



Nathan H. Lents, Ph.D.

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John Jay College of Criminal Justice
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John Jay College, The City University of New York (CUNY)

Sep 2006 – present

Professor of Biology, w/ tenure

Sep 2016 – present

Assistant Professor, 2006-2011; Associate Professor, 2011-2016

Director, Biology minor, Cell & Molecular Biology major Jan 2014 – Jan 2016; Jan 2022 - present

Past Positions:

Director, Honors Program & Macaulay Honors College Program

Jan 2016 – Aug 2019

Host and Executive Producer, This World of Humans Podcast

May 2017 – Aug 2019

Director, Office of Undergraduate Research (O.U.R.)

Sep 2010 – Aug 2013

Deputy Chair, Department of Sciences

Jan 2010 – Aug 2014

Current Ad-hoc Positions

Fellow, Committee for Skeptical Inquiry, Amherst, NY

Nov 2021 – present

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

New York University Medical Center

Postdoctoral Fellowship, Cancer Genomics and Computational Biology

2004-2006

Saint Louis University, School of Medicine

Doctor of Philosophy, with distinction, Pharmacological and Physiological Sciences

June 2004

Saint Louis University

Bachelor of Science, Biology (Molecular) *Summa Cum Laude*

Dec 1999

Languages

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

Awards

- 2018 Outstanding Scholarly Mentoring Award, John Jay College
- 2017 Distinguished Alumnus, Pre-commencement Address, Graduate Prog. in Biomedical Sciences (S.L.U.)
- 2011 Research Excellence Award, John Jay College
- 2009 Distinguished Teaching Award, John Jay College
- 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

- Elected member, Appeals Committee, Faculty Personnel Committee (Rank/Tenure). (**2014**-present)
- Chair, Committee on Honorary Degrees, John Jay College (member, **2011**-present; chair **2015**-present)
- Member, Research Advisory Council, John Jay College (**2010**-2012 and 2014-present)

Selected Past Committee and Administrative Assignments

- Director, NSF-funded Scholarship Program for Computer Science and Forensic Science (2008-**2021**)
- Director, Honors Program and Macaulay Honors College Program, John Jay College (2016-**2019**)
- Member, Advisory Board for the Office of Student Research and Creativity (**2017-2019**)
- Search Committee (elected), Provost and Chief Academic Officer, John Jay College (**2018**)
- Select Faculty Panel (elected), Presidential Search for John Jay College (**2017**)
- Mentor, Junior Faculty Mentoring Program, John Jay College. (**2018-2020**)
- Mentor, Grant Writing Faculty Development Workshops (**2016-2018**)
- Founding Director, Cell and Molecular Biology major, John Jay College (**2015**)
- Chancellor's Task Force on Experiential Learning, CUNY (**2015-2016**)
- 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

- New York University Medical Center June 2004 – Aug 2006
Susan G. Komen 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. Bio315: Genetics (both in person and online)
2. Mhc225: Science and Technology (taught as a seminar in human evolution)

3. Hon401: Honors Senior Capstone Seminar (honors thesis course)
4. Bio205: Eukaryotic Cell Biology (developed this course)
5. Bio355: Human Physiology (developed this course)
6. Isp265: Evolution and its Impact (developed this course)
7. Gen255/Bio255: The Biology of Gender and Sexuality (developed this course)
8. BICM-85000: Functions of Nucleic Acids (Invited lectures, Biochemistry Ph.D. program at C.U.N.Y.)
9. Nsc107: Introduction to Science & Society (developed Spanish version of this course)
10. BMSC-GA-4431: Fundamentals of Teaching (Invited Lectures, NYU School of Medicine)
11. Fos402: Forensic Science Research Internship
12. Bio101: Modern Biology IA, Lecture (taught first launch)
13. Bio102: Modern Biology IB, Lecture and Laboratory Sections (taught first launch)
14. Bio103: Modern Biology I, Lecture and Laboratory Sections
15. Bio104: Modern Biology II, Lecture and Laboratory Section

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

16. Forensic DNA Analysis Short course, taught 4x annually 2013-2016

At the Instituto Superior de Ciências da Saúde Egas Moniz (Portugal):

17. Forensic DNA Analysis April 2017

In previous teaching positions:

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|---|-----------------------|
| 18. <i>Instructor</i> , MCAT Biology Section; The Princeton Review, Saint Louis, MO | May 2001 – April 2004 |
| 19. <i>Instructor</i> , “Drugs We Use and Abuse.” S.L.U., Dept. of Pharm. & Phys. Sciences | Aug 2002 – Dec 2003 |
| 20. <i>Student Coordinator</i> , “Techniques in Biomedical Science.” Saint Louis Univ. | July 2000 – Dec 2000 |
| 21. <i>Teaching Assistant</i> , Saint Louis University, General Biology Laboratory I and II | Aug-May 1999 |
| 22. <i>Teaching Assistant</i> , Saint Louis University, College Physics Laboratory I and II | Aug-May 2000 |
| 23. <i>Teaching Assistant</i> , Saint Louis University, Human Physiology Laboratory | Jan-May 2000 |

Peer Review Experience

1. Invited *ad-hoc* referee for the following journals:
Journal of Cognitive Historiography (2019); *Journal of Forensic Sciences* (2019); *Genes* (2018); *PLoS ONE* (2017); *Insects* (2017, 2019); *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)
2. Invited referee for book proposals and manuscripts, Columbia University Press (2018, 2020, 2021(x2), 2022); Oxford University Press (2022)
3. Chair, Genetics and Genomics Planning Subcommittee, Annual Conference of the American Association of Biological Anthropology (AABA, formerly AAPA), 2021, 2022.
4. Panelist, Biology and Earth Science review panel, *PSC-CUNY Research Awards Program*, (2011-2015)
5. Invited textbook reviewer for selected chapters/modules:
 1. *Molecular Phylogenetics: Building evolutionary trees using DNA sequence Data*; Cambridge University Press. (2018)
 2. Mason, et al., *Biology*, 11th ed. © McGraw-Hill (2015)
 3. *Nurses Need Physiology: Case Studies*. © Pearson PLC (2013)
 4. Siverthorn, D. *Human Physiology: An Integrated Approach*, 6th ed., © Pearson PLC (2013)
 5. Mastering™ Anatomy and Physiology, Pearson PLC (2012)
 6. Sadava, Purves, et al., *Life: The Science of Biology*, 9th, 10th ed., © WH Freeman (2009, 2011)
 7. *Biology: How Life Works*. (in development, W.H. Freeman Publishers) (2009)
6. Chair, Biochemistry and Mol. Biology review panel, *PSC-CUNY Research Awards Program* (2007-2010).

