

CURRICULUM VITAE

WILLIAM JOHN CATALONA

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E-Mail: wcataloga@nm.org
- Pre-Medical Education:** Otterbein College, Westerville, OH 1964 - B.S.
- Medical Education:** Yale Medical School, New Haven, CT 1968 - M.D.
- Graduate Hospital Clinical Experience:**
- 1968-1969 - Intern (Surgery), Yale-New Haven Hospital
- 1969-1970 - Resident (Surgery), University of California, San Francisco, California
- 1970-1972 - Clinical Associate, NIH/NCI, National Cancer Institute, Bethesda, Maryland
- 1972-1976 - Resident (Urology), Johns Hopkins Hospital, Baltimore, Maryland
- Academic Positions:**
- 1976-1982 - Associate Professor of Surgery (Urology), Washington University School of Medicine
- 1982-2003 - Professor of Surgery (Urology), Washington University School of Medicine
- 1984-1998 - Chief of Urologic Surgery, Washington University School of Medicine
- 2003-present – Professor of Urology, Northwestern University Feinberg School of Medicine
- 2003-present – Director of the Clinical Prostate Cancer Program, Robert H. Lurie Comprehensive Cancer Center Northwestern University Feinberg School of Medicine
- Hospital Appointments:** Barnes-Jewish Hospital
St. Louis Children's Hospital
Barnes-Jewish West County Hospital
Northwestern Memorial Hospital
- Licensure:** Virginia 21472 (1971)

Maryland	D13338	(1971)
California	G26426	(1974), G192274 (2015)
Missouri	R7016	(1976)
Illinois	036108209	(2003)

Certification: American Board of Urology, 1978

Military Service: US Public Health Service, National Cancer Institute
Surgery Branch, NIH, Bethesda, Maryland (1970-72)

Societies: Fellow, American College of Surgeons
American Urologic Association
North Central Section, American Urologic Association
American Association of Genitourinary Surgeons
Clinical Society of Genitourinary Surgeons, President (2011)
Society of Urologic Oncology, President (1995-96)

Awards and Honors:

James Ewing Society Award for Cancer Research, 1972
Mid-Atlantic Section AUA, Resident Clinical Research Award, 1974
Clinical Research Award, AUA Grayson Carroll Essay Contest, 1974
American Cancer Society Clinical Fellow, 1974 - 1975
American Cancer Society Junior Faculty Fellow, 1977 - 1979
C.E. Alken Award for Research in Urology, 1979
American Urological Association, Gold Cystoscope Award, 1986
American Urological Association Annual Audio-Visual Award, First Prize, 1988
American Urological Association, Hugh Hampton Young Award, 1994
The Johns Hopkins Society of Scholars, 1994
American Urological Association, Eugene Fuller Triennial Prostate Medal, 1998
American Association of Genitourinary Surgeons, Barringer Medal, 1999
Fellow, St. Louis Academy of Science, 2002
American Association of Genitourinary Surgeons, Edward L Keyes Medal, 2003
Florida Prostate Cancer Network, Gen. H. Norman Schwartzkopf Pioneer in Prostate Cancer Award, 2005
Society of Urologic Oncology, Charles Huggins Award, 2005
Prostate Cancer Foundation, D.S. Coffey Physician-Scientist Award, 2005
National Prostate Cancer Coalition's Golden Glove Award, 2006
New York Academy of Medicine, Ferdinand C. Valentine Medal, 2007
Alpha Omega Alpha, Honorary Medical Society, Northwestern Univ. 2010
Ramon Guitierrez Lecturer, American Urological Association 2011
Society of Basic Urology Research Distinguished Service Award 2013
German Urological Association – Honorary Member 2013
William Wallace Scott Lecturer, Johns Hopkins, 2014
Northwestern University Urology Chief Residents award for “outstanding contributions to resident education” (2015)
Clinical Society of Genitourinary Surgeons Honorary Member (2016)
Castle-Connolly National Physician of the Year Award (2016)
American Urological Association, Honorary Member (2017)
Urology Care Foundation Richard D. Williams, MD Prostate Cancer Research Excellence Award (2019)

