

Nicholas Tsinoremas, Ph.D.

ntsinoremas@miami.edu

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I. PERSONAL

Current Academic Rank: Professor
Primary Department: Department of Biochemistry and Molecular Biology
Secondary Appointments: Department of Computer Science
Department of Health Informatics
Department of Orthopaedics

Citizenship: USA

II. HIGHER EDUCATION

University of Leeds, England; PhD in Biochemistry and Molecular Biology; 1991
University of Athens, Greece; BS in Chemistry; 1988

III. EXPERIENCE

University of Miami; Professor, Department Professor of Orthopaedics, 2024 - present

Participate in curriculum committees, occasionally teach courses in this area, and engage research.

University of Miami; Professor, Department Professor of Biochemistry and Molecular Biology, 2020 – present

Tenured professor participating in curriculum committees, occasionally teach courses in this area, and engage in biochemistry and molecular biology research.

University of Miami, Founding Director, Frost Institute of Data Science and Computing; 2019 - Present

The University of Miami established the Frost Institute for Data Science and Computing (IDSC) to transform itself into an innovative leader in data science—encompassing research, education, ethics, and service—through cross-disciplinary, industrial, and governmental collaborations, and in interactions with local and global communities. Specifically, the Institute focuses on (1) Empowering researchers from all schools and colleges and from University administration to solve real-world problems with data science; (2) Conducting first-class research in key areas of data science and its application; (3) Infusing data science into instructional programs, (4) Fostering discussion about—and seeking solutions to—the moral and ethical challenges of data use and corresponding computational technologies (5) Increasing interest in and understanding of data science among the general public and (6) Developing governmental and industrial collaborations and consortia through data science to solve critical problems

The Institute is organized around thematic research programs that focus on key areas of societal need such as Atmosphere, Ocean and Earth Science, Data Driven Discovery in Biological Sciences and Health Care, Urban Lab and Smart Cities and around cross-disciplinary research platforms that conduct basic and applied research such as Artificial Intelligence and Machine Learning, Visualization, Data Communication and Information Design, Data Ethics and Society, and the resources of its Technology Platforms (formerly known as CCS - Center for Computational Science).

As Director, I am responsible for the Institute's success and scientific direction and report to the Provost of the University. I am responsible for the allocation of resources, faculty and staff recruitment, and the negotiations of hardware and software contracts.

University of Miami, Vice Provost for Data and Research Computing, 2018 – 2026

Chair the Data Governance Committee for the University of Miami. This committee determines the standardizations, operations, and analytics for all UM data including, but not limited to, health care data, advancement, student admission data and general student life data. Advise the Provost on the Research Computing strategy for the University on recruitment of faculty in Data Science field and developing the computing research infrastructure. Work closely with the CIO to determine the IT services for faculty and students as relates to research and data intense computing.

University of Miami, Founding Director, Center for Computational Science; 2007 – 2019

The Center for Computational Science (CCS) is a pan-institutional resource providing extraordinary intellectual, hardware, and software resources to the University's research community. CCS is responsible for the design and maintenance of major high advance computer systems that support work in fields such as genomics, computational biology, systems medicine, marine ecosystems, ocean modeling, climate and meteorology, computational economics, big data, smart cities, and social systems informatics to name a few. CCS rapidly emerged as a leading center with a cyber infrastructure that is among the nation's top academic centers and is the leading center in the State of Florida. The Center has a professional software engineering group that collaborates with the research community to provide high level data management and software solutions that enable effective and efficient dissemination of information. Additionally, the Center has several analytical groups that engage in developing state-of-the-art analytic methodologies ranging from bioinformatics and systems medicine approaches to smart and connected cities and health care.

As Director, I am responsible for the Center's success and scientific direction and report to the Provost of the University. I am responsible for the allocation of resources, recruitment, and the negotiations of hardware and software contracts. I serve as key advisor to the Provost for advance computing and disruptive technologies regarding aspects of University businesses for teaching to research to health care.

I also served as a co-PI on a \$180 million grant for the State of Florida to develop state-of-the-art genomics and translational technologies at the Miller School of Medicine. In this capacity, I recruited more than twenty Bioinformatics faculty and staff along with specialized IT professionals and developed the human and computing infrastructure that enables Genomics and Translational Research at the University of Miami. We currently have over 8 PB of genomics and high throughput data which is growing fast. We anticipate we will reach to over 15 PB in the next two years.

