kirolikar S, Almeida R, Regis K, Oluwasanmi OL, Marchi F, Marian C, Makambi K, Kallakury B, Sheahan L, Cavalli IJ, Ribeiro EM, Madhavan S, Boca S, Gusev Y, Cavalli LR. Differentially expressed miRNAs in triple negative breast cancer between African-American and non-Hispanic white women. *Oncotarget.* 2016 Nov 29;7(48):79274-79291
20. Hsu PC, Lan RS, Brasky TM, Marian C, Cheema AK, Ransom HW, Loffredo CA, Pickworth WB, Shields PG. Menthol Smokers: Metabolomic Profiling and Smoking Behavior. *Cancer Epidemiol Biomarkers Prev.* 2017 Jan;26(1):51-60.
21. Hsu PC, Lan RS, Brasky TM, Marian C, Cheema AK, Ransom HW, Loffredo CA, Pickworth WB, Shields PG. Metabolomic profiles of current cigarette smokers. *Mol Carcinog.* 2017 Feb;56(2):594-606
22. Minlikeeva AN, Browne RW, Ochs-Balcom HM, Marian C, Shields PG, Trevisan M, Krishnan S, Modali R, Seddon M, Lehman T, Freudenheim JL. Single-Nucleotide Polymorphisms and Markers of Oxidative Stress in Healthy Women. *PLoS One.* 2016;11(6):e0156450. doi: 10.1371/journal.pone.0156450. PMID: 27271305
23. Callahan CL, Wang Y, Marian C, Weng DY, Eng KH, Tao MH, Ambrosone CB, Nie J, Trevisan M, Smiraglia D, Edge SB, Shields PG, Freudenheim JL. DNA methylation and breast tumor clinicopathological features: the Western New York Exposures and Breast Cancer (WEB) Study. *Epigenetics.* 2016 May 31:0. [Epub ahead of print], DOI: 10.1080/15592294.2016.1192735. PMID: 27245195
24. Song MA, Brasky TM, Marian C, Weng DY, Taslim C, Llanos AA, Dumitrescu RG, Liu Z, Mason JB, Spear SL, Kallakury BV, Freudenheim JL, Shields PG. Genetic variation in one-carbon metabolism in relation to genome-wide DNA

- methylation in breast tissue from healthy women. *Carcinogenesis*. 2016 Mar 9. pii: bgw030. [Epub ahead of print], PMID: 26961134
25. Song MA, Marian C, Brasky TM, Reisinger S, Djordjevic M, Shields PG. Chemical and toxicological characteristics of conventional and low-TSNA moist snuff tobacco products. *Toxicol Lett*. 2016;245:68-77
 26. Song MA, Brasky TM, Marian C, Weng DY, Taslim C, Dumitrescu RG, Llanos AA, Freudenheim JL, Shields PG. Racial differences in genome-wide methylation profiling and gene expression in breast tissues from healthy women. *Epigenetics*. 2015 Dec 2;10(12):1177-87
 27. Langa BC, Oliveira MM, Pereira SR, Lupicki K, Marian C, Govender D, Panieri E, Hiss D, Cavalli IJ, Abdul-Rasool S, Cavalli LR. Copy Number Analysis of the DLX4 and ERBB2 Genes in South African Breast Cancer Patients. *Cytogenet Genome Res*. 2015;146(3):195-203.
 28. Sala-Cirtog M, Marian C, Anghel A. New insights of medicinal plant therapeutic activity-The miRNA transfer. *Biomed Pharmacother*. 2015;74:228-32.
 29. Weng DY, Chen J, Taslim C, Hsu PC, Marian C, David SP, Loffredo CA, Shields PG. Persistent alterations of gene expression profiling of human peripheral blood mononuclear cells from smokers. *Mol Carcinog*. 2015 Aug 21. doi: 10.1002/mc.22385. [Epub ahead of print]
 30. Roy S, Brasky TM, Belury MA, Krishnan S, Cole RM, Marian C, Yee LD, Llanos AA, Freudenheim JL, Shields PG. Associations of erythrocyte ω -3 fatty acids with biomarkers of ω -3 fatty acids and inflammation in breast tissue. *Int J Cancer*. 2015;137(12):2934-46
 31. Llanos AA, Dumitrescu RG, Brasky TM, Liu Z, Mason JB, Marian C, Makambi KH, Spear SL, Kallakury BV, Freudenheim JL, Shields PG. Relationships among folate, alcohol consumption, gene variants in one-carbon metabolism and p16INK4a methylation and expression in healthy breast tissues. *Carcinogenesis*. 2015;36(1):60-7
 32. Torresan C, Oliveira MM, Pereira SR, Ribeiro EM, Marian C, Gusev Y, Lima RS, Urban CA, Berg PE, Haddad BR, Cavalli IJ, Cavalli LR. Increased copy number of the DLX4 homeobox gene in breast axillary lymph node metastasis. *Cancer Genet*. 2014;207(5):177-87.
