

# Nathan H. Lents, Ph.D.

Macaulay Honors College  
John Jay College of Criminal Justice  
The City University of New York  
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## John Jay College, The City University of New York (CUNY) Aug 2006-present

### Current Positions:

Professor of Molecular Biology	Jan 2016 –
Director, Honors Program & Macaulay Honors College at John Jay College	Jan 2016 –
Faculty, Doctoral Program in Biochemistry (Graduate Center of CUNY)	Feb 2009 –

### Past Positions:

Director, Biology minor and Cell and Molecular Biology major	Jan 2014 – Jan 2016
Deputy Chair, Department of Sciences	Jan 2010 – Aug 2014
Director, Office of Undergraduate Research (O.U.R.)	Sep 2010 – Aug 2013
Associate Professor of Molecular Biology (with tenure)	Jan 2011 – Dec 2015
Assistant Professor of Molecular Biology	Aug 2006 – Dec 2010

## Current Ad-hoc Positions

Visiting Professor of Forensic Biology, University of Lincoln; Lincolnshire, U.K.	April 2013 – present
Forensic Science Legal and Educational Consultant, self-employed	Feb 2012 – present
Life Sciences Editor, The Visionlearning Project, New York, NY	June 2011 – present

## Education

Saint Louis University, School of Medicine	Aug 2000 – June 2004
Doctor of Philosophy, with distinction, conferred June 30, 2004	
Department of Pharmacological and Physiological Sciences	

Saint Louis University	Aug 1996 – Dec 1999
Bachelor of Science, Biology (Molecular) <i>Summa Cum Laude</i>	

## Languages

English, native; Spanish, near-fluent (reading/writing), upper advanced (speaking)

## Awards

- 2017 Distinguished Alumnus, Pre-commencement Address, Grad. Prog. in Biomedical Sciences (S.L.U.)
- 2011 Research Excellence Award, John Jay College, April **2011**
- 2009 Distinguished Teaching Award, John Jay College, April **2009**
- Nominated for recognition by one or more students on the Dean's List, John Jay College: **2007-2011, 2013**
- Saint Louis U. Graduate Student Association, Research Day Symposium **2002**, Second Place – Biology
- Sigma Xi Scientific Research Society, Saint Louis U., Research Day **2002**; First Place – Biological Sciences

## Current Committee and Administrative Assignments

- (also see current positions above)
- Appeals Committee, Faculty Personnel (Rank and Tenure) Committee, John Jay Coll. (**2014**-present)
- Chair, Committee on Honorary Degrees, John Jay College (member, **2011**-present; chair **2015**-present)
- Select Faculty Committee (for promotion/tenure cases remanded by arbitration), C.U.N.Y. (**2015**-present)
- Chancellor's Task Force on Experiential Learning, C.U.N.Y. (**2015**-present)
- Research Advisory Counsel, John Jay College (**2010**-2012 and 2014-present)
- Director, NSF-funded Scholarship Program for Computer Sci. & Forensic Sci. (**2008**-present)

## Selected Past Committee and Administrative Assignments of Note

- Founding Director, Cell and Molecular Biology major, John Jay College (2015)
- Founding Director, Biology minor, John Jay College (2014-2015)
- Deputy Chair, Department of Sciences, John Jay College (2010-2014)
- Founding Director, Office of Undergraduate Research (O.U.R.), John Jay College (2010-2013)
- Chair, advisory board for the Office of Undergraduate Research (O.U.R.), John Jay College (2010-2015)
- Department Personnel Committee (Rank, Tenure, Hiring), Dept. of Sciences, John Jay Coll. (2011-2015)
- Chair, committee to design and propose a major and a minor in Biology, John Jay College (2011-2015)
- Chair, *ad hoc* committee on first-year admission and success in STEM, Dept. of Sciences (2014-2016)
- Course and Laboratory Coordinator for all 100-level biology courses, John Jay College (2008-2015)
- Faculty search committees, Science Department, John Jay College (2008-2014, chair 2010-2014)
- College search committees: Director of Institutional Research (2011), Associate Provost for Research (2012)
- *Reader*, Biology Advanced Placement Exam; The College Board / Educational Testing Service (2011)
- Honor's Program Selection Committee, John Jay College (2010)
- Provost's Taskforce on the Scholarship of Teaching and Learning, John Jay College (2009-2010)
- Executive Committee, *University Committee on Research Awards*, CUNY (2008-2010)
- Admissions Committee, Masters Program in Forensic Science, John Jay College (2008-2010)
- College Scholarship Committee, John Jay College (2007-2011)
- Outcomes Assessment Committee, Science Department, John Jay College (2007-2011)
- Science Group Leader, *Alfred P. Sloan Foundation* initiative for online/hybrid courses, CUNY (2007-2008)

## Past Research Positions Held

- New York University Medical Center June 2004 – Aug 2006  
*Postdoctoral Research Fellow*  
Laboratory of Brian D. Dynlacht, Ph.D., Department of Pathology and NYU Cancer Institute  
Principle Project: *A genomic approach to examine the regulation of gene expression by proteins in the RB and E2F family during cellular senescence and oncogenic transformation*
- Saint Louis University, School of Medicine Aug 2000 – June 2004  
*Graduate Research Assistant and Ph.D. candidate*  
Laboratory of Joseph J. Baldassare, Ph.D., Department of Pharmacological and Physiological Sciences  
Dissertation Title: *CDK2, CAK, and pRb: Interactions Regulating G1 Phase Cell Cycle Progression*
- Saint Louis University, Dept. of Biology Aug 1999 – May 2000  
*Research Assistant*, Laboratory of Robert I. Bolla, Ph.D., chair, Dept. of Biology  
Senior Thesis Title: *The Role of the CF-9 Gene Cluster in the Resistance of Soybeans to Infection by the Soybean Cyst Nematode.*
- Archer Daniels Midland, Co.; Decatur, IL May 1998 – Jan 2000  
*Research Assistant*, Division of Molecular Genetics  
James R. Randall Research Center, Dept. of Fermentation Research  
Junior Thesis Title: *Maximizing the Efficiency of Electrotransformation of Corynebacterium glutamicum*

## Courses Taught

### At John Jay College:

1. Hon401: Honors Senior Capstone Seminar (honors thesis course)
2. Bio205: Eukaryotic Cell Biology (developed this course)
3. Bio355: Human Physiology (developed this course)
4. Isp265: Evolution and its Impact (developed this course)
5. Gen255/Bio255: The Biology of Gender and Sexuality (developed this course)
6. BICM-85000: Functions of Nucleic Acids (Invited lectures, Biochemistry Ph.D. program at C.U.N.Y.)
7. Nsc107: Introduction to Science & Society (developed Spanish version of this course)

8. BMSC-GA-4431: Fundamentals of Teaching (Invited Lectures, NYU School of Medicine)
9. Fos402: Forensic Science Research Internship
10. Bio101: Modern Biology IA, Lecture (taught first launch)
11. Bio102: Modern Biology IB, Lecture and Laboratory Sections (taught first launch)
12. Bio103: Modern Biology I, Lecture and Laboratory Sections
13. Bio104: Modern Biology II, Lecture and Laboratory Section

#### At the University of Lincoln (U.K.):

14. Forensic DNA Analysis April 2013, April 2014, June 2015

#### In previous teaching positions:

15. *Instructor*, MCAT Biology Section; The Princeton Review, Saint Louis, MO May 2001 – April 2004
16. *Instructor*, “Drugs We Use and Abuse.” S.L.U., Dept. of Pharm. & Phys. Sciences Aug 2002 – Dec 2003
17. *Student Coordinator*, “Techniques in Biomedical Science.” Saint Louis Univ. July 2000 – Dec 2000
18. *Teaching Assistant*, Saint Louis University, General Biology Laboratory I and II Aug-May 1999
19. *Teaching Assistant*, Saint Louis University, College Physics Laboratory I and II Aug-May 2000
20. *Teaching Assistant*, Saint Louis University, Human Physiology Laboratory Jan-May 2000