Additionally, I served as a member of Research Cabinet for the Medical School. The Research Cabinet is responsible for providing strategic direction and planning for all research activities across the Medical School and assists the Dean in determining future strategic directions on research investments.

University of Miami, Miller School of Medicine, co-Chair, Precision Medicine Task Force, 2015-2018

Helped develop a strategic vision and implementation plan for Precision Medicine for the UM Miller School of Medicine and the UHealth System. The first phase of the plan consisted of providing precision medicine to UHealth patients in a routine clinical setting by integrating molecular profiling tests and EHR data. A business plan was also developed as part of this process and, in 2016, started implementation in two major disease areas besides cancer.

University of Miami, co-Director of Biomedical Informatics, Miami Clinical and Translational Science Institute; 2012 – 2023

Responsible for developing the clinical and translation research infrastructure for the Miller School of Medicine. My team is responsible for the design and implementation of University Research Information Data Environment (URIDE) which is based on state of-the-art big data technologies that bring together clinical and discovery (including genomics) data and allow intelligent and rapid querying that integrates both worlds of biomedical research.

University of Miami; Professor, Department Informatics and Health Data Science; 2010 – Present

Participate in the curriculum committees, occasionally teach courses in this area, and engage in health care analytics research using big data.

University of Miami, Interim Director of Bioinformatics and Biostatistics, Sylvester Comprehensive Cancer Center (SCCC); 2009-2012

Re-organized the clinical informatics and biostatistics groups, established and recruited a bioinformatics group as well as the permanent Director for the group. Member of the leadership committee of SCCC and special advisor to the Director for all informatics, a role that I still hold.

University of Miami; Professor, Department of Computer Science; 2008 – Present

Participate in research in bioinformatics, and computational genomics. Main areas of focus methodologies and algorithms understanding the dark matter of the Human Genome.

University of Miami; Professor, Department of Medicine; 2007 – 2020

Engage in active research in systems medicine, big data and translational research. Research projects include with non-coding RNA, with specialty in cancer and neurodegenerative diseases. Systems Medicine and big data approaches to identify disease biomarkers and best networks for targeted drug development

The Scripps Research Institute; Senior Director and Head, Department of Informatics; 2004- 2007

Recruited personnel and managed the Informatics and Information Technology (IT) Departments at Scripps Florida. The Informatics Department had eighteen members and was responsible for providing expertise in all informatics-related and IT areas, ranging from chemo-informatics and high through-put screening, to computational biology and algorithm development, and high-performance computing. My group consisted of world-class bioinformatics scientists, computer scientists, and scientific software engineers. The Department focused on five main areas: Scientific Computing/High Performance Computing, Scientific Software Engineering, Computational Genomics, Cheminformatics, and Statistical Sciences/Data Mining.

Planned and consulted with the COO and President of The Scripps Research Institute the Informatics and IT budgets, building design, and personnel for the present facilities. I was responsible for the planning and execution of the IT budget for the new Scripps Florida campus that consisted of three buildings and nearly 400,000 square feet. The IT component was responsible for all network, client services, security, high performance computing, telephony and media for the research facility.

One of the main goals of my research focused on identifying key intervention points for drug discovery in the areas of inflammation and autoimmune diseases like lupus. We were combining approaches to human and mouse genetics and genomics (gene expression and Proteomics) to prioritize genes and reconstruct disease networks. More specifically we were using Whole Genome Association studies to identify causative genes in human lupus and were complementing these studies with an in-silico approach using the mouse lupus model.

Director of Informatics and co-investigator on two ~\$10MM Roadmap NIH grant for Molecular Screening of Small Molecule Libraries (MLSCN (The Scripps Research Institute and Columbia University)). My group is responsible for the automation, database design and operation, and analysis of screening and chemical compound data, as well as developing tools for lead optimization and predictive modeling.

Developed various collaborations with companies, like IBM, SUN Microsystems MDL and SAS, and academic institutions (e.g. Columbia University, University of Florida, University of Miami) to pursue sponsored research in computational biology, clinical genomics bioinformatics, and cheminformatics. With the academic institutions I partnered with faculty to develop grant proposals for large-scale program grants.