American Urological Association, Ramon Guiteras Award (2020)

Special Committee Appointments:

Assistant Editor, *Journal of Urology*, 1978-1986

Editorial Board, *Investigative Urology*, 1980-1985

Field-Editor, *World Journal of Urology*

Editor, *Quest* 1996 - present

American Board of Urology Certification Examination Committee 1982-1986 (leader of urologic oncology section 1986)

Editorial Board, *Advances in Urology*

Member Consultant, American Urological Association Program Committee

Editorial Board, Urological Survey Section, *Journal of Urology*, 1988-1992

Consultant, NIH Organ Systems Coordinating Center Prostate Cancer Working Group

Scientific Advisory Committee, National Kidney Foundation

Medical Affairs Committee, American Cancer Society

Consulting Editor, *Urology*

Medical Advisory Committee, CaP CURE (Prostate Cancer Foundation)

Spokesperson on Prostate Cancer Screening, American Urological Association, Inc.

Medical Director, Urological Research Foundation 1984 –present

President, Society of Urologic Oncology (1995-1996)

Member National Comprehensive Cancer Network Panel on Early Detection of Prostate Cancer

Co-Chair, Genetics Working Group, Prostate Specialized Programs of Research Excellence (SPORE), National Cancer Institute, NIH/NCI

PI SPORE in Prostate Cancer – 2013-present

Research Activities: Cancer Biology (Intravesical BCG Therapy for Bladder Cancer, PSA-based Screening for Prostate Cancer, Genetics of Prostate Cancer)

C. Contributions to Science (from NIH Biosketch)

1. Prostate-specific antigen (PSA) as a first-line screening test for PCa

Historical background: Before the work of my colleagues and me, the digital rectal examination was the only first-line screening test for PCa. PSA had been used for monitoring the response to treatment of patients already diagnosed with PCa, but it was not believed that it could be used as a first-line screening test.

Central findings: In a prospective study of >1600 patients, we demonstrated that PSA outperformed DRE as a first-line screening test for PCa.^a

Influence of the findings on the progress of science: This ushered in the globalPSAscreening era, was a precursor of the pivotal study that led to FDA approval of PSA as an aid to the early detection^b, and served as an impetus for the randomized clinical trials of PSA-based screening. Two of these trials demonstrated a stage migration and 21-44% decrease in PCa-specific mortality. ^{c, d} Ecological data from the U.S. and Canada also show a > 50% decrease in PCa mortality during the PSA screening era. The PSA Study database also was a resource for numerous studies defining the operating characteristics of PSA testing.

Application of findings to health or technology

Despite the controversy concerning PSA screening, most major professional organizations currently recommend a shared decision making process concerning PSA testing.

My specific role: I conceived, executed and authored the original PSA study and led the multi-institutional pivotal study that achieved FDA approval of the PSA test. Manuscripts a and b below, on which I was first author, have been cited over 2350 times in papers by authors from 69 countries written in 22 different languages, and have been cited over 90 times in patents (Scopus).

- a. Catalona WJ, et al. Measurement of prostate-specific antigen in serum as a screening test for prostate cancer. *N Engl J Med.* 1991; 324:1156-61
- b. Catalona WJ, et al. Comparison of digital rectal examination and serum prostate specific antigen in the early detection of prostate cancer: results of a multicenter clinical trial of 6,630 men. *J Urol.*1994; 151:1283-90.
- c. Schröder FH, et al. Prostate-cancer mortality at 11 years of follow-up. *N Engl JMed.* 2012; 366:981-90.
- d. Hugosson J, et al. Mortality results from the Göteborg randomized population-based prostate-cancer screening trial. *Lancet Oncol.* 2010:725-32. PMID: PMC4089887

2. Free-to-total PSA test to increase the specificity of PSA screening

The total PSA test has limited specificity and can lead to false positive results upon testing. The free/total PSA ratio improves specificity of PCa screening in men with elevated total serum PSA levels and can reduce unnecessary prostate biopsies^{a,b}. This work led to the pivotal study that achieved FDA approval of the free PSA test to improve the accuracy of PSA testing.^c The free PSA test is now widely used in PSA-based screening for PCa. I helped conceive, execute and write the original free PSA study and led the multi-institutional pivotal study that achieved FDA approval of the free PSA test. As a group, the papers below have been cited over 1780 times in scholarly works and 46 times in patents (Scopus).