### Peer Review Experience

1. Editorial boards: *Journal of Phylogenetics and Evolutionary Biology* (2012-present);  
*International Journal of Forensic Science & Criminal Behaviour* (2017-present)
2. Panelist, Biology and Earth Science review panel, *PSC-CUNY Research Awards Program*, (2011-2015)
3. Chair (liaison), Biochem. & Molec. Bio. review panel, *PSC-CUNY Research Awards Program* (2007-2010).
4. Invited Panelist, *Teaching the Process of Science*, Fund for the Improvement of Postsecondary Education (FIPSE, U.S. Department of Education). New York, NY, January 2009.
5. Invited textbook reviewer for selected chapters/modules:
  - Mason, et al., *Biology*, 11<sup>th</sup> ed. © McGraw-Hill (2015)
  - *Nurses Need Physiology Case Studies*. © Pearson PLC (2013)
  - Siverthorn, D. *Human Physiology: An Integrated Approach*, 6<sup>th</sup> ed., © Pearson PLC (2013)
  - Mastering™ Anatomy and Physiology, Pearson PLC (2012)
  - Sadava, Purves, et al., *Life: The Science of Biology*, 9<sup>th</sup>, 10<sup>th</sup> ed., © WH Freeman (2009, 2011)
  - *Biology: How Life Works*. (in development, W.H. Freeman Publishers) (2009)
6. Invited *Ad-hoc* referee for the following journals:  
*PLoS ONE* (2017); *Insects* (2017); *Evolution and Human Behavior* (2016); *New Biotechnology* (2012);  
*CBE: Life Sciences Education* (2010, 2011, 2016); *Neoplasia* (2009); *Molecular Cancer Research* (2008);  
*American Journal of Physiology: Regulatory, Integrative and Comparative Physiology* (2008); *Journal of Cell Communication and Signaling* (2008); The Visionlearning Project (2007, 2008) *Trends in Endocrinology and Metabolism* (2006)
7. Co-referee (with either Brian Dynlacht or Joseph Baldassare) for primary research manuscripts in *Cancer Cell*, *Cancer Research*, *Molecular and Cellular Biology*, *Journal of Biological Chemistry*, *Experimental Cell Research*, and *Oncogene*. (2002-2006).

### Students Mentored

#### Graduate Students

1. Tushar Srivastava. International Masters of Forensic Science, August 2016 (Erasmus Mundus Prog., EU)  
Thesis title, *DNA Barcoding as a Forensic Tool for the Identification of Flowering Plants*
2. Bidgit Waithaka, International Masters of Forensic Science, August 2015 (Erasmus Mundus Program, EU)  
Thesis title, *Detection of Species-discriminating DNA Sequences from Household Plants*  
Subsequent position, Ph.D. program in Developmental Biology, Max Planck Institute

3. Tetyana Fonarova, Masters of Science, Forensic Science, August **2014**  
Thesis title, *The Effect of Zinc and other Divalent Cations on the Detection of Tetrahydrocannabinol in Urine Samples by Enzyme-Linked Immunosorbent Assay screening*  
Subsequent position, medical scientist, Toxicology Screening Laboratory, NYU Medical Center
4. Abhishek Venkatratnam, Masters of Science, Forensic Science, May **2011**  
Thesis title, *Zinc Is an Effective Adulterant of Urine and Can Be Used to Mask the Presence of Illicit Drugs in Routine Drug Testing*  
Subsequent position, Ph.D. program in Environmental Science, University of North Carolina
5. Kathleen Grimley, Masters of Science, Forensic Science, May **2009**  
Thesis title, *Validation of the iPrep™ for Forensic Use*  
Subsequent position, Criminalist, Federal Bureau of Investigation, U.S. Department of Justice

#### Undergraduate Students

6. Zenab Khan, Bachelor of Science, Cell and Molecular Biology, May **2017**  
Senior thesis title, *Generating a Systematic Model to Approximate PMI by Examination of Taxonomic Differences Over Time in the Human Skin Microbiome of Decomposing Human Bodies*
7. Julia Kakhnovich, Bachelor of Science, Forensic Science, May **2017**  
Senior thesis title, *TrnL-trnF Gene Sequences as a Tool for the Identification of Plant Residue in Forensic Investigations*  
\*\*Winner, best poster award: 2017 PRISM Undergraduate Research Symposium, John Jay College
8. Donovan Trinidad, Bachelor of Science, Cell and Molecular Biology, May **2017**  
Senior thesis title, *The Necrobiome and its Use in Determining Postmortem Interval*  
\*\*honorable mention, U. Penn Honors Diversity (PHD) Symposium, Oct 2016  
Subsequent position, Ph.D. program, Immunology & Microbial Pathogenesis, U.C.S.F
9. Michael Wu, Bachelor of Science, Forensic Science, May **2016**  
Senior thesis title, *The Genetic Characterization of Common Household Flower Species...*
10. James Parziale, Bachelor of Science, Forensic Science, May **2015**  
(Senior thesis completed in an off-campus internship)  
Subsequent position, Ph.D. program, Pharmacology, Weill Cornell Medical School
11. Stephania Guzman, Bachelor of Science, Forensic Science, May **2015**  
Senior thesis title, *Exploring the Surface Microbiome of Decomposing Human Bodies*  
\*\*Winner, best 2015 senior capstone project, Honors program, John Jay College  
Subsequent position, Ph.D. Program in Molecular Biosciences, Rutgers University
12. Anna Lerer, Bachelor of Science, Forensic Science, May **2015**  
Senior thesis title, *Relationship between Zinc and Copper in the Excretion and Detection of THC*
13. Derek Sokolowski, Bachelor of Science, Forensic Science, May **2015**  
Senior thesis title, *Using Nuclear and Chloroplast rDNA genes to Identify Trace Plant Residue*  
\*\*Winner, best poster award: 2015 Undergraduate Research Symposium, John Jay College  
\*\*Winner, best 2015 senior capstone project (sciences section), Honors program, John Jay College  
Subsequent position, Masters Program in Biology, Hunter College
14. Andre Rozado, Bachelor of Science, Forensic Science, May **2013**  
Senior thesis title, *Transactivation of the MZF1 gene by RXR-RAR complexes in hematopoietic cells*  
Subsequent position, Forensic Toxicologist, Sterling Healthcare Services
15. Robert Connolly, Bachelor of Science, Economics, non-degree student taking courses in Forensic Science  
Project title, *Regulation of the CCN3 gene by MZF-1 in hematopoietic cells*  
Subsequent position, D.O. program, New York College of Osteopathic Medicine