 33. Llanos AA, Brasky TM, Mathew J, Makambi KH, Marian C, Dumitrescu RG, Freudenheim JL, Shields PG. Genetic variation in adipokine genes and associations with adiponectin and leptin concentrations in plasma and breast tissue. *Cancer Epidemiol Biomarkers Prev*. 2014;23(8):1559-68
 34. Enatescu VR, Enatescu I, Craina M, Gluhovschi A, Papava I, Romosan R, Marian C, Oprea A, Bernad E. State and trait anxiety as a psychopathological phenomenon correlated with postpartum depression in a Romanian sample: a pilot study. *J Psychosom Obstet Gynaecol*. 2014;35(2):55-61
 35. Blancato J, Graves A, Rashidi B, Moroni M, Tchobe L, Ozdemirli M, Kallakury B, Makambi KH, Marian C, Mueller SC. SYK allelic loss and the role of Syk-regulated genes in breast cancer survival. *PLoS One*. 2014;9(2):e87610.
 36. Srivastava A, Goldberger H, Dimtchev A, Marian C, Soldin O, Li X, Collins SP, Suy S, Kumar D. Circulatory miR-628-5p is downregulated in prostate cancer patients. *Tumour Biol*. 2014;35(5):4867-73

37. Srivastava A, Goldberger H, Dimtchev A, Ramalinga M, Chijioke J, Marian C, Oermann EK, Uhm S, Kim JS, Chen LN, Li X, Berry DL, Kallakury BV, Chauhan SC, Collins SP, Suy S, Kumar D. MicroRNA profiling in prostate cancer--the diagnostic potential of urinary miR-205 and miR-214. *PLoS One*. 2013;8(10):e76994
38. Tao MH, Hainaut P, Marian C, Nie J, Ambrosone C, Edge SB, Trevisan M, Dorn J, Shields PG, Freudenheim JL. Association of prediagnostic physical activity with survival following breast cancer diagnosis: influence of TP53 mutation status. *Cancer Causes Control*. 2013;24(12):2177-86.
39. Ricks-Santi LJ, Nie J, Marian C, Ochs-Balcom HM, Trevisan M, Edge SB, Kanaan Y, Freudenheim JL, Shields PG. BRCA1 polymorphisms and breast cancer epidemiology in the Western New York exposures and breast cancer (WEB) study. *Genet Epidemiol*. 2013;37(5):504-11
40. Tao MH, Marian C, Shields PG, Potischman N, Nie J, Krishnan SS, Berry DL, Kallakury BV, Ambrosone C, Edge SB, Trevisan M, Winston J, Freudenheim JL. Exposures in early life: associations with DNA promoter methylation in breast tumors. *J Dev Orig Health Dis*. 2013;4(2):182-90
41. Llanos AA, Brasky TM, Dumitrescu RG, Marian C, Makambi KH, Kallakury BV, Spear SL, Perry DJ, Convit RJ, Platek ME, Adams-Campbell LL, Freudenheim JL, Shields PG. Plasma IGF-1 and IGFBP-3 may be imprecise surrogates for breast concentrations: an analysis of healthy women. *Breast Cancer Res Treat*. 2013;138(2):571-9
42. Wang J, Zhang Y, Marian C, Ransom HW. Identification of aberrant pathways and network activities from high-throughput data. *Brief Bioinform*. 2012;13(4):406-19..
43. Llanos AA, Dumitrescu RG, Marian C, Makambi KH, Spear SL, Kallakury BV, Perry DJ, Convit RJ, Platek ME, Millen AE, Adams-Campbell LL, Freudenheim JL, Shields PG. Adipokines in plasma and breast tissues: associations with breast cancer risk factors. *Cancer Epidemiology Biomarkers and Prevention*. 2012;21(10):1745-55.
44. Han, D. Nie, J. Bonner, MR. Ambrosone, C. Marian, C. Shields, P. Trevisan, M. Edge, S. Freudenheim, JL. Clustering of Place of Birth for Women with Breast Cancer: Differences by Tumor Characteristics. *Cancer Causes and Control*. 2013;24(3):587-94.