7. Invited Panelist, *Teaching the Process of Science*, Fund for the Improvement of Postsecondary Education (U.S. Department of Education). New York, NY, January **2009**.
8. Co-referee (with either Brian Dynlacht or Joseph Baldassare) for many 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. Jessica Blandino. Masters of Science, Forensic Science, Aug **2020**
Thesis title, *The miR-3648 gene family: A human-unique microRNA with potential forensic applications*
2. 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*
Subsequent Position, Environmental Programme, the United Nations; Geneva, Switzerland
3. Bridgit 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
4. 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
5. 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
6. 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

7. Current mentees: William Higgins, Kelliana Seeraj, Gabriel Gonzalez
8. José Galván, Bachelor of Science, Cell and Molecular Biology, May **2022**
Senior thesis title, *Recent Evolution of miRNA Genes in Ancient and Modern Humans*
Subsequent position, Ph.D. program, Computational Biology, Weill Cornell School of Medicine
9. Kaitlyn Abshire, Bachelor of Science, Cell and Molecular Biology, May **2022**
Senior thesis title, *Geographic Isolation of Pulmonate Gastropods in the Urban Landscapes of...*
Subsequent position, Ph.D. program, Integrative Biology, University of Wisconsin - Madison
10. Isaac Paredes, Bachelor of Science, Cell and Molecular Biology, May **2021**
Senior thesis title, *An Evolution and Bioinformatics Exploration of Vitamin B12 Absorption in Humans*
Subsequent position, Ph.D. program, Integrative Biology, Michigan State University
11. Samantha Vee, Bachelor of Science, Cell and Molecular Biology, May **2020**
Senior thesis title, *Evolution and Expression of miR-3928 in Humans and Other Apes*
Subsequently, M.S., Ecology and Evolution, Stony Brook University
Currently, Ph.D. program in Biological Anthropology, Boston University
12. Beatriz Mercado, Bachelor of Science, Cell and Molecular Biology, Dec **2019**
Senior thesis title, *Discovery and Classification of a Human Unique microRNA*
Subsequent position, Ph.D. Program, Dartmouth University

13. Zenab Khan, Bachelor of Science, Cell and Molecular Biology, May **2017**
 Senior thesis title, *Generating a Systematic Model to Approximate PMI by Examination...*
 Subsequent position, Pharm. D. program, Long Island University

14. 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...*
 **Winner, best poster award: 2017 PRISM Undergraduate Research Symposium, John Jay College
 Subsequent position, criminalist, Office of the Chief Medical Examiner, New York City

15. 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, UCSF

16. Michael Wu, Bachelor of Science, Forensic Science, May **2016**
 Senior thesis title, *The Genetic Characterization of Common Household Flower Species...*
 Subsequent position, criminalist, Office of the Chief Medical Examiner, New York City

17. James Parziale, Bachelor of Science, Forensic Science, May **2015**
 Subsequent position, Ph.D. program, Pharmacology, Weill Cornell Medical School

18. 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

19. Anna Lerer, Bachelor of Science, Forensic Science, May **2015**
 Senior thesis title, *Relationship between Zinc and Copper in the Excretion and Detection of THC*

20. 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, City College

21. 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

22. 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*
 Subsequently earned D.O., New York College of Osteopathic Medicine

23. Andrea Lopez, Bachelor of Science, Forensic Science, May **2013**
 Senior thesis title, *Vitamin D-induced Differentiation of HS-5 stromal fibroblasts*

24. 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, Founder and President, Xanthis Café

25. 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

26. Richard Piszczatowski, Bachelor of Science, Forensic Science, May **2011**
Senior thesis title, *MZF-1 regulates CTGF expression in the hematopoietic compartment*
**Winner, 2011 PRISM Outstanding Undergraduate Researcher, John Jay College
Subsequent position, M.D./Ph.D. program, Albert Einstein School of Medicine
27. 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
28. Lauren Weidner, Bachelor of Science, Forensic Science, May **2010**
Subsequently earned Ph.D. in Entomology, Rutgers University (completed 2015)
Currently, Assistant Professor, University of Arizona
29. 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*
Subsequently earned M.D. (with Dean's scholarship), American University of the Caribbean
30. 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*
Subsequently earned Ph.D. in Microbiology, Mount Sinai School of Medicine
Currently, Scientist, 10x Genomics, Oakland, CA

Student Thesis Committees

1. Jennifer Teubl, Ph.D. in Systems and Computational Biomedicine, NYU School of Medicine, Oct **2017**.
Thesis title, *Taxonomic Identification of Vertebrates Using Collagen Sequences*
2. Melissa Branker, M.S. in Forensic Science, John Jay College, 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, John Jay College, December **2011**
Thesis title, *The Role of RTP801 in Maneb- and Mancozeb-induced Cytotoxicity*
4. Andrew Schweighardt, Ph.D. in Forensic Science, Graduate Center of CUNY, Dec **2011**
Thesis title, *Pathogen Detection Using the Luminex Multi-Analyte System*
5. Marcela Velasco, M.S. in Forensic Science, John Jay College, 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, John Jay College, 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 (Application # TRADB-52-259)
Geographic Isolation of Gastropods in the Urban Landscapes of New York City, P.I. **Lents NH**
Awarded, 16-Apr **2021**; Active Support 01-July 2021 – 30-June 2022; total costs \$6,000
2. PSC-CUNY Research Award Program, The City University of New York (Application # TRADB-51-502)
A New Mechanism for the Evolution of Human-Specific miRNA Genes, P.I. **Lents NH**
Awarded, 16-Apr **2020**; Active Support 01-July 2020 – 30-June 2021; total costs \$6,000
3. PSC-CUNY Research Award Program, The City University of New York (Award #61175-00-49)
This World of Humans: A New Science Podcast with Teaching Guides, P.I. **Lents NH**
Awarded, 13-Apr **2018**; Active Support 01-July 2018 – 31-Dec 2019; total costs \$3,500

4. JJC Office for the Advancement of Research, and CUNY Research Office, 2017 Seed Funding Award
Podcast: This World of Humans, P.I., **Lents NH**; May 2017 – Dec **2017**; total costs, \$4,000
5. 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
6. John Jay College, Office for the Advancement of Research, 2014 Seed Funding Program
Postmortum Changes in the Human Microbiome, P.I., **Lents NH**; Feb **2014** - Feb 2015; \$1,500
7. 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 2010; total costs, \$632,173
8. 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
9. 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
10. 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
11. 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
12. 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
13. 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
14. 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)
15. 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
16. 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