16. Andrea Lopez, Bachelor of Science, Forensic Science, May **2013**  
Senior thesis title, *Vitamin D-induced Differentiation of HS-5 stromal fibroblasts*
17. Tamykah Anthony, Bachelor of Science, Forensic Science, May **2013**  
Senior thesis title, *Exploring the Mechanism of Zinc's Interference with Urine ELISA Tests for Drugs*  
\*\*Winner, presentation award, 2012 ABRCMS conference  
Subsequent position, Research Assistant, Columbia University School of Medicine
18. Szilvia Tobak, Bachelor of Science, Forensic Science, May **2012**  
Senior thesis title, *MZF-1 Regulation of the CCN family of genes*  
Subsequent position, M.A. program, Adolescent Education, Urban Teacher Residency, Hunter College
19. Richard Piszczatowski, Bachelor of Science, Forensic Science, May **2011**  
Senior thesis title, *MZF-1 regulates CTGF expression in the hematopoietic compartment*  
Subsequent position, M.D./Ph.D. program, Albert Einstein School of Medicine
20. Michael Lugo, Bachelor of Science, Forensic Science, May **2011**  
Senior thesis title, *A Study of CCN2 Protein Expression Regulated by MZF-1 in Several Cell Types*  
Subsequent position, United States Marine Corps and San Diego Police Department Crime Lab
21. Casey Joe (née Jung Cho), Bachelor of Science, Forensic Science, May **2009**  
Project title, *Expression of Cell Cycle Genes Following Silencing of CCN2 by RNA Interference*  
Subsequent position, M.D. program (with Dean's scholarship), American University of the Caribbean
22. Zuleyma Peralta, Bachelor of Science, Forensic Science, May **2008**  
Senior thesis title, *Qualitative Analysis of the Purity of DNA Prepared by the iPrep™ for Forensic Use*  
Subsequent position, Ph.D. Program in Microbiology, Mount Sinai School of Medicine

#### Student Thesis Committees

1. Jennifer Teubl, Ph.D. in Systems and Computational Biomedicine, expected Aug **2017**.
2. Melissa Branker, M.S. in Forensic Science, expected May **2017**  
Thesis title, *Effects of resource and arrival order on the assemblage and fitness of blow fly species (Family: Calliphoridae): implications for PMI estimations*
3. Seon Oh, M.S. in Forensic Science, December **2011**  
Thesis title, *The Role of RTP801 in Maneb- and Mancozeb-induced Cytotoxicity*
4. Andrew Schweighardt, Ph.D. in Criminal Justice / Forensic Science, December **2011**  
Thesis title, *Pathogen Detection Using the Luminex Multi-Analyte System*
5. Marcela Velasco, M.S. in Forensic Science, May **2011**  
Thesis title, *Toxicity of Maneb and Mancozeb Pesticides Contributing to Rat Pheochromocytoma Cellular Death and the Potential Neuroprotective Effects of Polyphenols Against these Insults*
6. Connie Chiu-Yun Lu, M.S. in Forensic Science, December **2007**  
Thesis title, *Multiplex STR and Mitochondrial Testing for Paraffin Embedded Specimens of Healthy vs. Malignant Tissues as Reference Samples in Human Identification*

#### Grant Activity and Research Funding (total funding as PI or Co-PI, \$6.08M; as lead PI, \$1.65M)

1. PSC-CUNY Research Award Program, The City University of New York (Award #67672-00-45)  
*Exploring the Surface Human Microbiome and Postmortum Changes*, P.I. **Lents NH**  
Awarded, 15-Apr 2014; Active Support 01-June **2014** – 31-Dec 2015; total costs \$6,000

2. John Jay College, Office for the Advancement of Research, 2014 Seed Funding Program  
*Postmortum Changes in the Human Microbiome*, P.I., **Lents NH**  
Active Support 05-Feb **2014** – 04-Feb 2015; total costs, \$1,500
3. National Science Foundation, Scholarships in Science, Tech., Engineering, and Math. (S-STEM)  
*The John Jay Forensic Science and Computer Science Scholarship Program*, P.I. **Lents NH**  
Active Support 01-Jan **2014** – 31-Dec 2017; total costs, \$632,173
4. PSC-CUNY Research Award Program, The City University of New York (Award #65566-00-43)  
*Regulation of the NOV Gene (CCN3) in Hematopoietic Cells by MZF-1*, P.I. **Lents NH**  
Active Support, 01-July-**2012** – 30-June-2013; total award \$6,000
5. Department of Education, HSI-STEM Program, Title V Program  
*Creating Hispanic Scientists: A Model Science Articulation Program Between Hispanic-Serving Institutions*. (Award #P031C110174) Project Directors – Carpi A (*submitting author*) and **Lents NH**  
Active Support: 01-Oct-**2011** – 01-Sep-2016, Total costs, \$3,834,728
6. PSC-CUNY Research Award Program, The City University of New York (Award #64451-00-42)  
*Transcriptional Control of the CTGF Gene in the Hematopoietic Compartment*, P.I. **Lents NH**  
Active support: 01-July-**2011** – 30-June-2012; total award \$6,000
7. United States Department of Education, Minority Science and Engineering Improvement Program. (MSEIP)  
Project Directors - **Lents NH** (*submitting author*) and Carpi A  
*Program for Research Initiatives for Science Majors* (award #P120A100006)  
Active Support: 01-Oct-**2010** – 30-Sep-2014; Total costs: \$599,411
8. United States Department of Education, Title V Program, Developing Institutions  
Project Directors – Carpi A (*submitting author*) and Szur K; Senior Personnel – **Lents NH**  
*A Comprehensive Program to Promote Undergraduate Research and First-year Transition toward Increasing Persistence and Graduation Rates of Hispanic Students*. (award #P031S100038)  
Active Support: 01-Oct-**2010** – 30-Sep-2015; Total costs:\$3,200,000
9. National Science Foundation, Scholarships in Science, Tech., Engineering, and Math. (S-STEM)  
Project Directors – Puls M and **Lents NH**  
*Scholarship Program for Computer Science, Mathematics, and Forensic Science* (award #0849883)  
Active Support: 01-Apr-**2009** – 30-Mar-2013; Direct costs: \$600,000
10. U.S. Department of Education, Title V Program, College Cost Reduction and Access Act (CCRAA)  
Subcontract with Borough of Manhattan Community College (award #P031C080210)  
Sub-contract (John Jay College) Activity Directors – Carpi A, **Lents NH**, and Friedland D.  
*A Two-year/Four-year College Partnership in Science*  
Active Support: 01-Oct-**2008** – 30-Sep-2011; Total costs: \$608,815 (JJC sub-contract)
11. John Jay College Student Technology Fee; Project Director – **Lents NH**  
*Using the iClicker to Enhance Instruction in Introductory Biology*  
Awarded June **2008**; total award \$3,907.50
12. PSC-CUNY Research Award Program, The City University of New York  
*In-service* account, Biochemistry and Molecular Biology Panel Chair  
Active support 01-Sep-**2007** – 31-Aug-2010; total award \$6,000
13. The Susan G. Komen Breast Cancer Foundation  
Postdoctoral fellowship, PDF0504345, P.I. **Lents NH**  
*Regulation of the Cellular Senescence Program by RB Proteins*  
Active Support 01-May-**2005** – 30-Apr-2008; Direct costs: \$135,000

14. National Institute on Aging, National Institutes of Health  
 NRSA postdoctoral fellowship, 1F32: AG25617-01, P.I. **Lents NH**  
*The Role of RB Proteins in Cellular Senescence* (direct costs, \$131,000/ 3 years)  
 Active support 01-Nov-**2004** – 01-May-2005 (relinquished early to accept Komen award)
15. Saint Louis University Graduate School  
 Presidential Fellowship, **Lents NH**; Award: full tuition costs, fringe benefits, plus \$15,000/yr stipend  
 Active Support 01-May-**2001** – 30-June-2004 (terminated upon graduation)