45. Tao MH, Mason JB, Marian C, McCann SE, Platek ME, Millen A, Ambrosone C, Edge SB, Krishnan SS, Trevisan M, Shields PG, Freudenheim JL. Promoter Methylation of E-Cadherin, p16, and RAR- β (2) Genes in Breast Tumors and Dietary Intake of Nutrients Important in One-Carbon Metabolism. *Nutr Cancer*. 2011;63(7):1143-50.PMID:21916701
46. Tao MH, Marian C, Nie J, Ambrosone C, Krishnan SS, Edge SB, Trevisan M, Shields PG, Freudenheim JL. Body mass and DNA promoter methylation in breast tumors in the Western New York Exposures and Breast Cancer Study. *Am J Clin Nutr*. 2011;94(3):831-8. PMID:21775555
47. Ricks-Santi LJ, Sucheston LE, Yang Y, Freudenheim JL, Isaacs CJ, Schwartz MD, Dumitrescu RG, Marian C, Nie J, Vito D, Edge SB, Shields PG. Association of Rad51 polymorphism with DNA repair in BRCA1 mutation carriers and

- sporadic breast cancer risk. *BMC Cancer*. 2011;11:278.PMID:21708019
48. Roberts MR, Shields PG, Ambrosone CB, Nie J, Marian C, Krishnan SS, Goerlitz DS, Modali R, Seddon M, Lehman T, Amend KL, Trevisan M, Edge SB, Freudenheim JL. Single-nucleotide polymorphisms in DNA repair genes and association with breast cancer risk in the web study. *Carcinogenesis*. 2011;32(8):1223-30.PMID:21622940
 49. Brasky TM, Bonner MR, Moysich KB, Ambrosone CB, Nie J, Tao MH, Edge SB, Kallakury BV, Marian C, Goerlitz DS, Trevisan M, Shields PG, Freudenheim JL. Non-steroidal anti-inflammatory drugs (NSAIDs) and breast cancer risk: differences by molecular subtype. *Cancer Causes Control*. 2011;22(7):965-75.PMID:21516318
 50. HM Ochs-Balcom, R Chennamaneni, AE Millen, P Shields, C Marian, M Trevisan, JL Freudenheim. Vitamin D receptor gene polymorphisms are associated with adiposity phenotypes, *Am J Clin Nutr*, 2011;93(1):5-10, PMID:21048058
 51. Brasky TM, Bonner MB, Moysich KB, Ochs-Balcom HM, Marian C, Ambrosone CB, Nie J, Tao MH, Edge SB, Trevisan M, Shields PG, Freudenheim JL. Genetic Variants in COX-2, Non-Steroidal Anti-Inflammatory Drugs, and Breast Cancer Risk: The Western New York Exposures and Breast Cancer (WEB) Study. *Breast Cancer Res Treat*. 2011;126(1):157-65, PMID: 20676755
 52. Tao MH, Marian C, Shields PG, Nie J, McCann SE, Millen A, Ambrosone C, Hutson A, Edge SB, Krishnan SS, Xie B, Winston J, Vito D, Russell M, Nochajski TH, Trevisan M, Freudenheim JL. Alcohol consumption in relation to aberrant DNA methylation in breast tumors. *Alcohol*. 2011;45(7):689-99. PMID:21168302
 53. Brasky TM, Bonner MB, Moysich KB, Ambrosone CB, Nie J, Tao MH, Edge SB, Kallakury BVS, Marian C, Trevisan M, Shields PG, Freudenheim JL. Non-steroidal anti-inflammatory drug (NSAID) use and breast cancer risk in the Western New York Exposures and Breast Cancer (WEB) Study. *Cancer Causes Control* 2010;21(9):1503-12. PMID: 20499154
 54. Pereira L, Alshamali F, Andreassen R, Ballard R, Chantratita W, Cho NS, Coudray C, Dugoujon JM, Espinoza M, González-Andrade F, Hadi S, Immel UD, Jeran N, Havas D, Marian C, Gonzalez-Martin A, Mertens G, Parson W, Perone C, Prieto L, Takeshita H, Villalobos HR, Zeng Z, Zhivotovsky L, Camacho R, Fonseca NA. PopAffiliator: online calculator for individual affiliation to a major population group based on 17 autosomal STR genotype profile. *Int J Legal Med* 2010 Jun 16. [Epub ahead of print]PMID: 20552217
 55. Dumitrescu R.G., Marian C., Krishnan S.S., Spear S.L., Kallakury B.V.S., Perry J.D., Convit R.J., Seillier-Moiseiwitsch F., Yang Y., Freudenheim J.L., Shields P.G. Familial and Racial Determinants of Tumor Suppressor Genes Promoter Hypermethylation in Breast Tissues from Healthy Women. *J Cell Mol Med* 2010;14(6B):1468-75, PMID: 19799643