17. 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
18. 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)
19. 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 Postmortem Human Microbiome: New Frontiers for Estimating the Postmortem Interval*
Forensic Medical Sciences, Queen Mary University of London, London, UK; 11-June **2019**.
2. *Using Machine-Learning Techniques and the Postmortem Human Skin Microbiome to Determine PMI.*
Forensic Science Programme Seminar Series, De Monfort University, Leicester, UK; 09-Oct **2018**.
3. *Exploring the Postmortem Human Skin Microbiome Using Machine-Learning Techniques*
Dept. of Analytical, Environmental, and Forensic Sciences, King's College London; 09-March **2018**.
4. *The Postmortem Human Skin Microbiome: A Tool for Determining the Postmortem Interval*
Forensic Science Seminar Series, University of Lincoln, Lincolnshire UK; 09-March **2018**.
5. *Exploring the Necrobiome: A New Forensic Resource for Estimating the Postmortem Interval*
Biology Department Seminar Series, Vassar College; Poughkeepsie, NY; 08-Nov **2017**.
6. *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**.
7. *The Biological Foundations of Justice.* Lisbon, Portugal; 13-April **2017**.
"International Talks on Forensic Science," Instituto Superior de Ciências da Saúde; Egas Moniz
8. *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**.
9. *The Biological Foundations of Justice.* Monthly Book Talk Series, John Jay College of Criminal Justice,
CUNY. New York, NY; 15-Nov **2016**. <https://youtu.be/iI8VkSwF1Kw>
10. *A Computational Model for Using the Skin Microbiome to Determine the Postmortem Interval*
3rd Annual National Forensic Science Week; Office of the Chief Medical Examiner of New York City
New York, NY; 11-Aug **2016**.
11. *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**
12. *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**
13. *Divalent Cations as Adulterants in Urine Drug Testing.* New York, NY; 01-Nov **2013**
Seminar Series, Chemistry Dept., Queensborough Community College, The City University of New York

14. *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**
15. *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**.
16. *TFs and SNPs: Undergraduate Molecular Biology Research Projects Using Genome Bioinformatics*
Seminar series, Department of Biology, University of Portland
Portland, OR; 24-Jan-**2011**
17. *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**
18. *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. *A Global Examination of microRNA Genes in Modern and Ancient Human Genomes*. 91st Annual Meeting of the American Association of Biological Anthropology. Denver, CO; 26-Mar **2022**. *Chaired this session*
2. *Evolution of de novo microRNA Genes in the Human Lineage*. 90th Annual Meeting of the American Association of Physical Anthropology. Baltimore, MD; 23-Apr **2021**.
3. *This World of Humans: A New Science Podcast from Visionlearning with Free Teaching Guides*. 7th Annual STEM Forum & Expo, Nat'l. Sci. Teachers Assoc. (NSTA); Philadelphia, PA; 12-July **2018**.
4. *This World of Humans: A New Science Podcast with Teaching Guides*. 17th CUNY Conference on Instructional Technology; New York, NY; 30-Nov **2017**
5. *Development of a Statistical Model to Determine the Postmortem Interval (PMI) Using the Human Skin Necro-Microbiome*, 69th Annual Meeting, Amer. Acad. Forensic Sci. (AAFS); New Orleans; 15-Feb **2017**.
6. *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**.
7. *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**.
8. *Regulation of the CCN genes by MZF-1 in the hematopoietic compartment*. **Lents NH** and Piszczatowski R. *Session chair*, International Forum on Immunology; Montreal, Canada; 20-Oct **2013**.
9. *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**.
10. *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**. 18th Annual Sloan-Consortium Conference on Online Learning; Orlando, FL; 12-Oct **2012**

11. *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**
12. *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**.
13. *Ditching Science Textbooks by Using Visionlearning and Other Free Online Resources.* **Lents NH** and Carpi A (presented by Lents NH). 10th CUNY Conference on Instructional Technology; New York, NY; 02-Dec **2011**
14. *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**
15. *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**
16. *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**.
17. *Creating Hispanic Scientists: Transformation of a technician-oriented science program through undergraduate research,* Carpi A and **Lents NH** (presented by both authors). 13th National Conference of the Council on Undergraduate Research (CUR); Ogden, UT; 20-June **2010**
18. *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**
19. *Mentoring and Undergraduate Research to Increase Retention and Success of Minority Undergraduate Scientists,* Carpi A, and **Lents NH** (presented by Lents NH). 23rd Annual Conference of the Hispanic Association of Colleges and Universities (HACU). Orlando, FL; 02-Nov **2009**
20. *Simple but Powerful Internet Tools for Enhancing College Science Instruction,* **Lents NH**. 15th Annual Sloan-Consortium Conference on Online Learning; Orlando, FL; 29-Oct **2009**
21. *Visionlearning: Building an Open Online Learning Environment for Promoting the Nature and Practice of Science,* Carpi A, Egger A, **Lents NH**. 15th Annual Sloan-Consortium Conference on Online Learning; Orlando, FL; 30-Oct **2009**
22. *Teaching the Process of Science in Evolution, Phylogenetics, and Natural Selection,* **Lents NH** and Carpi A. 9th Quadrennial Conference of the National Association of Paleontology; Cincinnati, OH; 22-June **2009**
23. *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**
24. *Web-based Enhancements in Science Education,* **Lents NH**. 7th CUNY Conference on Instructional Technology; New York, NY; 05-Dec-**2008**
25. *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**