### Invited Research Seminars

1. *The Necrobiome: Using the Skin Microbiome to Determine the Postmortem Interval*  
 2017 Distinguished Alumnus Lecture, Graduate Programs in Biomedical Science, Saint Louis University  
 Saint Louis, MO; 17-May **2017**.
2. *The Biological Foundations of Justice*  
 “International Talks on Forensic Science,” Instituto Superior de Ciências da Saúde; Egas Moniz  
 Lisbon, Portugal; 13-April **2017**.
3. *Using Big Data and Machine Learning to Develop a Tool for Determining the Postmortem Interval*  
 Forensic Science Seminar Series, Instituto Superior de Ciências da Saúde; Egas Moniz  
 Lisbon, Portugal; 11-April **2017**.
4. *The Biological Foundations of Justice*  
 Monthly Book Talk Series, John Jay College of Criminal Justice, CUNY  
 New York, NY; 15-Nov **2016**.
5. *A Computational Model for Using the Skin Microbiome to Determine the Postmortem Interval*  
 3<sup>rd</sup> Annual National Forensic Science Week; Office of the Chief Medical Examiner of New York City  
 New York, NY; 11-Aug **2016**.
6. *The Postmortem Human Microbiome: New Frontiers for estimating the Postmortem Interval*  
 Grand Rounds, Office of the Chief Medical Examiner  
 New York, NY; 12-May **2016**
7. *Regulation of the CCN genes by MZF-1 in the Hematopoietic Compartment*  
 Seminar Series, School of Biological Sciences, The University of Lincoln (U.K.)  
 Lincolnshire, United Kingdom; 02-Apr **2014**
8. *Divalent Cations as Adulterants in Urine Drug Testing*  
 Seminar Series, Chemistry Dept., Queensborough Community College, The City University of New York  
 New York, NY; 01-Nov **2013**
9. *The Transcription Factor MZF-1 Regulates Expression of CCN family in the Hematopoietic Compartment*  
 Natural Science Seminar Series, York College, The City University of New York  
 New York, NY; 22-Mar **2012**
10. *Visionlearning: Un Recurso Gratis para Enseñar la Ciencia que es Mejor que Usar Libros de Texto*  
**Lents NH** and Cifuentes OE  
 Semanas Internacionales (International Seminar Series), Universidad Cooperativa de Colombia  
 Bogotá, D.C., Colombia; 14-Mar **2012**.
11. *TFs and SNPs: Undergraduate Molecular Biology Research Projects Using Genome Bioinformatics*  
 Seminar series, Department of Biology, University of Portland  
 Portland, OR; 24-Jan-**2011**

12. *SNPs, Transcription Factors, and Phylogenetics: Using Genome Bioinformatics in Teaching and Research with Undergraduates*  
Seminar series, Department of Biology, California Lutheran University  
Thousand Oaks, CA; 06-Dec **2010**
13. *Control of G1-S phase Cell Cycle Progression by the Cyclins and Cyclin-dependent Kinases*  
Seminar Series, Department of Biology, City College of New York, The City University of New York  
New York, NY; 23-Feb-**2009**

## **Oral Conference Presentations**

1. *Development of a Statistical Model to Determine the Postmortem Interval (PMI) Using the Human Skin Necro-Microbiome*, 69th Annual Scientific Meeting, American Academy of Forensic Science (AAFS)  
New Orleans, LA; 15-Feb **2017**.
2. *Exploring Postmortem Changes in the Human Surface Microbiome.*  
28th Educational Conference, New Jersey Division of the International Association for Identification (IAI)  
Atlantic City, New Jersey; 26-October **2015**.
3. *Myeloid Zinc Finger-1 (MZF-1) Transcriptionally Regulates CCN2 and CCN3 in the Hematopoietic Compartment, with Important Implications for Blood and Bone Marrow Donation.*  
24th Regional Congress of the International Society of Blood Transfusion  
Kuala Lumpur, Malaysia; 03-Dec **2013**.
4. *Regulation of the CCN genes by MZF-1 in the hematopoietic compartment.* **Lents NH** and Piszczatowski R.  
\*Served as session chair\*, International Forum on Immunology; Montreal, Canada; 20-Oct **2013**.
5. *Creating Hispanic Scientists: Increasing Minority Engagement in the Sciences*, Carpi, **Lents N**, Falconer H  
Higher Education Program, Project Directors Meeting, United States Department of Education  
Washington, DC; 27-Mar **2013**.
6. *Science Education in a Complex World: Adapting to Changes in Student Use of Online Material - the Visionlearning Project*, Carpi A, Falconer H, and **Lents NH**  
18<sup>th</sup> Annual Sloan-Consortium Conference on Online Learning; Orlando, FL; 12-Oct **2012**
7. *A Better Way to Teach Science: Ditch Textbooks; Use Visionlearning and Other Free Resources*,  
**Lents NH** and Carpi A (presented by Lents NH)  
14th Annual International Conference on Education, Athens Institute for Education and Research  
Athens, Greece; 22-May **2012**
8. *Promoting Success in Science Courses by Replacing Textbooks with Free Online Content*  
**Lents NH** and Carpi A (presented by Lents NH)  
Second Annual Best Practices Showcase, Hispanic Educational Technology Services (HETS)  
San Juan, Puerto Rico; 16-Feb **2012**.
9. *Ditching Science Textbooks by Using Visionlearning and Other Free Online Resources*  
**Lents NH** and Carpi A (presented by Lents NH)  
10<sup>th</sup> CUNY Conference on Instructional Technology; New York, NY; 02-Dec **2011**
10. *A Federally-funded Free Science Education Resource with Modular Functionality, Mobile Apps, and More*  
**Lents NH** and Carpi A (presented by Lents NH)  
Lilly Conference on College and University Teaching; Traverse City, MI; 24-Sep **2011**
11. *Visionlearning: A Free E-Resource For Science Education From The Process Perspective*  
**Lents NH** and Carpi A (presented by Lents NH)  
The Clute Institute International Academic Conference; New Orleans, LA; 14-Mar **2011**



12. *Using the Internet to Enhance Science Education: Instant Messaging, Online Office hours, and Video Lectures*, **Lents NH**  
First Annual STEMtech Conference; Orlando, FL; 03-Nov **2010**.
13. *Creating Hispanic Scientists: Transformation of a technician-oriented science program through undergraduate research*, Carpi A and **Lents NH** (presented by both authors)  
13<sup>th</sup> National Conference of the Council on Undergraduate Research (CUR); Ogden, UT; 20-June **2010**
14. *Web-based Enhancements for Science Education: Voice over PowerPoint, Instant Messaging, and Visionlearning*, **Lents NH**  
First Annual Best Practices Showcase, Hispanic Educational Technology Services (HETS)  
San Juan, Puerto Rico; 15-Jan **2010**
15. *Mentoring and Undergraduate Research to Increase Retention and Success of Minority Undergraduate Scientists*, Carpi A, and **Lents NH** (presented by Lents NH)  
23<sup>rd</sup> Annual Conference of the Hispanic Association of Colleges and Universities (HACU)  
Orlando, FL; 02-Nov **2009**
16. *Simple but Powerful Internet Tools for Enhancing College Science Instruction*, **Lents NH**  
15<sup>th</sup> Annual Sloan-Consortium Conference on Online Learning; Orlando, FL; 29-Oct **2009**
17. *Visionlearning: Building an Open Online Learning Environment for Promoting the Nature and Practice of Science*, Carpi A, Egger A, **Lents NH**  
15<sup>th</sup> Annual Sloan-Consortium Conference on Online Learning; Orlando, FL; 30-Oct **2009**
18. *Teaching the Process of Science in Evolution, Phylogenetics, and Natural Selection*, **Lents NH** and Carpi A  
9<sup>th</sup> Quadrennial Conference of the National Association of Paleontology; Cincinnati, OH; 22-June **2009**
19. *Video Lectures and Online Office Hours: Teaching Biology through the Internet*, **Lents NH**  
MoodleMoot / Sloan-Consortium International Symposium on Emerging Technology for Online Learning  
San Francisco, CA; 18-June **2009**
20. *Web-based Enhancements in Science Education*, **Lents NH**  
7<sup>th</sup> CUNY Conference on Instructional Technology; New York, NY; 05-Dec-**2008**
21. *The Phosphorylation of a Nuclear-targeted CDK2 on Thr-160 Is ERK-dependent*.  
**Lents NH**, Keenan SM, Bellone CJ, and Baldassare JJ.  
Signal Transduction, Transcription, and Translation in Therapeutics  
Luxembourg, February **2002**

