ASA 39th Annual Conference
“Andrology: Where Are We and Where Are We Going?”
April 5 – 8, 2014
InterContinental Buckhead Atlanta
Atlanta, Georgia
Program Chairs: Robert E. Brannigan, MD and Barry R. Zirkin, PhD
Location: Windsor Ballroom C-E

FRIDAY, APRIL 4, 2014
2:00 p.m. – 6:00 p.m. Registration/Information Desk Open
Location: Windsor Pre-Function Area

SATURDAY, APRIL 5, 2014
7:30 a.m. – 7:30 p.m. Registration/Information Desk Open
Location: Windsor Pre-Function Area
4:00 p.m. – 9:30 p.m. Exhibit Hall Open
Location: Windsor Ballroom AB

8:30 a.m. – 4:00 p.m. ASA Basic Science Workshop
(See pg. 27 for full program)
9:00 a.m. – 5:00 p.m. ASA Andrology Workshop
(See pg. 28 for full program)
1:00 p.m. – 5:15 p.m. ASA Special Symposium
(See pg. 29 for full program)
5:30 p.m. – 5:40 p.m. Welcome and Opening Remarks
5:40 p.m. – 6:00 p.m. Updates from NICHD & NIEHS:
Where Are We and Where Are We Going?
Stuart B. Moss, PhD
NICHD
Thaddeus T. Schug, PhD
NIEHS
6:00 p.m. – 6:20 p.m. Distinguished Andrologist Award
6:20 p.m. – 6:30 p.m. Centers for Disease Control and Prevention Welcomes ASA to Atlanta
Hubert Vesper, PhD
National Center for Environmental Health

6:30 p.m. – 7:30 p.m. EMIL STEINBERGER MEMORIAL LECTURE
iPS Cell Technology and Disease Research: Issues to be Resolved
Rudolf Jaenisch, MD
Massachusetts Institute of Technology
(Introduced by Erwin Goldberg, PhD)

7:30 p.m. – 9:30 p.m. Welcome Reception
Location: Windsor Ballroom AB

SUNDAY, APRIL 6, 2014
6:30 a.m. – 8:00 a.m. Past President’s Breakfast
Location: Trippe 1
6:30 a.m. – 6:30 p.m. Registration/Information Desk Open
Location: Windsor Pre-Function Area
7:00 a.m. – 4:00 p.m. Exhibit Hall Open
Location: Windsor Ballroom AB
7:00 a.m. – 8:00 a.m. Continental Breakfast in Exhibit Hall
Location: Windsor Ballroom AB

8:00 a.m. – 9:00 a.m. AUA LECTURE
Controversies in Vasectomy and Vasectomy Reversal
Jay I. Sandlow, MD
Medical College of Wisconsin
(Introduced by Robert E. Brannigan, MD)

9:00 a.m. – 9:15 a.m. Distinguished Service Award
9:15 a.m. – 10:45 a.m. SYMPOSIUM I – Stem Cells in the Male Reproductive Tract
Co-chairs: Marie-Claude Hofmann, PhD
Makoto Nagano, PhD, DVM
Unraveling Signaling Pathways Controlling Gonocyte Differentiation
Martine Culty, PhD
McGill University

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SCHEDULE OF EVENTS

Regulation of Spermatogonial
Stem Cells in the Adult Testis
William Wright, PhD
Johns Hopkins Bloomberg
School of Public Health

Human and Non-Human Primate
Stem Cells
Kyle Orwig, PhD
University of Pittsburgh School
of Medicine

10:45 a.m. – 11:00 a.m.
Break
Location: Windsor Ballroom AB

11:00 a.m. – 12:30 p.m.
Poster Session I
Location: Venetian

12:30 p.m. – 2:00 p.m.
MENTORING LUNCHEON
SPONSORED BY THE DIVERSITY AND TRAINEE AFFAIRS COMMITTEES
Embracing on a Scientific Career: Combining Administrative, Teaching and Clinical Responsibilities
Location: Trippe 1
William J. Bremner, MD, PhD
University of Washington
(Introduced by Peter Liu, MBBS, PhD)
*Not included in registration; ticket required