- a. Catalona WJ, et al, Evaluation of percentage of free serum prostate-specific antigen to improve specificity of prostate cancer screening. *JAMA.* 1995; 274:1214-20.
- b. Catalona WJ, et al. Prostate cancer detection in men with serum PSA concentrations of 2.6 to 4.0 ng/mL and benign prostate examination. Enhancement of specificity with free PSA measurements. *JAMA.* 1997; 277:1452-5.
- c. Catalona WJ, et al. Use of the percentage of free prostate-specific antigen to enhance differentiation of prostate cancer from benign prostatic disease: a prospective multicenter clinical trial. *JAMA.* 1998; 279:1542-7.

3. Pro PSA test to increase the specificity of PSA screening for clinically significant PCa

Adding pro-PSA measurements further improves specificity of PCa screening in men with elevated total serum PSA levels over free PSA and complexed PSA tests. My work has demonstrated that pro-PSA significantly improves cancer detection, further reduces unnecessary biopsies, and preferentially detects aggressive prostate cancers.^{a,b,d} This work led to the pivotal study that achieved FDA approval of the [-2] pro PSA as part of the Prostate Health Index (phi) to improve the accuracy of PSA testing.^c The phi test is commercially available and is increasingly gaining use for PCa screening. I helped conceive, execute and author the original pro-PSA studies and led the multi-institutional pivotal study that achieved FDA approval of the Prostate Health Index (phi) test. The manuscripts listed below have been cited collectively in scholarly works over 350 times by authors representing

32 countries and written in 11 languages. 3d has also received media coverage, including a feature in Reuters news (Scopus and Altmetric).

- a. Catalona WJ, et al. Serum pro-prostate specific antigen improves cancer detection compared to free and complexed PSA in men with prostate specific antigen 2 to 4 ng/ml. *J Urol.* 2003; 170:2181-5.
- b. Catalona WJ, et al. Serum pro-prostate specific antigen preferentially detects aggressive prostate cancers in men with 2 to 4 ng/ml prostate specific antigen. *J Urol.* 2004; 171:2239-44.
- c. Catalona WJ, et al. A multicenter study of [-2] pro-prostate specific antigen combined with prostate specific antigen and free prostate specific antigen for prostate cancer detection in the 2.0 to 10.0 ng/ml prostate specific antigen range. *J Urol.* 2011; 185:1650-5. PMID: PMC3140702
- d. Loeb S, et al. The prostate health index selectively identifies clinically significant prostate cancer. *J Urol.* 2015; 193:1163-9. PMID: PMC4404198

4. Discovery and replication of SNPs associated with PCa susceptibility

There was limited knowledge of single nucleotide polymorphisms (SNPs) associated with PCa *susceptibility*. I collaborated in the study by deCODE Genetics that discovered the first PCa risk allele on chromosome 8q24 and subsequently more than 10 other PCa risk SNPs. This was the first of many genome-wide association studies that have identified ~160 common PCa risk SNPs. These studies have increased the knowledge of genetic factors associated with PCa susceptibility. During these studies, we created a well-annotated biorepository for future studies. I provided DNA samples and phenotype data for the replication phase of the studies and participated in the writing of the manuscripts. Collectively, the manuscripts below have been cited over 1083 times in works by authors in 69 countries, including over 40 books and book chapters. These papers have also been cited 90 times in patents. (Scopus)