## **Workshops, Invited Panels, and Keynote Talks**

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1. Distinguished Alumnus Graduation Address  
Graduate Programs in Biomedical Sciences, Saint Louis University School of Medicine  
Saint Louis, MO; 18-May **2017**.
2. *The Secrets to Success in College STEM Programs: A Scientific Look*  
2017 Teptu Science Research and Entrepreneurship Competition  
New York, NY; 03-April **2017**.
3. *Landing (and Excelling at) a Faculty Position in a Primarily Undergraduate Institution*  
Fundamentals of Teaching, Postdoctoral Affairs  
Columbia University, New York, NY; 16-April **2015**, 05-April **2016**, 01-Feb **2017**.
4. *Innovations in Active Learning in the College Science Classroom*  
Short Course in Science Teaching, Tri-institutional Postdoctoral Affairs Program  
Rockefeller University, New York, NY; 22-Oct **2015**.

5. Panelist, *Careers in Teaching and Education*; “What Can You Be with a PhD?” Symposium  
New York University Medical Center, New York, NY; 03-Nov **2013**, 25-Oct **2015**
6. *Teaching Careers in Higher Education*. Science Training Enhancement Program,  
New York University, New York, NY; 29-Jan **2015**.
7. *Innovations in Teaching*; and *Showing Pedagogical Competency When Applying for an Academic Position*  
STEM Teaching Practices, combined CUNY doctoral programs in the sciences  
The Graduate Center, The City University of New York, New York, NY; 14-Aug **2013**, 30-July **2014**
8. *So You Think You Can Teach: Getting an Academic Position in an Undergraduate Department*  
New York University Medical Center, Science Education and Pedagogy Seminar Series  
New York, NY; 09-Sep **2013**; 08-Sep **2014**
9. Panelist, *Integrating Students into Your Research*  
John Jay College Faculty Development Day 2013; 27-Aug **2013**
10. *The Scholarship of Teaching and Learning: Making the Classroom a Laboratory of Learning*  
Workshop by Carpi A and **Lents NH**; John Jay College Faculty Development Day 2012  
John Jay College, New York, NY; 24-Aug **2012**
11. *The Science of Science Teaching: Implementing Innovative and Student-Centered Pedagogy*, **Lents NH**  
New York University Medical Center, Science Education and Pedagogy Seminar Series  
New York, NY; 01-Mar **2012**
12. *Engaging Undergraduates as Scholars: Developing Faculty-Student Research/Creative Projects*  
Workshop by **Lents NH** and Crossman A; John Jay College Faculty Development Day 2011  
John Jay College, New York, NY; 25-Aug **2011**
13. *Transforming a Technical Science Curriculum into a Major Research Program for Hispanic Scientists*  
Panel Discussion by Carpi A and **Lents NH**  
“Creating a Culture of Research on Campus.” Workshop sponsored by C.U.R. and C.C.A.S.  
The College of William and Mary; Williamsburg, VA; 16-Oct **2010**.
14. *Raising the bar: Instructional technology, student-centered learning, and increased time-on-task*, **Lents NH**  
Science Pedagogy Workshop, Center for the Advancement of Teaching; John Jay College, 30-Apr **2010**
15. *Technology-based Innovations in Science Pedagogy: Keep it Simple, Stupid*, **Lents NH**  
Teaching Science for the 21<sup>st</sup> Century: Strategies for Success; CUNY Graduate Center, 23-Apr **2010**
16. *Implementing and Assessing Innovation: Making the Classroom a Laboratory*. **Lents NH**  
The Center for the Advancement of Teaching, John Jay College; 10-Sep **2009**

### **Student Posters, Secondary-authored Presentations, and Other Published Abstracts**

1. Trinidad DD, **Lents NH**, Guzman S, Parziale JV, Lerer A. *Using the Human Necromicrobiome to Estimate the Postmortem Interval*. ASM/ICAAC Microbe 2016. Boston, MA. 17-June **2016**.
2. Khan Z, **Lents NH**. *Generating a Systematic Model to Approximate Time of Death by Examination of Taxonomic Differences Over Time in the Human Microbiome of Decomposing Bodies*. 6th Annual Forensic Science Student Research Exchange, Cedar Crest College, Allentown, PA. 09-April **2016**.
3. Trinidad DD, **Lents NH**. *Using the Human Necromicrobiome to Estimate the Postmortem Interval*. 6th Annual Forensic Science Student Research Exchange, Cedar Crest College, Allentown, PA. 09-April **2016**.
4. *Exploring the Postmortem Human Microbiome*.  
Trinidad, DD and **Lents NH**. (presented by Trinidad D).  
Annual Biomedical Research Conf. for Minority Students (ABRCMS), Seattle, WA; 18-Nov **2015**

5. *Zinc Reduces the Detection of THC by ELISA Urine Testing, While Copper May Cause a False-Positive Result.* Lerer A, Fonarova T, and **Lents NH**. (presented by Lerer A).  
Society of Toxicology, 54th Annual Meeting, San Diego, CA; 24-Mar **2015**
6. *DNA-Based Forensic Analysis of Plant Phylogeny Identification using Chloroplast DNA.*  
Sokolowski D and **Lents NH**. (presented by Sokolowski D).  
Annual Biomedical Research Conf. for Minority Students (ABRCMS), San Antonio, TX; 14-Nov **2014**
7. *Analysis of the Human Microbiome on Living and Decomposing Bodies.*  
Guzman S and **Lents NH**. (presented by Guzman S)  
Annual Biomedical Research Conf. for Minority Students (ABRCMS), San Antonio, TX; 13-Nov **2014**
8. *Regulation of CCN2 and CCN3 in Bone Marrow through Myloid Zinc Finger-1 and Its Medical Implication in Hematopoiesis.* Rozado A and **Lents NH**. (presented by Rozado A, undergraduate)  
Amer. Soc. of Biochem. & Mol. Bio. (ASBMB); Experimental Biology, San Diego, CA; 29-Apr **2014**.  
The FASEB Journal 28:1S, 1005.4
9. *Exploring the Mechanism of How Zinc Supplements Reduce the Detection of THC in Urine*  
Anthony T and **Lents NH**. (presented by Anthony T, undergraduate, winner - poster presentation award)  
Annual Biomedical Research Conf. for Minority Students (ABRCMS), San Jose, CA; 09-Nov **2012**
10. *MZF-1 Regulates the CTGF Gene in the Hematopoietic Compartment.*  
Piszczałowski R and **Lents NH**. (presented by Piszczałowski R, undergraduate)  
Amer. Soc. of Biochem. & Mol. Bio. (ASBMB); Experimental Biology, San Diego, CA; 25-Apr **2012**.
11. *Assessment of Online video tutorials in an undergraduate analytical chemistry course - A pilot study*  
He Y, Swenson S, **Lents N** (presented by Y He)  
Pittcon 2012; Orlando, FL; 12-Mar **2012**
12. *A Federally-funded Free Science Education Resource with Modular Functionality, Mobile Apps, and More*  
**Lents NH** and Carpi A (presented by Lents NH)  
17th Annual Sloan Consortium International Conference on Online Learning; Orlando, FL; 09-Nov **2011**
13. *MZF-1 regulates CTGF Expression in the Hematopoietic Compartment*  
Piszczałowski R, Lugo M, and **Lents NH** (presented by Piszczałowski R, undergraduate)  
Gordon Research Seminar, Cell Biology of Megakaryocytes and Platelets; Galveston, TX; 19-Mar **2011**
14. *Understanding Theories: Explicitly Teaching the Process of Science to Address Common Misconceptions,*  
Egger A, Carpi A, and **Lents NH**. (presented by Egger A)  
2010 Annual meeting of the Geological Society of America (v42, No5, p381); Denver, CO; 02-Nov **2010**
15. *Teaching to the Nature of Science Content Standards.* Carpi A and **Lents NH** (oral presentation by Carpi A)  
National Conference of the NSTA (National Science Teachers Assoc.); Philadelphia, PA; 18-mar **2010**
16. *Forensic Validation of the iPrep™ DNA Purification System.*  
Grimley K, Peralta Z, Kobilinsky L, and **Lents NH** (presented by Lents NH)  
19th International Symposium on Human Identification; Hollywood, CA; October **2008**
17. *Discovery and Characterization of a Novel DNA Damage-induced Splice Variant of Mdm2.*  
**Lents NH** and Dynlacht BD. The FASEB Journal. **2008**;22:775.2  
Amer. Soc. of Biochem. & Mol. Bio. (ASBMB); Experimental Biology, San Diego, CA; April **2008**
18. *A Novel Role for PI3-kinase: Modulation of the Anti-viral Response.* Moran JM, **Lents NH**, Baldassare JJ, Corbett JA. (presented by Moran JM) Diabetes. **2004** Jun; (53) A300.  
69<sup>th</sup> Annual Meeting of the American Diabetes Association (ADA); Orlando, FL; June **2004**