Merck and Co.; Senior Director, Genomic Discovery and Computational Genomics and Informatics; 2002-2004

During my first year, I led a multidisciplinary project called the Drug Target Annotation Program (DTAP). The objective of this project was to discover and annotate all genes in the human genome using a combination a computational and gene expression strategies. The most interesting genes were validated and patents are being filed. My immediate group of bioinformatics scientists and analysts were directly responsible for developing the database infrastructure and analysis tools and methodologies where the integration and analysis of the different data types takes place. My group, using the microarrays developed for DTAP, was also responsible for generating a Merck proprietary Gene Expression Atlas of all known and predicted genes. This resource is now available to all MRL scientists worldwide.

After the first year, I re-directed and focused the DTAP program to better define and study in great detail the alternative splice patterns of the Merck drug target genes. Using a combination of microarray technology, bioinformatic approaches, and development of new methods, a large part of my group was responsible for discovering and validating novel alternative splice forms of high value drug target genes. Numerous collaborations have been established with the Merck therapeutic franchises around this program. The most interesting alternative splice forms are being patented aggressively. Some of this work has also generated multiple manuscripts for publication that are in the preparation stage.

A smaller part of my group was involved in collaboration with the Research Genetics group, where we study human and mouse forward genetics and the genetics of gene expression for discovery and prioritization of new drug target genes. My group provided the database infrastructure, bioinformatics and computational analysis of the genetics and micro array data.

During my time at Merck, I recruited and organized a team of eleven scientists and analysts to operate in a multidisciplinary and metrics-based organization. I have also established significant collaboration with the therapeutic teams around specific projects of high interest to Merck.

I have served as a member of the informatics committee that evaluated external bioinformatics and genomics products and determines the overall informatics strategy for Merck.

Consulted with the VP of Informatics concerning the strategic development of tools and projects that would have an impact in MRL worldwide.

DoubleTwist Inc.; Vice President, Genomics and Data Mining Tools; 2001-2002

Developed product strategy for all five of DoubleTwist's Genomics and Data Mining products in 2000-2001. I managed a group of bioinformatics scientists which grew to sixteen people over two years; this group was organized into three separate areas of expertise. The Associate Director of On-line Products, Associate Director of Data Mining Tools and Senior Scientist for Human Genomics reported directly to me.

My group was responsible for providing the scientific leadership of the company as we defined the scientific foundation for DoubleTwist's products.

Responsible for the strategic positioning of DoubleTwist products and direction through critical assessment of market trends and emerging technologies.

Consulted with the CEO and COO concerning all of DoubleTwist's strategic business partnerships, including potential mergers and acquisitions.

DoubleTwist Inc.; Director, Research; 1999- 2001

Directly responsible for the creation, scientific direction, design and marketing of Prophecy, DoubleTwist's Human Genome Database; this was a large and diverse project that involved nearly two dozen software engineers, biocomputational scientists and molecular biologists. A large part of this project concerned the development of an "intelligent" data mining genomic viewer that facilitates interpretation, analysis and curation of the genomic data. Soon after its introduction to the market, Prophecy became the flagship product of DoubleTwist and generated over \$25 million in revenues in the first eighteen months.

I recruited and built a team of bioinformatics scientists and associates that was responsible for defining and directing the scientific development of all bioinformatics programs.

I was an integral part of the team that was responsible for all the scientific strategic partnerships and alliances over a period of two years.

Incyte Pharmaceuticals; Bioinformatics Scientist, Department of Bioinformatics; 1999

Member of the data flow team that was responsible for designing the architecture of the Incyte Human Genome Project. More specifically, I designed the data analysis part of this process. In addition, I was in the team that designed the initial data flow and analysis architecture for Incyte's micro- array expression data.

Progenitor, Inc.; Biocomputational Scientist, Department of Computational Biology 1997-1998

Progenitor ceased operations as of December 1998. While I was at Progenitor, I worked on the Gene Discovery teams for Asthma and Angiogenesis. As a Biocomputational Scientist, I assisted with the development of the expert system, Surveyor. This expert system was designed to organize a large number of sequences and automatically categorize and classify them using the functional/structural information of the DNA and Protein sequences. I was also the algorithm and overall designer of a data-mining program called the Excavator. Excavator used a combination of Data Mining and Biological Algorithms to identify ESTs from public or proprietary databases that encode novel proteins which share significant similarities to known key proteins that serve as drug targets. Over 80 unique ESTs/clones were identified and 10 novel full-length genes were cloned. I was also instrumental in initiating an expression-analysis project for our Angiogenesis program using medium density DNA micro-arrays.