- a. Amundadottir LT, et al. A common variant associated with prostate cancer in European and African populations. *Nat Genet.* 2006; 38:652-8.
- b. Gudmundsson J, et al. A study based on whole-genome sequencing yields a rare variant at 8q24 associated with prostate cancer. *Nat Genet.* 2012; 44:1326-9. PMID: PMC3562711
- c. Gudmundsson J, Two variants on chromosome 17 confer prostate cancer risk, and the one in TCF2 protects against type 2 diabetes. *Nat Genet.* 2007; 39:977-83.
- d. Gudmundsson J, et al. Genetic correction of PSA values using sequence variants associated with PSA levels. *Sci Transl Med.* 2010; 2:62ra92. doi:10.1126/scitranslmed.3001513. PMID: PMC3564581

5. Discovery and replication of SNPs associated with PCa susceptibility/aggressiveness

There is limited knowledge of SNPs associated with PCa *aggressiveness*. I participated in the early microsatellite studies focusing on PCa aggressiveness^a as well as linkage studies, association studies and whole-exome sequencing studies of the ICPCG studies in familial PCa cases^b, and in the SPORE Genetics Working Group studies of aggressive PCa risk alleles.^{c,d} These studies have increased the knowledge of genetic factors associated with the more aggressive PCa phenotypes. This work led to the identification of genetic variants associated with PCa aggressiveness and have pointed the way to future studies that may have practical applications for targeted screening and active surveillance versus immediate treatment. I provided DNA samples and phenotype data for the discovery and replication

phases of the studies and participated in the design, organization, execution, analysis and writing of the SPORE Genetic Working Group studies. This newer work has been cited a total of 127 times by authors in 32 countries (Scopus).

- a. Witte JS, Goddard KA, Conti DV, Elston RC, Lin J, Suarez BK, Broman KW, Burmester JK, Weber JL, Catalona WJ. Genomewide scan for prostate cancer-aggressiveness loci. *Am J Hum Genet.* 2000 67:92-9. PMID: PMC1287106
- b. Teerlink CC, et al. International Consortium for Prostate Cancer Genetics. Association analysis of 9,560 prostate cancer cases from the International Consortium of Prostate Cancer Genetics confirms the role of reported prostate cancer associated SNPs for familial disease. *Hum Genet.* 2014; 133:347-56. PMID: PMC3945961
- c. Catalona WJ, et al. National Cancer Institute Prostate Cancer Genetics Workshop. *Cancer Res.* 2011; 71:3442-6. PMID: PMC3096727
- d. Helfand BT, Roehl KA, Cooper PR, Catalona WJ. Associations of prostate cancer risk variants with disease aggressiveness: results of the NCI-SPORE Genetics Working Group analysis of 18,343 cases. *Hum Genet.* 2015; 134:439-50.

GRANT SUPPORT

COMPLETED SUPPORT

Funding Agency: NIH/NCI
Period: 1/1/77 - 12/1/80
Grant Title: Immunologic Characterization of the Copenhagen Rat Prostatic Adenocarcinoma
Grant Number: 1 R26 CA25792-02
Principal Investigator: William J. Catalona, M.D.
Co-investigators: Timothy L. Ratliff, Ph.D.
Total Direct Costs:
Annual Direct Costs: \$176,633

Funding Agency: NIH/NCI
Period: 1/1/78 - 1/1/81
Grant Title: Suppressor Cell Activity in Bladder Cancer Patients
Grant Number: 1 R26 CA23855-02
Principal Investigator: William J. Catalona, M.D.
Co-investigators: Timothy L. Ratliff, Ph.D.
Total Direct Costs:
Annual Direct Costs: \$250,000

Funding Agency: NIH/NCI
Period: 1/1/80 - 1/1/83
Grant Title: Interferon: Effect on Immunity to Bladder Tumors
Grant Number: 1 R26 CA28860-01
Principal Investigator: Timothy L. Ratliff, Ph.D.
Co-investigators: William J. Catalona, M.D.
Total Direct Costs:
Annual Direct Costs: \$189,426