19. *Phosphorylation of pRb by CDK2-cyclin E Alone is Sufficient to Relieve pRb-mediated Repression of E2F Activity, Cyclin A Expression, and G1 progression.* **Lents NH**, Keenan SM, and Baldassare JJ.  
The Molecular and Genetic Basis of Cellular Proliferation  
Gordon Research Conference – Colby-Sawyer College, NH; July **2003**
20. *Activation of the Raf/MEK/ERK Cascade is Necessary and Sufficient for Thr-160 Phosphorylation of a Nuclear-targeted CDK2.* **Lents NH**, Keenan SM, Bellone CJ, and Baldassare JJ.  
Cancer Genetics and Tumor Suppressor Genes; Cold Spring Harbor, New York, August **2002**
21. *Phosphorylation of pRb by CDK2-cyclin E on Thr-373 alone Is sufficient to relieve pRb-mediated repression of E2F activity, cyclin A expression, and G1 progression.* **Lents NH** and Baldassare JJ.  
Cancer Genetics and Tumor Suppressor Genes; Cold Spring Harbor, New York, August **2002**
22. *Resistance to soybean cyst nematode: Genetic linkages.*  
Bolla RI, Harms R, Brown G, Maune G, **Lents NH**, Nebel P. (oral presentation by R. Bolla)  
Annual Conference of the International Society of Nematology (65(2b) 501-514.)  
University of Ghent, Belgium. May **2000**

## Peer-Reviewed Educational Modules (The Visionlearning Project)

### Modules co-authored:

1. “Y-Chromosome and Mitochondrial DNA Haplotypes: Tales of Human Ancestry.”  
*Visionlearning*. Vol Bio-5(2) **2017**.
2. “Population Genetics: An Introduction.” *Visionlearning*. Vol Bio-5(1) **2016**.
3. “Biological Proteins: An Introduction.” *Visionlearning*. Vol Bio-4(9) **2016**.
4. “Blood Biology I: Components of Blood.” *Visionlearning*. Vol Bio-4(8) **2016**.
5. “Origins of Life II: Lipids, Membranes, Protocells.” *Visionlearning*. Vol Bio-4(7) **2016**.
6. “Origins of Life I: Early Ideas and Experiments.” *Visionlearning*. Vol Bio-4(6) **2016**.
7. “Energy Metabolism II: The Generation of ATP.” *Visionlearning*. Vol Bio-4(5) **2016**.
8. “Gene Expression: An Overview.” *Visionlearning*. Vol Bio-4(4) **2015**.
9. “Energy Metabolism I: An Introduction.” *Visionlearning*. Vol Bio-4(3) **2015**.
10. “Cell Division II.” *Visionlearning*. Vol. Bio-4 (2), **2015**.
11. “Lipids: An Introduction.” *Visionlearning*. Vol. Bio-4 (1) **2014**.
12. “The Discovery and Structure of Cells.” *Visionlearning*. Vol. Bio-1 (2) 2003, revised in **2014**.
13. “Membranes I: Introduction to Biological Membranes.” *Visionlearning*. Vol. Bio-3 (7) **2014**.
14. “Photosynthesis I.” *Visionlearning*. Vol. Bio-3 (6) **2014**.
15. “Cell Division I.” *Visionlearning*. Vol. Bio-3 (5), **2013**.
16. Cellular Organelles I: Membrane-bound Organelles.” *Visionlearning*. Vol. Bio-5 (3), **2013**.

### Modules sole-authored:

17. “Membranes II: Passive and Active Transporters.” *Visionlearning* Vol. Bio-3 (8), **2014**.
18. “Classic Experiment: Meselson and Stahl and the Models of DNA Replication.”  
*Visionlearning*. Vol. Bio-5 (2), **2011**.
19. “DNA III – The Replication of DNA.” *Visionlearning* Vol. Bio-5 (1), **2009**.
20. “DNA II – The Structure of the Genetic Material.” *Visionlearning* Vol. Bio-3 (1), **2009**.
21. “DNA I – The Genetic Material.” *Visionlearning*. Vol. Bio (2), **2008**.

Many of the above modules appear in the following texts:

- Carpi A and Egger A. *Natural Science*. (6<sup>th</sup> ed.) Carpi A and Egger A. © 2013, Kendall Hunt Publishing Co.
- Carpi A, et al. *Origins: Understanding the Science of Discovery*. © 2014, Kendall Hunt Publishing Co.
- Carpi A, et al. *SCI110: Origins: From the Big Bang to Life on Earth* © 2016, Kendall Hunt Publishing Co.

## Interviews and Media Appearances

1. Quoted extensively for article in *Vice*, 04 May **2017**. *Evolution Isn't Through with You Just Yet*.  
Interviewed by Cindy Kuzma on whether humans are currently evolving and the future thereof.  
[https://tonic.vice.com/en\\_us/article/evolution-isnt-through-with-you-just-yet](https://tonic.vice.com/en_us/article/evolution-isnt-through-with-you-just-yet)