12:30 p.m. – 2:00 p.m.
Editorial Board Luncheon

12:30 p.m. – 2:00 p.m.
Lunch On Your Own

CONCURRENT ORAL SESSIONS

2:00 p.m. – 3:30 p.m.
Oral Session I: Molecular and Environmental Regulation of Male Reproductive Health
Location: Windsor C - E
Moderators: Kate Loveland, PhD
Jacquetta M. Trasler, MD, PhD

2:00 p.m. – Abstract #1
RESPONSIVENESS OF THE SPERMATOGONIAL STEM CELL POOL TO RETINOIC ACID
Ryan Anderson, BS, Melissa Oatley, MS and Jon Oatley, PhD
Washington State University
(Presented By: Jon Oatley, PhD)

2:15 p.m. – Abstract #2
THE TRANSLATIONAL REPRESSOR, Y-BOX PROTEIN 2 (YBX2/MSY2), BINDS THE CIS-ELEMENT (TCE) THAT INACTIVATES MOUSE PRM1 MRNA TRANSLATION IN ROUND SPERMATIDS.
Tamjid Chowdhury, BA and Kenneth Kleene, PhD
University of Massachusetts Boston
(Presented By: Kenneth Kleene, PhD)

2:30 p.m. – Abstract #3
KDMIA OVEREXPRESSION IN MOUSE TESTES ALTERS THE EPIGENETIC LANDSCAPE OF SPERM HISTONES AND IS IMPLICATED IN TRANSGENERATIONAL INHERITANCE
Keith Siklenka, Serap Erkek¹, Maren Godmann², Romain Lambrot², Christine Lafleur², George Chountalos², Tamara Cohen², Marilene Paquet³, Matthew Suderman², Mike Hallett², Serge McGraw², Donovan Chan², Jacquetta Trasler², Antoine Peters¹ and Sarah Kimmins³
¹Friedrich Miescher Institute for Biomedical Research, Switzerland; ²McGill University, Canada
(Presented By: Keith Siklenka)

2:45 p.m. – Abstract #4
CHRONIC EXPOSURE TO LOW DOSES OF DI-N-BUTYL PHthalate (DBP) RESULTS IN SMALLER TESTES, ABNORMAL TESTOSTERONE LEVELS, IMPAIRED BONE HEALTH AND GREATER WEIGHT GAIN IN ADULT MICE.
Sarah Moody, BBiomedSci¹, Hoey Goh, BBiomedSci¹, Rachelle Johnson, PhD², Natalie Sims, PhD², Kate Loveland, PhD¹ and Catherine Itman, PhD²
¹Monash University; ²St. Vincent’s Institute; ³University of Newcastle
(Presented By: Catherine Itman, PhD)

3:00 p.m. – Abstract #5
PRENATAL EXPOSURE TO AN ENVIRONMENTALLY-RELEVANT CONTAMINANT MIXTURE ALTERS THE EPIGENOME OF FATHERS, DECREASES THEIR FERTILITY AND THE HEALTH OF THEIR SONS IN A RAT MODEL.
Clotilde Maurice, PhD Student¹, Serge McGraw, PhD², Arnaud Droit, PhD², Jacquetta Trasler, MD, PhD², Sarah Kimmins, PhD² and Janice Bailey, PhD²
¹Université Laval; ²McGill University
(Presented By: Clotilde Maurice, PhD Student)

3:15 p.m. – Abstract #6
PRENATAL EXPOSURE TO A COMBINATION OF ENDOCRINE DISRUPTORS EXACERBATES EARLY AND LONG TERM EFFECTS ON MALE REPRODUCTIVE HEALTH AND DEVELOPMENT
Steven Jones, MSc¹, Annie Boisvert, MSc², Peter Thrane, BS², Sade Francois, BSc³ and Martine Culty, PhD⁴
¹McGill University, Research Institute of the MUHC, Division of Experimental Medicine, Montreal, Quebec; ²McGill University, Research Institute of the MUHC and Department of Medicine; ³McGill University, Research Institute of the MUHC; ⁴McGill University, Research Institute of the MUHC and Department of Pharmacology and Therapeutics; ²McGill University, Research Institute of the MUHC, Division of Experimental Medicine and Departments of Medicine and Pharmacology and Therapeutics
(Presented By: Steven Jones, MSc)