Funding Agency: NIH/NCI

Period:	5/1/84 - 4/30/92
Grant Title:	Mechanisms of Surgical Adjuvant Intravesical BCG
Grant Number:	5 R01 CA37926-08
Principal Investigator:	Timothy L. Ratliff, Ph.D.
Co-investigators:	William J. Catalona, M.D.
Total Direct Costs:	
Annual Direct Costs:	\$130,648
Funding Agency:	Biogen Company
Period:	1/1/85 - 1/1/89
Grant Title:	Comparison of Immuneron with Depo Provera In Patients with Metastatic Renal Cell Carcinoma
Grant Number:	
Principal Investigator:	William J. Catalona, M.D.
Co-investigators:	Timothy L. Ratliff, Ph.D.
Total Direct Costs:	
Annual Direct Costs:	\$19,300
Percent of Effort:	
Funding Agency:	NIH/NCI
Period:	1/1/86 - 1/1/89
Grant Title:	Surgery and BCG In Bladder Cancer: Immunological Effects
Grant Number:	1 R01 CA42487-01
Principal Investigator:	Timothy L. Ratliff, Ph.D.
Co-investigators:	William J. Catalona, M.D.
Total Direct Costs:	
Annual Direct Costs:	\$551,496
Percent of Effort:	
Funding Agency:	Adria Laboratories
Period:	1/1/89 - 1/1/91
Grant Title:	Combination Doxorubicin and BCG in The Treatment of Bladder Cancer
Grant Number:	
Principal Investigator:	William J. Catalona, M.D.
Co-investigators:	Timothy L. Ratliff, Ph.D.
Total Direct Costs:	
Annual Direct Costs:	\$60,000
Percent of Effort:	
Funding Agency:	NIH/NCI
Period:	5/1/92 - 4/30/93
Grant Title:	Intravesical BCG for Bladder Cancer: Role of Fibronectin
Grant Number:	2 R01 CA44426-04
Principal Investigator:	Timothy L. Ratliff, Ph.D.
Co-investigators:	William J. Catalona, M.D.
Total Direct Costs:	\$176,064
Annual Direct Costs:	\$176,064

Funding Agency: American Cancer Society
Period: 7/1/92 - 6/30/93
Grant Title: American Cancer Society Clinical Oncology Fellowship Award
Grant Number:
Principal Investigator: William J. Catalona, M.D.
Co-investigators: Robert B. Nadler, M.D.
Total Direct Costs: \$10,000
Annual Direct Costs: \$10,000

Funding Agency: American Cancer Society
Period: 7/1/93 - 6/30/94
Grant Title: American Cancer Society Clinical Oncology Fellowship Award
Grant Number:
Principal Investigator: William J. Catalona, M.D.
Co-investigators: Adam J. Gerber, M.D.
Total Direct Costs: \$10,000
Annual Direct Costs: \$10,000

Funding Agency: American Cancer Society
Period: 7/1/94 - 6/30/95
Grant Title: American Cancer Society Clinical Oncology Fellowship Award
Grant Number:
Principal Investigator: William J. Catalona, M.D.
Co-investigators: David Shepherd, M.D.
Total Direct Costs: \$10,000
Annual Direct Costs: \$10,000

Funding Agency: NIH/NCI
Period: 9/30/92 - 8/31/96
Grant Title: SPORE in Prostate Cancer
Grant Number: 5 P20 CA58193-03S1
Principal Investigator: William J. Catalona, M.D.
Co-investigators:
Total Direct Costs: \$237,661
Annual Direct Costs: \$89,572

Funding Agency: NIH/NCI
Period: 5/1/93 - 1/17/97
Grant Title: Intravesical BCG for Bladder Cancer: Role of Fibronectin
Grant Number: 2 R01 CA44426-07A1
Principal Investigator: Timothy L. Ratliff, Ph.D.
Co-investigators: William J. Catalona, M.D., E.J. Brown
Total Direct Costs: \$585,722
Annual Direct Costs: \$136,219

Funding Agency: United States Army Medical Research and Materiel Command
Period: 9/1/99- 8/30/02
Grant Title: An LOH Study of Chromosome 8 in Multiplex Prostate Cancer
Sibships
Grant Number: PC991098