2. Paper featured in many press articles, some with interviews: Johnson, et al., "A Machine Learning..."  
Outlets: *The Statesman*, *Scientific American's* podcast, *Live Science*, *Science Daily*, *Phys.org*, *Genome Web*, *Wonder How To*, *The Economic Times*, etc. See <https://goo.gl/gm9E3x> for more.
3. *Chasing News* – FOX-My9, 01-Dec **2016**. *Finding Karina's Killer*  
Interviewed by Diana Blass in my laboratory regarding the use of familial searching of DNA databases.  
<https://www.youtube.com/watch?v=My-cxDN7be4&list=PLnZ8LE6iJseWMmmuEGN4NlLz3tpcGx6B&index=8>
4. *The Why Factor* on BBC World Service. 18-Nov **2016**. *The Family Tree*.  
Interviewed by Mike Williams on the problems and limitations of genealogy.  
<http://www.bbc.co.uk/programmes/p04fwwt0>
5. Quoted in *Science Line*, 16-Nov **2016**. *Your Spitting Image*  
Interviewed by Leslie Nemo on a new study of the oral microbiome and its use in forensics.  
<http://scienceline.org/2016/11/your-spitting-image/>
6. Quoted in the *New York Times*. 16-July **2016**. *K2's Sudden Surge Tests New York Authorities*.  
Interviewed by Eli Rosenberg about enforcement efforts related to synthetic "marijuana" cannabinoids.  
<http://www.nytimes.com/2016/07/16/nyregion/k2s-sudden-surge-tests-new-york-authorities.html>
7. *Access Hollywood* – NBC, 04-Feb **2016**. *New Forensic Test Could Be Steven Avery's Secret Weapon*  
Interviewed by Maureen Maher on the use of luminol in forensic investigations  
<http://www.accesshollywood.com/articles/exclusive-new-forensic-test-could-be-steven-averys-secret-weapon/>
8. *Chasing News* – FOX-My9, 24-Feb **2016**. *Can Your Makeup Bag Make You Sick?*  
Performed lab identification of bacterial species in makeup, pre-recorded interview in my lab  
<https://www.youtube.com/watch?v=ujazFiABDWU>
9. Quoted in *The Guardian* (UK), 11-Dec **2014**. *Mystery as cyanide kills 2<sup>nd</sup> woman at Pennsylvania hospital*.  
Interviewed by Amanda Holpuch about the mechanism and detection of cyanide poisoning.  
<http://www.theguardian.com/us-news/2014/dec/11/mystery-cyanide-kills-second-woman-pennsylvania-hospital>
10. *TechKnow* – Al-Jazeera America, 23-Feb **2014**. *Better Than CSI*  
Interview and Demonstration in my research laboratory on innovations in Forensic DNA technology  
<http://america.aljazeera.com/watch/shows/techknow/blog/2014/2/20/3-ways-forensic-technologyishelpingsolvemorecases.html>
11. *PIX11 Morning News* – Flagship *CW* affiliate, PIX11, New York, NY; 20-Jan **2014**  
Interviewed live by Sukanyan Krishnan on identification of the decomposed remains of Avante Oquendo
12. *48 hours* – *CBS News*, 22-Nov **2013**. *The Murder of Juliana Redding: A Hollywood Whodunit*  
Interviewed by Maureen Maher (in my research laboratory) on the forensic investigation of DNA transfer  
<http://www.cbsnews.com/news/the-murder-of-juliana-redding-a-hollywood-whodunit/>
13. *Biz Asia America* *Chinese Central Television (CCTV)*, 08-Nov **2013**. *Yasser Arafat autopsy results*  
Interviewed live by Mike Walter regarding the death investigation of Yasser Arafat.  
<http://www.youtube.com/watch?v=eXnSsWzHgs&feature=youtu.be&noredirect=1>
14. Article by the *Associated Press*. 07-Nov **2013**. *Possible Evidence of Arafat Poisoning Is Reported*.  
Interviewed by Malcom Ritter about the evidence of Polonium-210 poisoning of President Yasser Arafat.  
Distributed through the AP. Example: <http://www.npr.org/templates/story/story.php?storyId=243492586>
15. *PIX11 Morning News* – Flagship *CW* affiliate, PIX11, New York, NY; 19-Aug **2013**  
Interviewed live by Kirstin Cole and Frances Rivera on the issue of biometric technology  
[http://video.pix11.com/Experts-say-security-measures-could-incorporate-iris-finger-scanning-in-future-25045306?freewheel=91044&sitection=wpix\\_pix11morningnews&VID=25045306](http://video.pix11.com/Experts-say-security-measures-could-incorporate-iris-finger-scanning-in-future-25045306?freewheel=91044&sitection=wpix_pix11morningnews&VID=25045306)
16. *The Today Show* – *NBC*, 30-May **2013**; *Study: Handbags carry more bacteria than some toilets*  
Performed laboratory identification of bacterial species, pre-recorded interview in my laboratory, and live interview by *The Today Show* hosts: M Lauer, A Roker, N Morales, S Guthrie  
<http://www.today.com/health/your-gross-handbag-germier-toilet-1C10120964>

17. *Spoonfull of Medicine* – from Nature Medicine, 24-April **2012**  
Interviewed by Rebecca Hersher on legislation to ban synthetic cannabinoids  
<http://blogs.nature.com/spoonful/2012/04/is-chuck-schumer-going-to-blunt-us-cannabinoid-research.html>
18. *The Brian Lehrer Show* – WNYC (nationally syndicated on NPR), 23-April **2012**.  
Interviewed by Brian Lehrer on the topic of the pharmacology and toxicology of synthetic marijuana  
<http://www.wnyc.org/shows/bl/2012/apr/23/albany-considers-synthetic-marijuana-bill/>
19. *Primer Impacto* – Univisión (all national and international affiliates), 20-May **2011**.  
Interviewed by Natalia Cruz on the topic of forensic identification of skeletal remains  
<http://noticias.univision.com/primer-impacto/videos/video/2011-05-19/asesino-en-serie-en-nueva>

## The Human Evolution Blog and Related Public Scholarship

### The Human Evolution Blog and NathanLents.com:

- Authored 60 original posts since August 2014; Page views: >6k/month, lifetime total >140k (May 2017)
- Articles reprinted by: [gritwire.net](http://gritwire.net) (tech blog), [nautil.us](http://nautil.us) (nautilus magazine), and the following online newsletters: *The Daily Anthropologist*; *Druebey2games*; *Archaeological Sources*; *Richard III News*; *Vocabulary Daily*; *The Microbiology Daily*; *Dad on a Mission*; *Scientific Life*; *Genes, Genetics, Genomes*; *Biology is Cool*
- Cited by Nautilus Magazine, Canyon News, Monster Talk (Podcast), Stunt FM, Daily Maverick, PLOS Blog, Science Book a Day
- Listed #56 on Feedspot: “Top 100 Philosophy Blogs”

### Psychology Today. Column Title: “Beastly Behavior: How Evolution Shaped Our Minds and Bodies”

- 16 articles contributed to date
- >200k total page views (as of May 2017)
- Blog posts featured in online versions of *USA Today*, *The Daily Mirror*, *The Daily Mail*, *The Telegraph*, *New York Magazine*, *New York Post*, *IFL Science*, *People Magazine*, mentioned on *Live with Kelly* (19 April 2017)

### Additional:

- [Clapway.com](http://Clapway.com): 5 articles contributed. (Now inactive)
- [StageBuddy](http://StageBuddy.com): Staff critic for family theatre, 6 reviews submitted
- [Gender and Society](http://GenderandSociety.com): “Mountain Gorillas Teach a Lesson about Gendered Behavior.” 24-June **2016**.
- [Psych2go](http://Psych2go.com): Interviewed twice for articles
- [HeadSpace](http://HeadSpace.com): Interviewed for article

### Magazine Articles

1. “What Biology Can Teach Us about Crime and Justice.” **Lents NH** and Kazemian L. To appear in fall 2017 issue of Skeptic, also appearing in eSkeptic.
2. “Big News on *Homo naledi*: More Fossils and a Surprising Young Age.” Published in eSkeptic on 10 May 2017. To be published in Summer **2017** issue of Skeptic.
3. “Paleoanthropology Wars: The Discovery of *Homo naledi* Has Generated Considerable Controversy in This Scientific Discipline.” Skeptic vol 21(2) Spring/summer **2016**. pp8-11.
4. “*Homo naledi* and the Problems with the Homo Genus.” The Wildernist. (Univ. of North Carolina) Issue #3, October **2015**.

## Full-length Books

1. **Lents NH**. Human Errors: A Panorama of Our Defects, from Broken Genes to Pointless Bones. Under contract, Houghton Mifflin Harcourt, **2018**. Represented by the Marly Rusoff Literary Agency. Additional deals signed for the following markets to date: Taiwan, China, Korea, UK, Norway.