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2:00 p.m. – 3:30 p.m. | Oral Session II: Human Spermatogenesis: Novel Findings in 2014
Location: Hope
Moderators: Dolores J. Lamb, PhD
Kyle Orwig, PhD

2:00 p.m. – Abstract #7
LEVELS OF THE RETINOIC ACID SYNTHESIZING ENZYME ALDH1A2 ARE LOWER IN TESTICULAR TISSUE FROM MEN WITH INFERTILITY
John Amory, MD, MPH¹, Samuel Arnold, MS¹, Maria Lardone, MS², Antonio Piottante, MD³, Mauricio Ebensperger, MD⁴, Nina Isoher ranen, PhD⁵, Charles Muller, PhD⁶, Thomas Walsh, MD⁷ and Andrea Castro, MS⁸
¹University of Washington; ²University of Chile; ³Andres Bello University; ⁴San Borja Arriaran Hospital
(Presented By: John Amory, MD, MPH)

2:15 p.m. – Abstract #8
A MICROARRAY ANALYSIS OF UNIQUE GENES FOUND IN MEN WITH NON-OBSTRUCTIVE AZOOSPERMIA (NOA) AND VARICOCELES.
Jason Kovac, MD, PhD, Josephine Addai, BSc, Larry Lipshultz, MD and Dolores Lamb, PhD
Baylor College of Medicine
(Presented By: Jason Kovac, MD, PhD)

2:30 p.m. – Abstract #9
MICRORNA EXPRESSION IN MEN WITH CONFIRMED DIAGNOSIS OF EARLY MATURATION ARREST
Ali Dabaja, MD, Anna Mielnik, MS, Matthew S. Wosnitzer, MD, Peter N. Schlegel, MD and Darius A. Paduch, MD, PhD
Weill Cornell Medical College
(Presented By: Ali Dabaja, MD)

2:45 p.m. – Abstract #10
MALE INFERTILITY FROM OVERUSE OF MEDICAL TESTOSTERONE IN MEN IN THEIR REPRODUCTIVE YEARS – AN UNNECESSARY PROBLEM
William Parker, MD, Brian McArdle, DO, Arash Sattarin, Zachary Hamilton, MD and Ajay Nangia, MD
The University of Kansas
(Presented By: William Parker, MD)

3:00 p.m. – Abstract #11
POST-FINASTERIDE PERSISTENT SIDE EFFECTS MAY BE ASSOCIATED WITH PERSISTENT 5 ALPHA-REDUCTASE INHIBITION: A PILOT STUDY
Seth Cohen, MD, MPH
(Presented By: Seth Cohen, MD, MPH)

3:15 p.m. – Abstract #12
RECOVERY OF UNDIFFERENTIATED SPERMATOGONIA FROM THE TESTES OF PREPUBERTAL PATIENTS AFTER EXPOSURE TO CHEMOTHERAPY
Hanna Valli¹, Karen A. Peters², Brian P. Hermann¹, Meena Sukhwani³, Peter H. Shaw³, Joseph S. Sanfilippo³, Thomas M. Jaffe⁴ and Kyle E. Orwig⁵
¹Departments of Obstetrics, Gynecology & Reproductive Sciences, Molecular Genetics and Developmental Biology Graduate Program, University of Pittsburgh School of Medicine; ²Magee-Womens Research Institute, Pittsburgh, PA 15213; ³Department of Obstetrics, Gynecology & Reproductive Sciences and Magee-Womens Research Institute, Pittsburgh; ⁴Department of Pediatrics, University of Pittsburgh School of Medicine, Pittsburgh, PA 15260; ⁵Departments of Obstetrics, Gynecology & Reproductive Sciences, Center for Fertility and Reproductive Endocrinology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15260; ⁶Department of Urology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15260; ⁷Departments of Obstetrics, Gynecology & Reproductive Sciences, Center for Fertility and Reproductive Endocrinology, Molecular Genetics and Developmental Biology Graduate Program, University of Pittsburgh School of Medicine, Pittsburgh, PA 15260. Magee-Womens Research Institute, Pittsburgh, PA 15213
(Presented By: Hanna Valli)