Student Posters, Co-authored Presentations, and Other Published Abstracts

1. Paredes I and **Lents NH**. *An Evolution and Bioinformatics Exploration of Vitamin B12 Absorption*. Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS), 20-Oct **2020**.
2. **Lents NH**, Johnson HJ, Mercado B, Blandino J, Galván J, Vee S, and Wiggins W. *A New Approach Toward Discovering and Characterizing Orphan Genes in the Human and Neanderthal Genomes*. American Association of Physical Anthropology (AAPA), Los Angeles, CA; 18-Apr **2020**. *Cancelled due to COVID19*
Published abstract: American Journal of Physical Anthropology. v171: p159.
3. Mercado B and **Lents NH**. *Discovery and Classification of a Human Unique microRNA*. Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA; 14-Nov **2019**.
4. Galván J & **Lents NH**. *Analysis of microRNA Gene Evolution in the Neanderthal and Human Genomes*. Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA; 14-Nov **2019**.
5. 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**.
6. 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**.
7. Trinidad DD, **Lents NH**. *Using the Human Necromicrobiome to Estimate the Postmortem Interval*. 6th Annual Forensic Sci. Student Research Exch., Cedar Crest College, Allentown, PA. 09-April **2016**.
8. Trinidad, DD and **Lents NH**. *Exploring the Postmortem Human Microbiome*. Annual Biomedical Research Conf. for Minority Students (ABRCMS), Seattle, WA; 18-Nov **2015**.
9. Lerer A, Fonarova T & **Lents NH**. *Zinc Reduces Detection of THC by ELISA Urine Testing, While Copper May Cause a False-Positive Result*. Soc. of Tox., 54th Annual Meeting, San Diego, CA; 24-Mar **2015**.
10. Sokolowski D, **Lents NH**. *DNA-Based Forensic Analysis of Plant Phylogeny Identification using Chloroplast DNA*. Annual Biomed. Research Conf. for Minority Stud. (ABRCMS), San Antonio, TX; 14-Nov **2014**.
11. Guzman S and **Lents NH**. *Analysis of the Human Microbiome on Living and Decomposing Bodies*. Annual Biomedical Research Conf. for Minority Students (ABRCMS), San Antonio, TX; 13-Nov **2014**.
12. Rozado A and **Lents NH**. *Regulation of CCN2 and CCN3 in Bone Marrow through Myeloid Zinc Finger-1 and Its Medical Implication in Hematopoiesis*. Amer. ASBMB/Experimental Biology, San Diego, CA; 29-Apr **2014**. The FASEB Journal 28:1S, 1005.4.
13. Anthony T and **Lents NH**. *Exploring the Mechanism of How Zinc Supplements Reduce the Detection of THC in Urine*. Annual Biomedical Research Conference for Minority Students (ABRCMS), San Jose, CA; 09-Nov **2012**. (winner - poster presentation award)
14. Piszczatowski R and **Lents NH**. *MZF-1 Regulates the CTGF Gene in the Hematopoietic Compartment*. Amer. Soc. of Biochem. & Mol. Bio. (ASBMB); Experimental Biology, San Diego, CA; 25-Apr **2012**.
15. He Y, Swenson S, **Lents N**. *Assessment of Online video tutorials in an undergraduate analytical chemistry course - A pilot study*. Pittcon 2012; Orlando, FL; 12-Mar **2012**
16. **Lents NH** and Carpi A. *A Federally-funded Free Science Education Resource with Modular Functionality, Mobile Apps, and More*. 17th Annual Sloan Consort. Int'l. Conf. on Online Learning; Orlando; 09-Nov **2011**
17. Piszczatowski R, Lugo M, & **Lents NH**. *MZF-1 regulates CTGF Expression in the Hematopoietic Compartment*. Gordon Research Sem., Cell Bio. of Megakaryocytes/Platelets; Galveston, TX; 19-Mar **2011**.

18. Egger A, Carpi A, and **Lents NH**. *Understanding Theories: Explicitly Teaching the Process of Science to Address Common Misconceptions*. 2010 Annual meeting of the Geological Society of America (v42, No5, p381); Denver, CO; 02-Nov **2010**.
19. Carpi A and **Lents NH**. *Teaching to the Nature of Science Content Standards*. National Conference of the National Science Teachers Association (NSTA); Philadelphia, PA; 18-Mar **2010**.
20. Grimley K, Peralta Z, Kobilinsky L, and **Lents NH**. *Forensic Validation of the iPrep™ DNA Purification System*. 19th Promega International Symposium on Human Identification; Hollywood, CA; October **2008**.
21. **Lents NH** and Dynlacht BD. *Discovery and Characterization of a Novel DNA Damage-induced Splice Variant of Mdm2*. ASBMB/Experimental Biology, San Diego, CA; *The FASEB Journal*. **2008**;22:775.2.
22. Moran JM, **Lents NH**, Baldassare JJ, Corbett JA. *A Novel Role for PI3-kinase: Modulation of the Anti-viral Response*. 69th Annual Meet. of Amer. Diabetes Assoc. (ADA); Orlando, FL; *Diabetes*. **2004** (53)A300.
23. **Lents NH**, Keenan SM, and Baldassare JJ. *Phosphorylation of pRb by CDK2-cyclin E Alone is Sufficient to Relieve pRb-mediated Repression of E2F Activity, Cyclin A Expression, and G1 progression*. Gordon Research Conference: The Molecular and Genetic Basis of Cell Proliferation. Colby-Sawyer, NH; July **2003**
24. **Lents NH**, Keenan SM, Bellone CJ, and Baldassare JJ. *Activation of the Raf/MEK/ERK Cascade is Necessary and Sufficient for Thr-160 Phosphorylation of a Nuclear-targeted CDK2*. Cancer Genetics and Tumor Suppressor Genes; Cold Spring Harbor, New York; Aug **2002**.
25. **Lents NH** and Baldassare JJ. *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*. Cancer Genetics and Tumor Suppressor Genes; Cold Spring Harbor, New York, August **2002**.
26. Bolla RI, Harms R, Brown G, Maune G, **Lents NH**, Nebel P. *Resistance to soybean cyst nematode: Genetic linkages*. Annual Conference of the International Society of Nematology (65(2b) 501-514.); University of Ghent, Belgium; May **2000**.

Invited Public Talks

1. Talk, *The Future is Now! The Emerging Science of Human Improvement*. CSIcon (Committee for Skeptical Inquiry conference); Las Vegas, NV; 21-Oct **2022**.
2. Talk, *Hacking Humanity*. Cheltenham Science Festival; Cheltenham, UK; 10-June **2022**.
3. Dialogue: *When Did We Become Human: The Genealogical Adam and Eve* (with S. Joshua Swamidass). Veritas Forum, Christopher Newport University; Newport News, VA; 09-Mar **2022**.
4. Dialogue: *A Scientific Case for Adam and Eve? Evolution, Genesis, and the Question of Human Origins* (with S. Joshua Swamidass). Veritas Forum, University of North Carolina; Chapel Hill, NC; 09-Feb **2022**.
5. Talk, *Human Errors: What Our Quirks Tell Us about Our Past*. Rochester Museum and Science Center; Rochester, NY; 11-Nov **2021**.
6. Talk, *Human Errors: What Our Quirks Tell Us about Our Past*. Museum of Science and Technology; Syracuse, NY; 21-Oct **2021**.
7. Talk, *The Biology of the X-men*; AIPT! SciPhi-Fest (a virtual con); 18-July **2021**. <https://youtu.be/DRm9X1n3uk>
8. Talk, *From Junk to Genes: The birth of new miRNA genes in the human genome* (virtual); Bay Area Skeptics; San Francisco, CA; 11-Feb **2021**. <https://youtu.be/3isqBsaCgOc>
9. Talk, *Why Our Culture Fails Our Biology*. Brand Week Istanbul (virtual); Istanbul, Turkey; 13-Nov **2020**.
10. Talk, *Evolution Only Breaks Things: The Science Denial at the Heart of Intelligent Design*. Skeptical Inquirer Presents (virtual version of CSIcon); Center for Inquiry 24-Sep **2020**. <https://youtu.be/SmronHgF4o4>