 56. Platek ME, Shields PG, Tan D, Marian C, Bonner MR, McCann SE, Nie J, Wilding GE, Ambrosone CB, Millen AE, Trevisan M, Russell M, Nochajski TH, Edge SB, Winston J, Freudenheim JL. Alcohol consumption and breast tumor mitochondrial DNA mutations. *Breast Cancer Res Treat* 2010;121(2):453-60,

PMID:19847642

57. Platek ME, Shields PG, Marian C, McCann SE, Bonner MR, Nie J, Ambrosone C, Millen A, Quick SK, Trevisan M, Russell M, Nochajski TH, Edge SB, Freudenheim JL. Alcohol consumption and genetic variation in the methylenetetrahydrofolate reductase (MTHFR) and 5methyltetrahydrofolate-homocysteine methyltransferase (MTR) genes in relation to breast cancer risk. *Cancer Epidemiol Biomarkers Prev.* 2009;18(9):2453-9
58. Chaudru V, Lo MT, Lesueur F, Marian C, Mohamad H, Laud K, Barrois M, Chompret A, Avril MF, Demenais F, Bressac-de-Paillerets B. Protective effect of copy number polymorphism of Glutathione S-Transferase T1 gene on melanoma risk in presence of CDKN2A mutations, MC1R variants and host-related phenotypes. *Fam Cancer.* 2009;8(4):371-7.
59. Tao MH, Shields PG, Nie J, Marian C, Ambrosone CB, McCann SE, Platek M, Krishnan SS, Xie B, Edge SB, Winston J, Vito D, Trevisan M, Freudenheim JL. DNA Promoter Methylation in Breast Tumors: No Association with Genetic Polymorphisms in MTHFR and MTR. *Cancer Epidemiol Biomarkers Prev.* 2009;18(3):998-1002
60. Tao MH, Shields PG, Nie J, Millen A, Ambrosone CB, Edge SB, Krishnan SS, Marian C, Xie B, Winston J, Vito D, Trevisan M, Freudenheim JL. DNA hypermethylation and clinicopathological features in breast cancer: the Western New York Exposures and Breast Cancer (WEB) Study. *Breast Cancer Res Treat* 2009;114(3):559-68
61. Quick SK, Shields PG, Nie J, Platek ME, McCann SE, Hutson AD, Trevisan M, Vito D, Modali R, Lehman TA, Seddon M, Edge SB, Marian C, Muti P, Freudenheim JL. Effect modification by catalase genotype suggests a role for oxidative stress in the association of hormone replacement therapy with postmenopausal breast cancer risk. *Cancer Epidemiol Biomarkers Prev.* 2008;17(5):1082-7.
62. Monnerat C, Chompret A, Kannengiesser C, Avril MF, Janin N, Spatz A, Guinebretiere JM, Marian C, Barrois M, Boitier F, Lenoir GM, Bressac-de Paillerets B. BRCA1, BRCA2, TP53, and CDKN2A germline mutations in patients with breast cancer and cutaneous melanoma. *Fam Cancer.* 2007;6(4):453-61
63. Anghel A, Mut-Vitcu B, Savu L, Marian C, Seclaman E, Iman R, Neghina AM and Dragulescu SI. Clinical improvement after treatment with VEGF165 in patients with severe chronic lower limb ischaemia. *Genomic Med.* 2007;1:47-55
64. Anghel A, Raica M, Marian C, Ursoniu S, Mitrasca O. Combined profile of the tandem repeats CAG, TA and CA of the androgen and estrogen receptor genes in breast cancer. *J Cancer Res Clin Oncol.* 2006;132(11):727-33.
65. Laud K, Marian C, Avril MF, Barrois M, Chompret A, Goldstein AM, Tucker MA, Clark PA, Peters G, Chaudru V, Demenais F, Spatz A, Smith MW, Lenoir GM, Bressac-de Paillerets B. Comprehensive analysis of CDKN2A (p16INK4A/p14ARF) and CDKN2B genes in 53 melanoma index cases considered to be at heightened risk of melanoma. *J Med Genet.* 2006;43(1):39-47
66. Anghel A., C. Marian, Mara Pitulescu, Alina Daba, I.O. Sirbu, V. Rusu and B. Budowle. Population Genetic Study of Eight Short Tandem Repeat Loci CSF1PO,

TPOX, TH01, F13A01, FESFPS, vWA, F13B and LPL in Western Romanian Population. Forensic Sci Int 2003;131(2/3):218-219