3:30 p.m. – 4:00 p.m. | Break
Location: Windsor AB

4:00 p.m. – 4:45 p.m. | LECTURE I
What’s Good for the Spermatogonial Stem Cell May Be Bad for the Offspring: Advantageous Mutations that Increase the Incidence of Human Disease
Norman Arnheim, PhD
University of Southern California
(Introduced by Mary A. Handel, PhD)

4:45 p.m. – 5:30 p.m. | LECTURE II
Novel Spermatogenic Pathways and Male Contraception
Martin M. Matzuk, MD, PhD
Baylor College of Medicine
(Introduced by Jacquetta M Trasler, MD, PhD)

5:30 p.m. – 6:15 p.m. | SYMPOSIUM – Updates from the Centers for Disease Control and Prevention: Progress in Male Reproductive Health
Moderator: Steven M. Schrader, PhD
National Institute for Occupational Safety and Health, CDC

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SCHEDULE OF EVENTS

Insights Gained from CDC Surveys and Initiatives
Lee Warner, PhD
National Center for Chronic Disease Prevention and Health Promotion, CDC

CDC’s Hormone Standardization Program: A Focus on Testosterone
Hubert Vesper, PhD
National Center for Environment Health, CDC

Discussion: Potential Collaboration with Academic Programs and National Organizations

6:30 p.m. – 8:30 p.m.
Trainee Forum and Mixer
Location: Venetian
*All Trainee Travel Awards will be distributed and celebrated at this event

MONDAY, APRIL 7, 2014

7:00 a.m. – 6:00 p.m.
Registration/Information Desk Open
Location: Windsor Pre-Function Area

7:00 a.m. – 8:00 a.m.
Continental Breakfast
Location: Windsor Foyer

8:00 a.m. – 9:00 a.m.
WOMEN IN ANDROLOGY LECTURE
Hormone Signaling and Reprogramming in Human Prostate Stem Cells
Gail S. Prins, PhD
University of Illinois at Chicago
(Introduced by Donna L. Vogel, MD, PhD)

9:00 a.m. - 9:15 a.m.
Young Adrologist Award

9:15 a.m. – 10:15 a.m.
SYMPOSIUM II – Would You Give This Man Testosterone?
Case-Based Discussions
Moderators: Christina Wang, MD
Stephanie T. Page, MD, PhD
J. Lisa Tenover, MD, PhD
VA Palo Alto Health Care System
Peter N. Schlegel, MD
The New York Weill/Cornell Medical Ctr.

10:15 a.m. – 10:30 a.m.
Break
Location: Windsor Foyer

10:30 a.m. – 11:15 a.m.
DIVERSITY LECTURE
Disparities in Men’s Health: The Role of the Primary Care Physician
Charles S. Modlin, MD
Cleveland Clinic Foundation, Minority Men’s Health Center
(Introduced by George L. Gerton, PhD)

11:15 a.m. – 12:30 p.m.
Poster Session II
Location: Venetian

12:30 p.m. – 1:45 p.m.
WOMEN IN ANDROLOGY LUNCHEON AND DISCUSSION
What Successful Women Do Differently: Learning To Embrace Failure and To Take Risks
Location: Trippe
Moderator: Sophie La Salle, PhD
*Not included in registration fee; ticket required

1:45 p.m. – 3:15 p.m.
SYMPOSIUM III Spermatogenesis, Post-Testicular Sperm Maturation and Male Fertility
Co-Chairs: Gail A. Cornwall, PhD
Kenneth P. Roberts, PhD
Qualitative and Quantitative Aspects of the Hormonal Control of Spermatogenesis Revisited
Ilpo Huhtaniemi, MD, PhD, FMed-Sci
Imperial College, London
Ca2+ and cAMP Signaling Cross-talk During Sperm Capacitation
Pablo E. Visconti, PhD
University of Massachusetts
Aging Affects Germ Cells: From Genes to Fertility
Bernard Robaire, PhD
McGill University