11. Keynote Talk, Central New York Science and Engineering Fair: *Evolution and Human Errors*. Museum of Science and Technology, Syracuse, NY; 26-Mar **2020**. *Cancelled due to COVID19*
12. Dialogue: *Science, The Bible, & Human Origins: Atheist & Christian Scientists Discuss Adam & Evolution*. Veritas Forum, Columbia University; New York, NY; 18-Nov **2019**. <https://youtu.be/YEphlxSHyy8>
13. Talk, *Human Errors: What Our Quirks Tell Us about Our Past*. <https://youtu.be/a1PiR5QMPew> CSIcon (Committee for Skeptical Inquiry conference); Las Vegas, NV; 18-Oct **2019**.
14. Talk, *Homo sapiens: Evolution's Biggest Goof*. Hudson Valley Science Cafe; Newburgh, NY; 25-Sep **2019**.
15. Talk, *The Biology of Human Relationships: Attachment, Family, Community, Society*. Summer Institute, Crosswise Institute; Concordia University, Irvine, CA; 24-June **2019**.
16. Dialogue, *Evolution and Errors* (joint session with Adam Rutherford). Cheltenham Science Festival; Cheltenham, UK; 09-June **2019**.
17. Dialogue, *Human Errors* (moderated by Lea Sellers). Emirates Literature Festival. Dubai, UAE; 08-March **2019**.
18. Dialogue, *Being Human, Evolution Explained* (with Adam Rutherford and Toby Mundy). Wimbledon Bookfest. London, UK; 07-Oct **2018**.
19. Plenary panel, Ars Electronica Festival Symposium, *Error: The Art of Imperfection*. Linz, Austria; 07-Sep **2018**. <https://youtu.be/-W8yQTFwC8>
20. Keynote Talk, *Animal Behavior*, NightLife Event: "The Origin & Value of Grief in Animals (including humans)". California Academy of Sciences. San Francisco, CA; 16-Aug **2018**.
21. Keynote Address, Phi Beta Kappa Induction Ceremony. *Human Errors: Design Flaws in the Human Form*. City College of New York (CUNY), New York, NY; 26-April **2018**.
22. Keynote Address, "(HUM)animal symposium," Faculty for Radical Engagement and Enlightenment. Truckee Meadows Community College; Reno, NV; 27-March **2018**.
23. Distinguished Alumnus Address: Graduation Ceremony, Graduate Programs in Biomedical Sciences. Saint Louis University School of Medicine; Saint Louis, MO; 18-May **2017**.
24. Keynote Address: *The Secrets to Success in College STEM Programs: A Scientific Look*. 2017 Teptu Science Research and Entrepreneurship Competition; New York, NY; 03-April **2017**.

Public Events Hosted/Moderated

1. Moderator, *Accelerating Evolution: How Technology Can Make Humans "Super."* (with Alessia Baccarini, Brian Brown, and Michael Petrascheck). Comic Con "Special Edition"; San Diego, CA, 28-Nov **2021**.
2. Moderator, *A Terrible Thing to Waste* (w/ Harriet Washington). John Jay College Monthly Book Talk Series, New York, NY; 20-Apr **2020**.
3. Moderator, *A Terrible Thing to Waste* (w/ Harriet Washington and Dustin Duncan). New York Public Library, New York, NY; 18-Sep **2019**.
4. Moderator, *The Poison Squad* (w/ Deborah Blum). John Jay College Monthly Book Talk Series, New York, NY; 05-Sep **2019**. <https://youtu.be/ouJRIqCibMw>
5. Moderator and Panelist, *The Silent Witness: Science After Death* (w/ Gilian Fowler and Nikolas Lemos). Cheltenham Science Festival; Cheltenham, UK; 09-June **2019**.
6. Moderator of three "Science and Story Café" sessions: *The Fear Factor* (w/ Abigail Marsh), *The Human Swarm* (w/ Mark Moffett), and *This View of Life* (w/ David Sloan Wilson). World Science Festival; New York; 01-June **2019**.
7. Moderator, *Humanimal*, (w/ Adam Rutherford); McNally Jackson Bookstore, Brooklyn, NY; 26-Mar **2019**.

8. Moderator, *What Makes Us Human?* (w/ Maria Konnikova, Sebastian Seung, and Carl Zimmer). 92nd Street Y. New York, NY; 04-Oct **2018**.
9. Moderator, *Aroused: A Discussion of Body and Behavior, Hormones and Hucksters*. (w/ Randi Epstein, Katrina Karkazis, and Harriet Washington). Macaulay Honors College. New York, NY; 25-Sep **2018**.
10. Moderator, Honorary Degree Recipient Panel (w/ Dr. Ronald V. Clarke and Prof. Rashida Manjoo). John Jay College; New York, NY; 29-May **2018**.