Principal Investigator:	Brian Suarez, M.D., Ph.D.
Co-investigators:	William J. Catalona, M.D. Daniela Gerhard, Ph.D.
Total Direct Costs:	\$233,691
Funding Agency:	Hybritech Incorporated
Period:	1/1/89 - present
Grant Title:	Prostate Specific Antigen Screening for Prostate Cancer
Grant Number:	
Principal Investigator:	William J. Catalona, M.D.
Co-investigators:	
Total Direct Costs:	\$1,595,418
Annual Direct Costs:	\$ 100,000
Funding Agency:	CaPCURE (Prostate Cancer Foundation)
Period:	10/1/94 - present
Grant Title:	Establishment of Prostate Cancer Tissue Bank
Grant Number:	
Principal Investigator:	William J. Catalona, M.D.
Co-investigators:	
Total Direct Costs:	\$725,000
Annual Direct Costs:	\$225,000
Funding Agency:	Harvard/NIH Subcontract
Period:	4/7/97 - 1/31/98
Grant Title:	Dietary and Biochemical Markers of Prostate Cancer Risk
Grant Number:	2 R01 CA58684-05
Principal Investigator:	William J. Catalona, M.D.
Co-investigators:	
Total Direct Costs:	\$ 48,824
Annual Direct Costs:	\$ 19,570
Funding Agency:	USAMRMC
Period:	10/1/98- 9/30/00
Grant Title:	Patient Preferences for Outcomes Associated with Surgical Management of Prostate Cancer
Grant Number:	N/A
Principal Investigator:	William J. Catalona, MD
Consultant:	Deborah Smith, PhD
Total Direct Costs:	\$120,916
Annual Direct Costs:	\$ 61,327
Funding Agency:	Boehinger Mannheim Corp.
Period:	4/98
Grant Title:	Determination of Elecsys Total and Free PSA Levels
Grant Number:	N/A
Principal Investigator:	William J. Catalona, MD
Co-Investigator:	
Total Direct Costs:	\$180,000
Annual Direct Costs:	\$ 35,833

Funding Agency: Monsanto Company
Period: 1/7/98- 1/6/99
Grant Title: Cyclooxygenase Inhibitors in Prostate Cancer: Phase I
Grant Number: N/A
Principal Investigator: William J. Catalona, MD
Co-Investigator:
Total Direct Costs: \$ 20,000
Annual Direct Costs: \$ 10,000

Funding Agency: UroMed
Period: 1/5/98- 12/31/00
Grant Title: A Multi-Center Clinical Evaluation of the CaverMap Surgical Aid for Use During Radical Prostatectomy
Grant Number: #SPOT 1197
Principal Investigator: William J. Catalona, MD
Co-Investigator:
Total Direct Costs: \$ 16,400
Annual Direct Costs: \$ 4,275

Funding Agency: Pfizer, Inc.
Period: 3/98
Grant Title: A Study to Evaluate the Impact of Viagra on Treatment Satisfaction
Grant Number: R-0529
Principal Investigator: William J. Catalona, MD
Total Direct Costs: \$ 12,000
Annual Direct Costs: \$ 4,680
Percent of Effort:

Funding Agency: NIH/NCI
Period: 5/05-4/06
Grant Title: SPORE in Prostate Cancer: Project #3 Generation of and Angiostatin Levels in Prostate Cancer (C546)
Grant Number: P50 CA090386
Principal Investigator: Lee
Co-Investigator: William J. Catalona, MD
Total Direct Costs: \$ 131,558
Annual Direct Costs: \$ 131,558

Funding Agency: NIH/NCI
Period: 6/05 – 5/07
Grant Title: Humoral Immune Responses in Prostate Cancer
Grant Number: 1-R21-Ca112153-01
Principal Investigator: Haab
Co-Investigator: William J. Catalona, MD
Total Direct Costs: \$ 14,665
Annual Direct Costs: \$ 7,420
Percent of Effort: 1