3:15 p.m. – 3:30 p.m.
Break
Location: Windsor Foyer

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LECTURE III:
The Stress Hormone
Corticotropin-Releasing Factor
Acts in the Brain and the Testes to
Regulate Testosterone Secretion
Catherine Rivier, PhD
The Salk Institute for Biological Studies
(Introduced by Vassilios Papadopoulos, PhD)

LECTURE IV:
Pharmacological Regulation of
Steroid Biosynthesis: From Testis to Brain
Vassilios Papadopoulos, PhD
The Research Institute of the McGill
University Health Centre
(Introduced by Catherine Rivier, PhD)

ASA Business Meeting
Outstanding Trainee Investigator
and Trainee Awards

SYNOPSIS IV – PSA and Prostate Cancer Debate: Is PSA Screening A Rational Approach?
Moderators: Gail S. Prins, PhD
Arthur L. Burnett, II, MD

INTERNATIONAL LECTURE:
Pharmacogenetics of FSH
Manuela Simoni, MD, PhD
University of Modena and Reggio Emilia, Italy
(Introduced by Patricia S. Cuasnicu, PhD)

BREAK

SYNOPSIS V – Innovations in Male Environmental Health Protection
Co-Chairs: Sally Perreault Darney, PhD
Bernard Robaire, PhD

Thomas Knudsen, PhD
US Environmental Protection Agency

Response of Human Fetal Testis Xenotransplants to Environmental Toxics: Implications for Risk Assessment
Kim Boekelheide, MD, PhD
Brown University

Translation of the Science in Male Reproductive and Environmental Health for Evidence-Based Decisions by Clinicians, Regulators and the Public
Paula I. Johnson, PhD
University of California, San Francisco

MEETING ADJOURNED

Disclaimer Statement
Statements, opinions and results of studies contained in the program are those of the presenters/authors and do not reflect the policy or position of the ASA nor does the ASA provide any warranty as to their accuracy or reliability.
SCHEDULE OF EVENTS

*Basic Science Workshop
“Assessing Male Reproductive Function in the Laboratory”
8:30 a.m. - 4:00 p.m.
April 5, 2014
InterContinental Buckhead Atlanta
Atlanta, Georgia

Chair: Sophie La Salle, PhD

*Not CME Accredited

All sessions will be held in Hope unless otherwise noted.

SATURDAY, APRIL 5, 2014

7:30 a.m. – 7:30 p.m. Registration/Information Desk Open
Location: Windsor Pre-Function Area

4:00 p.m. – 9:30 p.m. Exhibit Hall Open
Location: Windsor Ballroom AB

Lunch

8:30 a.m. Session 1: Visualizing Male Reproductive Capacity
Rex Hess, PhD, University of Illinois, USA
Dolores Lamb, PhD, Baylor College of Medicine, USA
Gunapala Shetty, PhD, MD Anderson Cancer Center, USA

Break

Session 2: Markers and Mechanisms of Reproductive Function
Development and Assessment of Epididymal Function
Barry Hinton, PhD, University of Virginia USA

Oxidative Stress Markers and Role of Reactive Oxygen Species in Sperm Function
Cristian O’Flaherty, DVM, PhD, McGill University, Canada

Identification and Functional Assessment of Human Spermatogonial Stem Cells
Hooman Sadri-Ardekani, MD, PhD

Epididymal Sperm Preparation from Mice: Key Steps and Challenges
Genevieve Plante, PhD Candidate, Universite de Montreal, Canada

4:00 p.m. Adjourn

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# SCHEDULE OF EVENTS

*Andrology Lab Workshop*  
*“Post Vasectomy Semen Analysis: Lab Methods and Interpretation”*  
April 5, 2014  
InterContinental Buckhead Atlanta  
Atlanta, Georgia  
Program Chairs: Charles H. Muller, PhD, HCLD  