Workshops and Panels

1. Panelist, *Human Origins Workshop 2020* (w/ William Lane Craig, Stephen Schaffner, and Fazale Rana). Reasons to Believe Scholar Community. West Covina, CA; 18-Jan **2020**.
2. Featured Speaker, Teacher Institute for Evolutionary Sciences (Richard Dawkins Foundation for Reason and Science), Faculty development events for biology teachers, grades 6-8 or 9-12:
 - a. *Human Errors*, Birmingham Zoo, Birmingham, AL (webinar); 06-Feb **2021**.
 - b. *Human Errors*, Birmingham Zoo, Birmingham, AL (webinar); 30-Oct **2020**.
 - c. *Human Errors*, (webinar); 05-May **2020**. <https://youtu.be/C90lvJcbQOE>
 - d. *Human Errors*, Darwin Day Event, Museum of Science and Industry, Tampa, FL; 15-Feb **2020**.
 - e. *Human Errors*. Brandywine Zoo, Wilmington, DE; 25-Oct **2019**.
 - f. *Human Errors*. Birmingham Zoo, Birmingham, AL; 25-Oct **2018**.
 - g. *Human Errors Explained*. (Webinar) 03-Oct **2018**.
3. Discussant, *When Bacteria Take Over the World: Researchers Discuss the Rise of Superbugs* (w/ Matt McCarthy and Elizabeth Reis). Macaulay Honors College. New York, NY; 24-Sep **2019**.
4. Panelist, *Accelerating Evolution: How Technology is Making Humans Super*. (with Brian Brown, Mandy-Rae Cruickshank-Krack; Poppy Crum, Peter Ward, moderated by Shane Campbell-Staton) Comic-Con; San Diego, CA, 20-July **2019**.
5. Panelist, *The Science and Philosophy of X-men Biology*. (w/ X-men writer Matthew Rosenberg) Northeast Conference on Science and Skepticism (NECSS). New York, NY; 12-July **2019**.
6. Facilitator, *The Science of Forensic Science*. World Camp Academy, International Youth Fellowship. Manhasset, NY; 21-Aug **2018**.
7. Panelist, *What Are Best Practices in Mentoring Students? A Discussion*. John Jay College Faculty Development Day; 23-Aug **2018**
8. Facilitator, *Landing (and Excelling at) a Faculty Position in a Primarily Undergraduate Institution*. Fundamentals of Teaching, Postdoctoral Affairs. Columbia University; April **2015**, April **2016**, Feb **2017**.
9. 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**, 04-Nov **2017**
10. Panelist, *Changing the Narrative about Our Students: Disrupting Implicit Bias*. John Jay College Faculty Development Day; 24-Aug **2017**
11. Facilitator, *Innovations in Active Learning in the College Science Classroom* Short Course in Science Teaching, Rockefeller University, New York, NY; 22-Oct **2015**.
12. Facilitator, *Teaching Careers in Higher Education*. Science Training Enhancement Program, New York University, New York, NY; 29-Jan **2015**.
13. Facilitator, *Innovations in Teaching*; and *Showing Pedagogical Competency When Applying for...* STEM Teaching Practices, The Graduate Center, CUNY, New York, NY; 14-Aug **2013**, 30-July **2014**

14. Facilitator, *The Science of Science Teaching*. New York University Medical Center, Science Education and Pedagogy Seminar Series. New York, NY; 01-Mar **2012**; 09-Sep **2013**; 08-Sep **2014**
15. Panelist, *Integrating Students into Your Research*
John Jay College Faculty Development Day 2013; 27-Aug **2013**
16. Co-facilitator, *The Scholarship of Teaching and Learning: Making the Classroom a Laboratory of Learning*.
Carpi A and **Lents NH**; John Jay College Faculty Development Day; 24-Aug **2012**
17. Co-facilitator, *Engaging Undergraduates as Scholars: Developing Faculty-Student Research/Creative Projects*. Workshop by **Lents NH** & Crossman A; John Jay College Faculty Development Day; 25-Aug **2011**
18. Co-facilitator, *Transforming a Technical Science Curric. into a Major Research Prog. for Hispanic Scientists*
Carpi A & **Lents NH** in "Creating a Culture of Research on Campus." Workshop by C.U.R. and C.C.A.S.;
College of William and Mary; Williamsburg, VA; 16-Oct **2010**.
19. Facilitator, *Raising the bar: Instructional technology, student-centered learning, and increased time-on-task*
Science Pedagogy Workshop, Center for the Advancement of Teaching; John Jay College, 30-Apr **2010**
20. Facilitator, *Technology-based Innovations in Science Pedagogy: Keep it Simple, Stupid*
Teaching Science for the 21st Century: Strategies for Success; CUNY Graduate Center, 23-Apr **2010**.
21. Facilitator, *Implementing and Assessing Innovation: Making the Classroom a Laboratory*.
The Center for the Advancement of Teaching, John Jay College; 10-Sep **2009**

Peer-Reviewed Educational Modules (The Visionlearning Project)

Modules co-authored:

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

Modules sole-authored:

20. "Membranes II: Passive and Active Transporters." *Visionlearning* Vol. Bio-3(8), **2014**.
21. "Classic Experiment: Meselson and Stahl and the Models of DNA..." *Visionlearning*. Vol. Bio-5(2) **2011**.
22. "DNA III – The Replication of DNA." *Visionlearning* Vol. Bio-5(1), **2009**.
23. "DNA II – The Structure of the Genetic Material." *Visionlearning* Vol. Bio-3(1), **2009**.
24. "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. (6th 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.

Media

Television/Radio/Podcast Interviews:

1. *The Science Society (Clubhouse)*. 05-Apr **2022**. "Human Evolutionary Distinctiveness." https://www.clubhouse.com/room/xRaZnp?utm_medium=ch_room_xerc&utm_campaign=j24X6ivwc0EnmCityMfvdw-137164
2. *Cheddar News*. 11-Jan **2022**. "Why The Human Shoulder Is A Design Disaster." <https://youtu.be/cJotSPBPuv4>
3. *The Dissenter*. 12-Mar **2021**. "Nathan Lents – Human Errors: A Panorama of..." <https://youtu.be/MMr202BtrLE>
4. *Cheddar News*. 10-Dec **2020**. "Why the Human Eye is a Design Disaster." <https://youtu.be/fPnYH06VJVo>
5. *Don't Pee on Your Leg (& other scientific misconceptions)*. 24-Sep **2020**. "Human Errors with Nathan Lents." <https://soundcloud.com/dontpeeonyourleg/e44>
6. *Cheddar News*. 16-Sep **2020**. "The Surprising Reason Why Human Teeth Are..." <https://youtu.be/PzYLSpy5yFw>
7. *Bar Crawl Radio (Upper West Side Radio)*. 31-July **2020**. "Nathan Lents on COVID19." <https://shows.acast.com/bar-crawl-radio/episodes/nathan-lents-on-covid19>
8. *Laughing in Disbelief (YouTube Channel, Andrew Hall)*. 09-June **2020**. "Dr. Nathan Lents Talks Evolution." https://youtu.be/kepSj_Cng1Q
9. *Cheddar News*. 07-Apr **2020**. "Why The Human Knee Is A Design Disaster." <https://youtu.be/5RX7Q4uczZw>
10. *Unbelievable! (Radio, Podcast, YouTube Channel)*. 06-mar **2020**. "The Genealogical Adam and Eve..." <https://youtu.be/qmRV11bHJqY>
11. *Modern Day Debate*. (Podcast and YouTube Channel). 16-Feb **2020**. "The Argument from Poor Design..." <https://www.youtube.com/watch?v=r49K34NmSww>
12. *St. Louis on the Air. NPR*. 10-Dec **2019**. "Wash U's Dr. Joshua Swamidass Builds Bridge Between..." <https://news.stlpublicradio.org/post/wash-us-dr-joshua-swamidass-builds-bridge-between-science-and-creation-myths-new-book#stream/0>
13. *Science Fantastic with Michio Kaku – SiriusXM*. 15-Nov **2019**.
14. *Oh No Ross and Carrie!* 18-Nov **2019**. "Ross Meets Nathan H. Lents: Human Errors Edition." <http://ohnopodcast.com/investigations/2019/11/17/ross-meets-nathan-h-lents-human-errors-edition>
15. *48 hours – CBS News*, 14-Sep **2019**. "The Hollywood Ripper." <https://www.cbsnews.com/news/the-hollywood-ripper-how-48-hours-helped-crack-the-case-of-convicted-serial-killer-michael-gargiulo/>
16. *PIX11 Evening News – CW* 13-Sep **2019**. "DIY Rape Kit Creator Faces Pushback from NY AG." <https://pix11.com/2019/09/13/diy-rape-kit-creator-faces-pushback-from-ny-ag/>
17. *Spectrum News – NY1*. 21-June **2019**. "Autopsy Report Details Final Moments of a Queens Veteran..." <https://www.ny1.com/nyc/all-boroughs/news/2019/06/22/everett-palmer-jr-autopsy-report-details-final-moments-of-queens-veteran-who-died-in-a-pa-jail-york-county>
18. *The Physician's Guide To Doctoring*. 13-June **2019**. "Human Errors: A Panorama of Our Glitches From..." http://hwcdrn.libsyn.com/p/2/f/a/2fa73992b0a76cb6/EP22_PGD.mp3?c_id=44711201&cs_id=44711201&expiration=1574191186&hwt=de51a7e8330e8bc67ef2b9bfd2efb9e8
19. *Bar Crawl Radio (Upper West Side Radio)*. 03-Apr **2019**. "UWS Margarita Crawl." <https://shows.acast.com/bar-crawl-radio/episodes/bcr-16-uws-margarita-crawl>
20. *The PRISM podcast*. 05-Mar **2019**. Episode #101: "Dr. Nathan H. Lents and Human Errors." <http://prismpodcast.libsyn.com/the-prism-podcast-episode-101>
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40. Article in The Huffington Post, 23-Oct **2013**. *The Truth About Zinc and Drug Tests.*
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41. *Spoonfull of Medicine* – from Nature Medicine, 24-April **2012**. (on legislation of synthetic cannabinoids)
<http://blogs.nature.com/spoonful/2012/04/is-chuck-schumer-going-to-blunt-us-cannabinoid-research.html>

Public Scholarship

The Human Evolution Blog and NathanLents.com:

- Authored >90 posts since August 2014; Page views: 9-12k/month, lifetime total >280k (Nov 2018)
- Articles reprinted by: gritwire.net (tech blog), 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 on Feedspot: #7 in “Top Evolution Blogs,” #56 in “Top 100 Philosophy Blogs”

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

- 32 articles contributed to date; >500k total page views (Nov 2018)
- Articles cited in [USA Today](#), [The Daily Mirror](#), *New York Magazine*, [IFL Science](#), [The Daily Mail](#), [The Telegraph](#), [New York Post](#), [People Magazine](#), *Live with Kelly*, [Bustle](#), [The Cut](#), [CafeMom](#), [Thrive Global](#)

Podcast: This World of Humans

- Host and executive producer of interview-style science podcast focusing on biology and social science
- 14 episodes to date (June 2019), currently funded by John Jay College, RF-CUNY, and Visionlearning
- www.visionlearning.com/en/twoh

Magazine/Newspaper Articles

1. “Mytho-History: The “Evolution” of Adam and Eve. *Skeptic*. v27(1) Jan/Feb **2022**. pp28-32.
2. “Behe, Bias, and Bears (oh my!): A Swing and a Miss for...” *Skeptical Inquirer*. Mar/Apr **2021**.

3. "The lesson of Kitzmiller: Science bridges divides." St. Louis Post-Dispatch. 28-Dec **2020**.
4. "Science bridges divides for a better world." Pittsburgh Tribune. 19-Dec **2020**.
5. "Do-it-yourself kits to collect evidence could actually help rapists." Newsday. 07-Oct **2019**.
6. "Upcoming book leaves scientific possibility for existence of 'Adam and Eve'." USA Today. 04-Oct **2019**.
7. "Stranger Danger: Review of *The Human Swarm*... by Mark Moffett." Skeptic v24(4) **2019**: p51-55.
8. "Behe's Last Stand: The Lion of Intelligent Design Roars Again" Skeptic v24(2) **2019**: p36-41. [cover story]
9. "Does Trump Fit the Evolutionary Role of Narcissistic...?" (w/ Robert Trivers) Arc Digital. 05-Nov **2018**.
10. "The Inevitability of Intelligent Life? A review of *The Equations of Life*..." Skeptic v23(4) **2018**: p57-59.
11. "6 choses étonnantes que vous ignorez sur votre corps." Huffington Post (France). 03-July **2018**.
12. "Five Questions about Human Errors for Proponents of Intelligent Design." Skeptic v.23(3)**2018**: pp.2-6.
13. "The Glitches that Make Us Human." i. ("The i" Newspaper, UK) 22-May **2018**.
14. "Evolution's Worst Mistake? How About External Testicles?" Undark Magazine. 18-May **2018**.
15. "Cancer, mutations and the facts of life." The Observer. 22-Apr **2018**.
16. "The Botch of the Human Body." The Wall Street Journal. 14-Apr **2018**.
17. "What Biology Can Teach Us about Crime and Justice." **Lents NH** and Kazemian L. Skeptic v22(4) Winter **2017**: 12-19.
18. "Big News on *Homo naledi*: More Fossils and a Surprising Young Age." Skeptic v22(3) Fall **2017**: 8-11.
19. "Paleoanthropology Wars: The Discovery of *Homo naledi* Has Generated Considerable Controversy in This Scientific Discipline." Skeptic v21(2) Summer **2016**. 8-11.
20. "*Homo naledi* and the Problems with the Homo Genus." The Wildernist. Issue #3, October **2015**.