Energy Biosystems Corporation; Research Scientist III, Department of Molecular Biology and Biochemistry; 1997-1998

Core member of a team that successfully employed classical methods of directed protein in order to broaden and/or change the specificity of the enzymes (dsz) involved in dibenzothiophene desulfurization. New strategies and high throughput screenings were developed to increase further the specific activity of the enzymes. I also used bioinformatics tools to model the dsz enzymes and identify other potential genes to provide more diversity. My research at Energy Biosystems led to the filing of an invention disclosure that describes these new strains and genes. This patented discovery contributed greatly to the development of the company's product and accelerated the timetable for its development and marketing.

Texas A&M University; Research Scientist, Department of Biology; 1992-1997

Worked on a project funded by the NSF and the Human Frontiers Program. Using unicellular organisms as a model system, this project studied the molecular aspects of the circadian clock and, more specifically, how photoreceptors were able to entrain the biological clock. I was also involved in a project studying the circadian clock in chick CNS, more specifically, understanding the molecular mechanism by which melatonin receptor(s) are able to entrain the circadian clock.

University of Leeds and SERC Fellowship, Institut Pasteur, Paris, France; Research Fellow, Département de Physiologie Microbienne,; 1989-1991

While I was conducting research for my Ph.D., I had the opportunity to visit and work at the Institut Pasteur, Paris. This project, funded by the University of Leeds and the Institut Pasteur, focused on isolating and studying the gene of a phosphoprotein which is differently phosphorylated according to the light quality in photosynthetic blue-green algae.

IV. PUBLICATIONS

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The landscape of BRAF transcript and protein variants in human cancer. Marranci A, Jiang Z, Vitiello M, Guzzolino E, Comelli L, Sarti S, Lubrano S, Franchin C, Echevarría-Vargas I, Tuccoli A, Mercatanti A, Evangelista M, Sportoletti P, Cozza G, Luzi E, Capobianco E, Villanueva J, Arrigoni G, Signore G, Rocchiccioli S, Pitto L, Tsinoremas N, Poliseno L. Mol Cancer. 2017 Apr 28;16(1):85. doi: 10.1186/s12943-017-0645-4.

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V. PROFESSIONAL

Ongoing Funded Research

None

Pending Research Support

Project Number R56AG082187 (Desvariueux, Moise - contact MPI)

NIA

09/01/2024 - 08/31/2025

Multi-morbidity 3-City Alzheimer's Disease EHR Study (M3AD Study) \$5,387,160

Role: Co-Investigator

We propose to federate a unique multiethnic 3-city EHR consortium in NY, Miami and Chicago, encompassing 9 million patients records (59,000 of them with AD/ADRD) embedded in census-track level social determinants of health, and to use machine learning and novel dynamic predictive and causal inference methods to identify accelerators or decelerators of AD/ADRD.

Funded Research Performed

OT2HL161847-01/220367-5 Liu (UF) (PI)

NIH

2021/11/08-2023/10/31

Researching Covid To Enhance Recovery (Recover) Initiative

Role: Co-Investigator

The project leverage the Patient-Centered Clinical Research Network (PCORnet®) for PASC data science research in adults.

PI-CD33-PCOR

Task Force for Global Health, Inc

10/01/2020 – 07/31/2024

COVID-19 Electronic Health Data Initiative

\$278,175

Role: PI

The COVID-19 electronic healthcare data initiative project will demonstrate PCORnet site's ability to collect information on COVID data through the implementation of a nationally distributed data infrastructure. The collection of these COVID-19 data will help to answer critical questions to assist in the emergency response to the COVID-19 pandemic.

1OT2OD032581 (Core PI: Carlisle, NADPH)

09/17/2021-03/16/2024

NIH

\$1,422,000

A COMPUTATIONAL ECOSYSTEM TO SUPPORT ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING HEALTH DISPARITIES RESEARCH. Building a Consortium to Deliver Standards, Technology, Tools, and Data to Support Collaborative Interdisciplinary Health Disparities Research – Infrastructure Core
Subaward PI

The Infrastructure Core has a goal to engage HBCUs and MSIs in an effort to gauge their interest, capabilities, and capacity to apply artificial intelligence and machine learning-based approaches to data analysis.