2. **Lents NH.** *Not So Different: Finding "Human Nature" in Animals.* Columbia University Press. May **2016**.
  - Reviews: Publishers Weekly (★), Psychology Today, *Quarterly Review of Biology*, Greenspirit Book Reviews, Fresh Fiction Reviews, Decatur Herald & Review, *The European Legacy*, Also - Reviewed (negatively) by Ken Ham on his "Answers in Genesis" blog.
  - Book talks: Book Culture (NYC), Boston Public Library, Oakland Public Library, San Francisco Public Library, Santa Barbara Zoo, Los Angeles Public Library, New York Public Library, New York Atheists, Boston Ethical Society, Pint of Science, Jewish Association Serving the Aging, John Jay College Author Series, Macaulay Honors College
  - Mentioned in: Chronicle of Higher Education: *Animal Minds*; *The Wire: Infinite in All Directions: The Five Fronts of Consciousness, an Old Frontier*

## **Research and Review Articles, Book Chapters**

(h-index = 14; Erdős number = 4)

1. Srivastava T, Wu M, Kakhnovich J, Waithaka B, and **Lents NH.** *A Three-locus, PCR-based Method for Forensic Identification of Plant Material.* Submitted, Aug **2017.** Journal of Forensic Sciences.
2. Carpi A, Ronan DM, Falconer HM, and **Lents NH.** *Cultivating Minority Scientists: Undergraduate Research Increases Self-Efficacy and Career Ambitions for Underrepresented Students in STEM.* Journal of Research in Science Teaching. Feb **2017.** v54:2;169-194.
3. Johnson HT, Trinidad DD, Guzman S, Parziale JV, DeBruyn JM, and **Lents NH.** *A Machine Learning Approach for Using the Postmortem Skin Microbiome to Estimate the Postmortem Interval.* PLoS one 23-Dec **2016.** v11.12: e0167370.
4. Piszczatowski RT and **Lents NH.** *Regulation of the CCN Genes by Vitamin D: A Possible Adjuvant Therapy in the Treatment of Cancer and Fibrosis.* (Invited Review) Cellular Signaling. July **2016.** 28(10):1604-13.
5. **Lents NH** and Baldassare JJ. *Cyclins and Cyclin-dependent Kinases.* In: Ralph A. Bradshaw and Philip D. Stahl (Editors-in-Chief), Encyclopedia of Cell Biology. Vol. 3 © **2015,** Elsevier Academic Press, Oxford, U.K.
6. Piszczatowski RT, Rafferty BJ, Rozado A, Parziale JV, and **Lents NH.** *Myeloid Zinc Finger 1 Regulates Expression of the CCN2/CTGF and CCN3/NOV Genes in the Hematopoietic Compartment.* Journal of Cellular Physiology. Nov **2015.** v230(11);2634-39.
7. Piszczatowski RT, Rafferty BJ, Rozado A, Tobak S, and **Lents NH.** *The Glyceraldehyde 3-Phosphate Dehydrogenase Gene (GAPDH) is Regulated by Myeloid Zinc Finger 1 (MZF-1) and Is Induced by Calcitriol.* Biochemical and Biophysical Research Communications. 15 Aug **2014;** v451(1);137-41.
8. **Lents NH.** *Teaching All Things Evolution.* Journal of Phylogenetics and Evolutionary Biology. April **2013.** v1:e101.
9. Carpi A and **Lents NH.** *Research by Undergraduates Helps Underfinanced Colleges as Well as Students.* Invited Op-Ed, 28 October **2013.** The Chronicle of Higher Education.
10. **Lents NH.** *Teaching the Biology of Gender, Sex, and Sexuality Leads to a Marked Increase in Acceptance of the Theory of Evolution by Natural Selection.* Journal of Phylogenetics and Evolutionary Biology. May **2013,** 1(105):2.
11. Carpi A, Ronan DM, Falconer HM, Boyd HH, and **Lents NH.** *Development and implementation of targeted STEM retention strategies at a Hispanic-serving institution.* Journal of Hispanic Higher Education. July **2013;** 12(3);280-99.
12. **Lents NH.** *Current and Future Uses of Microarrays in Forensic Investigations.* Appears in Forensic Chemistry Handbook. Ed. Lawrence Kobilinsky. © **2012** Wiley and Sons Publishers, Hoboken, NJ.

13. He Y, Swenson S, and **Lents NH**. *Online Video Tutorials Increase Learning of Difficult Concepts in an Advanced Undergraduate Analytical Chemistry Course*. Journal of Chemical Education. July **2012**. v89(9). 1089-1216.
14. Venkatratnam A and **Lents NH**. *Zinc Reduces the Detection of Cocaine, Methamphetamine, and THC by ELISA Urine Testing*. Journal of Analytical Toxicology. July **2011**; 35(6):p333-40.
15. Shah M, Mavers M, Bree A, Fosko S and **Lents NH**. *Quality of Life and Depression Assessment in Nevroid Basal Cell Carcinoma Syndrome*. International Journal of Dermatology. Mar **2011**; 50(3):p268-76.
16. **Lents NH**, Cifuentes OE, and Carpi A. *Teaching the Process of Molecular Phylogeny and Systematics: A Multi-part Inquiry-based Exercise*. CBE: Life Sciences Education. Dec **2010**; 9(4):p513-23.
17. Grimley K, Peralta Z, Kobilinsky L, and **Lents NH**. *Analysis of the Suitability of the iPrep DNA Purification Instrument for Routine Forensic Applications*. Journal of Forensic Identification. Nov **2010**; 60(2)p656-681.
18. **Lents NH** and Cifuentes OE. *Increasing Student-Teacher Interactions at an Urban Commuter Campus through Instant Messaging and Online Office Hours*. Electronic Journal of Science Education. **2010**; v14:1.
19. Freudenburg-de Graaf W, Moran JM, **Lents NH**, Baldassare JJ, Buller RML, and Corbett JA. *Phosphatidylinositol 3-kinase Regulates Macrophage Responses to Double-Stranded RNA and Encephalomyocarditis Virus*. Journal of Innate Immunity. Dec **2009**; 2(1):p77-86.
20. **Lents NH** and Cifuentes OE. *Web-based Learning Enhancements: The Use of Video Lectures through Voice Over PowerPoint in a Majors-level Biology Course*. Journal of College Science Teaching. Nov **2009**; 39(2)p18-26.
21. Shah MR, Kreidt C, **Lents NH**, Hoyer KM, Jamaluddin N, Klein C, and Baldassare JJ. *Direct Intra-tumoral Injection of Zinc-Acetate Halts Tumor Growth in a Xenograft Model of Prostate Cancer*. Journal of Experimental and Clinical Cancer Research. June **2009**; 28:84.
22. **Lents NH**, Irintcheva V, Goel R, Wheeler LL, Baldassare JJ. *The Rapid Activation of N-Ras by  $\alpha$ -thrombin Is Mediated by the specific G-protein  $G_{\alpha_{i2}\beta_{1\gamma_5}}$  and Occurs in Lipid Rafts*. Cellular Signaling. **2009**; v21(6):1007-14.
23. Gorges LL, **Lents NH**, and Baldassare JJ. *The Extreme C-terminus of the Retinoblastoma Tumor Suppressor Protein (pRb) is Required for Phosphorylation on Threonine-373 and Activation of E2F*. American Journal of Physiology: Cell Physiology. Nov **2008**; 295(5):1151-60.
24. **Lents NH**. *Any Way You Splice It: Mdm2 at the Crossroads of Tumor Surveillance*. Chinese Journal of Cancer. Sep **2008**; 27(9)993-7. (also appears translated into Chinese)
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