Additional:

- Essay in Adventures in Poor Taste, "Ahead of Hickman's... an evolutionary biologist ..." 29-June **2019**.
- Essay in Adventures in Poor Taste, "Darwin Devolves: Intelligent Design is back and..." 12-Feb **2019**.
- Essay in NY Metro Parents, "The Health Benefits of Playing Outside." 27-Nov **2018**.
- Essay in Adventures in Poor Taste, "Reality Check: Are the X-men the Next Step..." 06-Nov**2018**.
- Essay in Discover Magazine blog, *The Crux*. "The Evolutionary Quirk... Vitamin B₁₂..." 13-Aug **2018**.
- Essay in Adventures in Poor Taste, "The Beauty of Mutation and Imperfection." 30-Oct **2018**.
- Essay in Discover Magazine blog, *The Crux*. "We Can Thank... Vitamin D Deficiencies." 10-July **2018**.
- Essay in Powell's Books Blog: "The Flawed Human Body: What would I Change..." 08-May **2018**.
- Essay in Gender and Society: "Mountain Gorillas Teach a Lesson about Gendered..." 24-June **2016**.
- StageBuddy: Staff critic for family theatre, 6 reviews
- Psych2go: Interviewed twice for articles
- Headspace: Interviewed for article
- Clapway.com: 5 articles contributed. (Now inactive)

Patents

Method for the Forensic Identification of Plant Material. Inventor: **Lents NH**. Applicant: The Research Foundation of CUNY. Provisional application: 62/564,545. Date filed: 28-Sep **2017**.

Books

(Represented by the Marly Rusoff Literary Agency)

1. **Lents NH**. Human Errors: A Panorama of Our Glitches, from Pointless Bones to Broken Genes. Houghton Mifflin Harcourt. 01-May **2018**. (For more details: <https://thehumanevolutionblog.com/book-human-errors/>)
 - Foreign markets to date: UK/Ireland/Australia, China, Japan, Taiwan, South Korea, Poland, Norway, France/Quebec
 - Blurbs: Michael Shermer, Bob Trivers, Michio Kaku, Deborah Blum, Ian Tattersall, Adam Rutherford
 - Reviews and Feature Articles: Kirkus Reviews, Discover Magazine, The Times (UK), The Financial Times (UK), The Australian, The Daily Express (UK), The New York Post, Geographical Magazine (UK), The Irish Times, Shelf Awareness, Family Tree Magazine, The Biologist, Patheos, Rated Reads, Science-based Medicine, Massive Science, The Inquisitive Biologist, The Evening Standard (UK), National Herald (India)
 - Selected: "Hot Summer Read," *Discover Magazine*; "Big Title," *Publishers Weekly*; "Summer Read, 2018," *The Financial Times*; "Summer Read," *Wall Street Journal*; "Buzz Book," *Publishers Marketplace*; "Book Pick," *Publishers Weekly*; "Best Science Books to Read in Summer 2018," *Endpoints*; "11

Nonfiction Books that Explain the Mysteries of the Human Body, *Bustle.com*; “Exceptional Nonfiction, *Strong Words* (UK). “Book of the Month,” *Geographical* (UK), “Top Choice,” *Family Tree Magazine*, “Summer Reading 2019,” *The Times Higher Education Supplement* (UK).

- Media Appearances/Interviews: *Innovation Hub* (NPR), *Midday Edition* (KPBS/NPR), *Weekend Edition* (Monocle Radio, UK), *Science Focus* (BBC), *CapeTalk* (S. Africa), *Doctor Radio* (SiriusXM), *Press Play* (NPR), *The Hidden Why*, *Dr. Alvin*, *The Polymath Project*, *Something You Should Know* Podcast, *Midday Edition* (WNYC/NPR), *Talking of Books Radio Show* (Dubai), *Inter France* (Paris), *Science Fantastic with Michio Kaku* (2x), *Oh No with Ross and Carrie*, *The Physician’s Guide to Doctoring* (2x),
- Invited Articles: *Wall Street Journal*, *The Observer* (the Sunday Guardian, UK), *Literary Hub*, Powell’s Books Blog, *The i Paper* (UK), *Skeptic Magazine*, *Undark Magazine*, *Huffington Post* (France)
- Book Talks: Phi Beta Kappa (CCNY), Book Culture (NYC), New York Public Library, Boston Public Library, San Diego Public Library, San Francisco Public Library, New York City Skeptics, Ars Electronica Festival (Austria), Wimbledon Bookfest (UK), JASA, New York Atheists, Saint Louis Public Library, Barrington (IL) Public Library, Decatur (IL) Public Library, Emirates Literary Festival (Dubai), Cheltenham Science Festival (UK), Tampa Museum of Science and Industry, Rochester (NY) Museum and Science Center, Milton J. Rubenstein Museum of Science and Technology (Syracuse, NY).

2. **Lents NH.** *Not So Different: Finding Human Nature in Animals*. Columbia University Press. May **2016**.

- Blurbs: Marc Bekoff, Joan Roughgarden, Con Slobodchikoff, Ian Tattersall
- Reviews: *Publishers Weekly* (★), *Psychology Today*, *Quarterly Review of Biology*, *Human Ethology Bulletin*, Greenspirit Book Reviews, Fresh Fiction Reviews, *Decatur Herald & Review*, *The European Legacy*, [Criticized by Ken Ham on his “Answers in Genesis” blog].
- Articles discussing the book: *Chronicle of Higher Education*: “Animal Minds”; *The Wire: Infinite in All Directions: The Five Fronts of Consciousness, an Old Frontier*,
- 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, Truckee Meadows Community College, California Academy of Sciences

Research Articles, Reviews, and Book Chapters

(h-index = 19; Erdős number = 4)

1. Barclay G, Vee S, and **Lents NH**. *The Glow of the Night: The Tapetum Lucidum as a Co-adaptation for the Inverted Retina*. Submitted, 07-Jan **2022**. [Bioessays](#).
2. Johnson HR, Blandino JA, Mercado BC, Galván JA, Higgins WJ, and **Lents NH**. *The Evolution of de novo Human-Specific MicroRNA Genes on Chromosome 21*. Accepted 03-Jan **2022**; Published online 03-Mar **2022**. [American Journal of Biological Anthropology](#).
3. **Lents NH** and Piszczatowski RT. *Cyclins. Cyclin-dependent Kinases, and CDK inhibitors*. Appears in: *Encyclopedia of Cell Biology*, 2nd Ed. Vol. 3. Editors: Bradshaw RA, Hart GW, and Stahl PD. *In-press*, © **2022**, Elsevier Academic Press, Oxford, UK.
4. **Lents NH**, Swamidass SJ, Lenski RL. *The End of Evolution? A Biochemist’s Crusade to Overturn Evolution Misrepresents Theory and Ignores Evidence*. *Science*. 08-Feb **2019**. v363(6427): p590.
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The following four chapters appear in: *Encyclopedia of Evolutionary Psychological Science*. Editors: Shackelford TK and Weekes-Shackelford, VA. © **2019**, Springer, Berlin.

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