UL1TR002736 (Sacco)

06/28/2018-05/31/2023

NIH

\$17,957,590

Miami Clinical and Translation Science Institute

Role: Biomedical Core Director

This project is part of a national consortium of research institutions working to transform clinical and translational research and helping accelerate laboratory discoveries into treatments for patients.

OT2HL161847 (Kaushal, Weill Cornell Medicine)	11/08/2021-05/23/2023
NIH	\$210,700
Adult PCORnet-PASC Response to the Proposed Revised Milestones for the PASC EHR/ORWD Teams (RECOVER)	
Subaward PI	
The PCORnet RECOVER EHR Consortium aims to be a highly participative collaboration, engaging the expertise and interest of participating systems as well as data.	
75F40119C10164	11/13/2020-09/29/2021
FDA Implementation of SHIELD-Harmonized Laboratory Data Standards.	\$83,350
Deloitte	
Role: Subaward PI	
This project focuses on implementing infrastructure that directly addresses laboratory data interoperability failures at their root by harmonizing how laboratory data Informatics standards are practically applied within healthcare institutions through a sole authoritative source.	
UM 2020-2234	4/1/2020 – 7/31/2020
University of Miami COVID-19 Rapid Response Grant	\$29,975
Developing a COVID-19 early detection, tracking and re-reporting system	
Role: PI	
The goal of this project was to utilize state-of-the-art machine learning techniques to leverage the metadata embedded in social media data for predictive analytics, and create a hyper-local geographic early detection system.	
1U54MD010722 (Cox, N; Lima, M; Weiss, R; Wilkins, C)	04/01/2016 – 3/31/2021
NIH	\$131,504
Center for Excellence in Precision Medicine and Population Health	
Role: Investigator	
The proposed Vanderbilt-Miami-Meharry Center of Excellence in Precision Medicine and Population Health will bring together institutions and faculty with substantial expertise in precision medicine and health disparities research among African Americans and Latinos/Hispanics	
CDRN1501- 26692 (Shenkman, E)	10/01/2015 – 10/31/2018
PCORI	\$8,175,731
One Florida Clinical Research Consortium	
Role: Subaward Principal Investigator	
This consortium is a statewide partnership among the University of Florida, University of Miami, Florida State University, health care systems, health plans, providers and patients; it also includes 22 hospitals, 914 clinical practices, and 4,100 physicians. The funding award will create a clinical data research network that is part of a larger collaborative initiative called the National Patient-Centered Clinical Research Network, or PCORnet .	
1UL1TR000460 (Sacco, R)	07/01/2011-05/31/2018
NIH	\$20,382,279
Miami Clinical and Translation Science Institute	
Role: Biomedical Informatics Core Director	
This project is part of a national consortium of research institutions working to transform clinical and translational research and helping accelerate laboratory discoveries into treatments for patients.	
UG3/UH3 (Züchner, Pericak-Vance, Carrasquillo)	08/26/2017-06/30/2018

NIH	\$3,849,511
"The South-East Enrollment Center (SEEC)"	
Role: Collaborator	
This project allows the University of Miami (UM) to join the NIH All of Us Research program, a growing precision medicine initiative, which aims to ensure that the benefits of personalized medicine are available to all. UM will join four major academic healthcare centers to create the SouthEast Enrollment Center consortium. UM will be able to contribute members of South Florida's impressively diverse populations to program enrollment, with a goal of 10,000 enrollees by the end of the first year.	
1620695 (Bottum)	07/01/2016-06/30/2017
NSF	\$748,490
RCN: Advancing Research and Education Through a National Network of Campus Research Computing Infrastructures – The CaRC Consortium	
Role: Co- Principal Investigator	
The goal of the Campus Research Computing (CaRC) Infrastructures Consortium is to provide a national forum for the exchange and dissemination of best practices, expertise and technologies, enabling the advancement of campus-based research computing activities.	
DMS-1410 771 (Clarke, J)	08/01/2013 – 07/31/2016
NSF	\$81,307
ATD: Statistical Ensembles for the Identification of Bacterial Genomes	
Role: Subcontract Principal Investigator	
M1401631 (Tsinoremas, N)	03/21/2014-09/21/2015
Pfizer	\$19,565
Sequence Analysis to Evaluate Retro-Element Medicated Non-Genotoxic Carcinogenicity in Rodents	
Role: Principal Investigator	
NIDA 1ROIDA06227-16 ^a (Mash, DC)	03/01/2011-02/28/2014
Carbon-14 Birth Dating of Neurons in Addiction	\$1,278,090
Role: Collaborator	
1RO1(Mash, DC)	06/01/2011 – 05/31/2014
NIH	\$378,675
CNS Mechanism in Cocaine-Related Sudden Death	
Role: Collaborator	
NIH W81XWH0710151 (Burnstein)	07/11/09 -04/30/2011
"Vav3 oncogene potentiation of androgen receptor signaling in prostate cancer"	\$1,924,311
Role: Investigator	
NGA/MLSCN 1 U54 MH074404-01	3/01/05- 2/28/011
"Scripps Research Institute Molecular Screening Center"	\$10,400,0000
This study is focused on high throughput chemical approaches integrated with state-of-the art post-genome sequence, cell, molecular, and in vivo biology to provide a rapid and facile mechanism for enhancing the process of biomedical science and the discovery of proof-of-concept molecules.	
PI: Hugh Rosen, PhD	
Role: Co-PI	