Funding Agency: NIH/NCI
Period: 9/05-6/10
Grant Title: Evaluation of Predictive Signatures of Prostate Cancer
Grant Number: 1-R21-CA114810-01
Principal Investigator: Mercola
Co-Investigator: William J. Catalona, MD
Total Direct Costs: \$ 346,625
Annual Direct Costs: \$ 65,379
Percent of Effort: 1

Funding Agency: Beckman Coulter (BCI)
Period: 09/01/2006 - 08/31/2007
Grant Title: Evaluation of the Clinical Utility of the Beckman Coulter Access Immunoassay System Prostate Disease Markers in Distinguishing Between Malignant and Non-Malignant Prostate Disease and to Determine Aggressive Disease
Principal Investigator: William J. Catalona, MD
Total Direct Costs: Phase 1 \$15,290; Phase 2 \$75,000

Funding Agency: Beckman Coulter (BCI)
Period: 04/23/08-05/31/10
Grant Title: Evaluation of the Clinical Utility of the Beckman Coulter's Prostate Disease Markers in Distinguishing between Malignant and Non-Malignant Prostate Disease using the Access Immunoassay System
Principal Investigator: William J. Catalona, MD
Total Direct Costs: \$89,876

Funding Agency: NIH, NCI
Period: 8/01 – 7/06
Grant Title: Northwestern University, Robert H. Lurie Cancer Center
SPORE (C502)
Grant Number: P30 CA60553
Principal Investigator: Rosen
Co-Investigator: William J. Catalona, MD
Total Direct Costs: \$ 31,781
Annual Direct Costs: \$ 7,065
Percent of Effort: 5

Funding Agency: NIH/NCI
Period: 06/01/01 -01/31/14
Grant Title: SPORE in Prostate Cancer
Grant Number: 2 P50CA090386-06A2
Principal Investigator: Lee/Catalona (after 2012)
Role: Program Co-Director and P.I. Project 4
Annual Direct Costs: \$1,612,932
Percent of Effort: 11.25

Funding Agency: NIH, NCI
Period: 07/07-08/12
Grant Title: Prostate Cancer Susceptibility: The ICPCG Study
Grant Number: U01 CA089600
Principal Investigator: Isaacs
Co-Investigator: William J. Catalona, MD
Annual Direct Costs: \$50,527
Percent of Effort: 2

Funding Agency: Department of Defense PCRP Physician Research Training Award
Period: 7/1/10-6/30/13
Grant Title: Vitamin D Levels & Related Genetic Polymorphisms, Sun Exposure, Skin Color and Risk of Aggressive Prostate Cancer
Annual Direct Costs: \$130,000
Role: Clinical Mentor
Percent of Effort: 0

Funding Agency: Northwestern Memorial Hospital Clinical Development Initiative Funds
Period: 09/01/08-08/31/11
Grant Title: CDI Fund Prostate CA Genetics
Principal Investigator: William J. Catalona, MD
Total Direct Costs: \$450,000

P30CA60553 (Platanias) 03/01/14 - 07/31/16 0.60 Calendar

NIH/NCI \$11,729

The Robert H. Lurie Comprehensive Cancer Center

Role: Program Co-Leader, Translational Research in Solid Tumors (completed 5/1/16)

P50CA090386 (Catalona) SPOR in Prostate Cancer NIH/NCI 02/01/13 - 07/31/15 1.56
Calendar \$83,578

U01CA089600 (Thibodeau) 09/01/13 - 08/31/18

NIH/NCI (Mayo Clinic Subcontract)

Prostate Cancer Susceptibility: The ICPCG Study

The goal has been to utilize NGS capability in a large set of prostate cancer families collected through the ICPCG to identify candidate prostate cancer susceptibility genes. Specific Aim 1: From affected men (cases) already analyzed by WES, select candidate PC susceptibility genes that will be used for further testing and selection in Aims 2 and 3. Specific Aim 2: Based on candidate genes identified in Specific Aim 1, reduce the number of candidate genes most likely to be PC susceptibility loci. Specific Aim 3: Based on candidate genes identified in Specific Aim 2, identify those most likely to be PC susceptibility loci. Specific Aim 4: Characterize likely pathogenic variants identified in Aim 3 in terms of prevalence and penetrance to establish their clinical relevance. Role: Northwestern University Site PI.