*Not CME Accredited*  
Location: Trippe

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| 7:30 a.m. – 7:30 p.m.   | Registration/Information Desk Open  
  *Location: Windsor Pre-Function Area* |
| 4:00 p.m. – 9:30 p.m.   | Exhibit Hall Open  
  *Location: Windsor Ballroom AB* |
| 9:00 a.m. – 9:15 a.m.   | Introduction  
  Charles H. Muller, PhD, HCLD |
| 9:15 a.m. – 10:15 a.m.  | Methods of Assessing Post-Vasectomy Semen  
  Charles H. Muller, PhD, HCLD  
  Susan Rothman, PhD, HCLD |
| 10:15 a.m. – 10:35 a.m. | Break  |
| 10:35 a.m. – 11:35 a.m. | Clinical Assessment of Post-Vasectomy Semen Analysis and Statistics of Small Numbers  
  Charles H. Muller, PhD, HCLD  
  Susan Rothman, PhD, HCLD |
| 11:35 a.m. – 12:00 p.m. | Exercise and Discussion (Needle in a Haystack) Committee  
  ALW Committee |
| 12:00 p.m. – 1:30 p.m.  | Lunch with Laboratory Science Forum |
| 1:30 p.m. – 2:20 p.m.   | Vas Recanalization and Vasectomy Failure  
  Charles H. Muller, PhD, HCLD |
| 2:20 p.m. – 2:40 p.m.   | Break |
| 2:40 p.m. – 3:30 p.m.   | AUA Recommendation: PVSA Office Microscopy Procedure and CLIA Requirements  
  ALW Committee  
  Susan Rothman, PhD, HCLD |
| 3:30 p.m. – 4:10 p.m.   | Panel Discussion of AUA Recommendation  
  ALW Committee, Faculty, Guests |
| 4:10 p.m. – 4:40 p.m.   | Conclusions, Summary, Questions  
  Charles H. Muller, PhD, HCLD |
| 4:40 p.m. – 5:00 p.m.   | Course Summary and Evaluation |
### Schedule of Events

**ASA Special Symposium**

*“Controversies in Testosterone Therapy: Cardiovascular Disease/Metabolic Syndrome, Prostate Cancer, and Fertility”*

April 5, 2014  
InterContinental Buckhead Atlanta  
Atlanta, Georgia

Program Chairs: Mohit Khera, MD and Allen D. Seftel, MD, FACS

**Location:** Windsor C-E

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| 7:30 a.m. – 7:30 p.m. | Registration/Information Desk Open  
*Location: Windsor Pre-Function Area* |
| 2:35 p.m. – 3:15 p.m. | Testosterone and Cardiovascular Disease  
Stephanie Page, MD, PhD |
| 3:15 p.m. – 3:30 p.m. | Should Testosterone be a Standard Annual Screen in Men?  
Tobias Kohler, MD, MPH |
| 3:30 p.m. – 3:45 p.m. | Questions and Answers |
| 3:45 p.m. – 4:00 p.m. | Break |

**Controversies in Testosterone Therapy and Prostate Cancer**

Moderators: Ethan Grober, MD, MEd, FRCSC; Larry Lipshultz, MD

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| 1:00 p.m. – 1:20 p.m. | Testosterone and Prostate Cancer: Understanding the Risks  
Abraham Morgentaler, MD |
| 1:20 p.m. – 1:40 p.m. | Basic Science Review of Testosterone and Prostate Cancer  
Abdulmaged Traish, PhD |
| 1:40 p.m. – 2:00 p.m. | Testosterone for Penile Rehabilitation following Radical Prostatectomy  
Mohit Khera, MD |
| 2:00 p.m. – 2:15 p.m. | Questions and Answers |
| 4:00 p.m. – 4:20 p.m. | Preserving Fertility in the Hypogonadal Patient  
Larry Lipshultz, MD |
| 4:20 p.m. – 4:40 p.m. | Anabolic Steroid Abuse and Infertility  
Ajay Nangia, MBBS |
| 4:40 p.m. – 5:00 p.m. | Understanding the Role of Testosterone in Fertility  
Dolores Lamb, PhD |
| 5:00 p.m. – 5:15 p.m. | Questions and Answers |

**Controversies in Testosterone Therapy and Cardiovascular Disease/Metabolic Syndrome**

Moderators: Allen Seftel, MD, FACS

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| 2:15 p.m. – 2:35 p.m. | Testosterone and Metabolic Syndrome  
Glenn Cunningham, MD |

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