MLSCN 1 U54 HG003914-01

07/01/06-6/30/08

“Molecular Library Screening Centers
Network Center at Columbia University”

\$9,000,000

This study is focused on high throughput screening using phenotypic assays at the cellular and subcellular levels to identify bioactive compounds.

PI: James Rothman, MD

Role: Investigator – Director of Informatics/Cheminformatics

Dyadic SFP 1640

“Annotation of the Chrysoporium
lucknowense (“C1”) genome”

This study is focused on obtaining and annotating the genomic DNA sequence of C1, a proprietary fungal organism.

Role: Principal Investigator

Professional Organizations

2005 - 2010	Scientific Advisory Board, NextBio Inc, acquired by Illumina
2006 - 2009	College of Engineering and Computer Science Executive Advisory Council, Florida Atlantic University
2006 - 2010	Biotechnology Advisory Committee, Miami Dade College
2006 -2008	Board Member, Palm Beach County Library System
2009 -	Board Member, Southeastern Universities Research Association
2009 -	Advisory Board, Hussman Institute for Human Genomics, University of Miami
2010 - 2015	Editorial Board Member, Journal of Clinical Bioinformatics,
2010 -	Board Member, (Vice Chair 2013-2015) (Secretary of the Board (2015 – present) Sunshine State Research Computing Alliance (SSERCA)
2014 -	Editorial Board Member, Journal of Investigative Genomics
2014 -	Editorial Board Member, Journal Of Clinical And Experimental Genetics
2017-	Innovation Board of Coral Gables, special advisor to the Mayor of Coral Gables
2017-	Scientific Advisory Board Sivotec Analytics and Sivotet Bioinformatics

Other Professional Activities

2015 -	Special panel reviewer for CTSA awards, NCATS. I was a member of the CTSA review in all review panels with a exception of two due to conflict of interest. CTSA awards are very large and prestigious institutional awards for Academic Medical Centers and their partners with the sole purpose to accelerate clinical and translational research.
2002-	Reviewers for numerous journals, including, Science, Nature, Nature Communications, Nature Scientific reports, Frontiers series, Genome Medicine.

Invention Disclosures And Patents

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Patrick Loerch, and Nicholas Tsinoremas.
Alternative Spliced Isoforms of Nuclear Factor Kappa-B Subunit 1 (NFKB1)

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Patrick Loerch, and Nicholas Tsinoremas.
Alternative Spliced Isoform of Mitotic Centromere-Associated Kinesin (MCAK)

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Patrick Loerch, and Nicholas Tsinoremas
Alternative Spliced Isoforms of Sodium Channel, Voltage gated, Type III, Alpha (SCN8A)

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Christopher Raymond, and Nicholas Tsinoremas.
Alternatively Spliced Isoforms of Human ERBB2

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Patrick Loerch, and Nicholas Tsinoremas.
Alternatively Spliced Isoforms of Human MCAK (KNSL6)

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Patrick Loerch, and Nicholas Tsinoremas.
Alternatively Spliced Isoforms of Human SCN8A

Christopher Armour, John Castle, Phillip Garrett-Engle, Z. Kan, Patrick Loerch, and Nicholas Tsinoremas .
Alternatively Spliced Isoforms of Centromer Protein E (CENPE)

Nicholas Tsinoremas, Al Darzins and Charles Squires. The isolation of *Rhodococcus* strain I19 mutants capable of utilizing TMD370 DRM as a sole source of sulfur.