2017 Prostate Cancer Foundation Challenge Award (Mirkin) 17CHAL08 09/01/17 – 08/31/19
Role Co-I: "Spherical Nucleic Acids as Therapeutic Vaccines for the Treatment of Prostate Cancer" The goal is to develop a breakthrough immunotherapeutic agent for the treatment of metastatic castration resistant metastatic prostate cancer.

ACTIVE SUPPORT

*U54CA199091 NIH/NCI (Mirkin/Platanias) 09/01/15 – 07/31/20

Nucleic Acid-Based Nanoconstructs for the Treatment of Cancer

Project #3: Spherical Nucleic Acids as Immunotherapeutic Agents for Prostate Cancer (Mirkin)

The goal is to develop a new class of therapeutic vaccines for the treatment of prostate cancer.

Role: Project 3 Co-I

P50CA180995 (Catalona) 08/01/15 – 07/31/20 NIH/NCI SPORE in Prostate Cancer PI on the SPORE grant

Project 1: Impact of Germline Genetic Variants and Failure of Active Surveillance for Prostate Cancer,

Administrative Core, Developmental Research Program/Career Enhancement Program

The SPORE in Prostate Cancer at the Robert H. Lurie Comprehensive Cancer Center of Northwestern University (LCC), the University of Chicago Medicine Comprehensive Cancer Center (UCCCC), and NorthShore University HealthSystems (NS/UC), with contributions from the University of California San Francisco (UCSF), University of Southern California (USC) and University of Pittsburgh. Includes four major projects: 1) Impact of germline genetic variants on failure of active surveillance for prostate cancer (Catalona, Witte, Helfand, Xu), 2) Glucocorticoid receptor antagonism in castration-resistant prostate cancer (Szmulewitz, Conzen), 3) EphB4 receptor kinase as a target in prostate cancer (Abdulkadir, Gill, Stadler, Hussain), 4) Targeting FoxA1-downstream pathways: a novel therapeutic strategy for castration-resistant prostate cancer (Yu, Kuzel). Role: Overall PI on SPORE grant, Clinical PI on Project 1, Director of Administrative Core

X01HG009642 (Catalona) PI: Center for Inherited Diseases Research (CIDR) grant on “Germline Genetic Variants and Failure of Active Surveillance (12/13/16) Role: Clinical PI.

Urological Research Foundation Calendar	09/01/06 – Open	0.00
Genetics of Prostate Cancer	\$700,000	

Funding is designated for Dr. Catalona’s research team.

PATENT

PSA Enzymatic Activity: A new biomarker for assessing prostate cancer aggressiveness.
Serial No: 14/033,169 Filing Date: September 20, 2013

Publications

- [SIRPB1 promotes prostate cancer cell proliferation via Akt activation](#)

Song Q, Qin S, Pascal LE, Zou C, Wang W, Tong H, Zhang J, Catalona WJ, Dhir R, Morrell M, Balasubramani GK, Lu Y, Wang Z

Prostate. 2020 Mar; 80(4): 352-364.

<https://doi.org/10.1002/pros.23950>

PMID: [31905248](#) ISSN: 0270-4137

- [EPHB4 inhibition activates ER stress to promote immunogenic cell death of prostate cancer cells](#)

Sagar V, Vatapalli R, Lysy B, Pamarthy S, Anker JF, Rodriguez Y, Han H, Unno K, Stadler WM, Catalona WJ, Hussain M, Gill PS, Abdulkadir SA

Cell Death and Disease. 2019 Nov; 10(11):

<https://doi.org/10.1038/s41419-019-2042-y>

PMID: [31641103](#)

- [Approaches to urinary detection of prostate cancer](#)

Eskra JN, Rabizadeh D, Pavlovich CP, Catalona WJ, Luo J

Prostate Cancer and Prostatic Diseases. 2019 Sep; 22(3): 362-381.

<https://doi.org/10.1038/s41391-019-0127-4>

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