

# Curriculum Vitae

Trisha Gura, Ph.D.

email: trisha@trishagura.com

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**Education:**           **Northwestern University Chicago, Illinois 1986-1991**  
Ph.D., Molecular Biology  
Thesis: elucidated the mechanism of assembly for type I collagen from its three subunits and a chaperone protein

**Xavier University Cincinnati, Ohio 1982-1986**  
B.S., Natural Sciences  
Thesis: examined the biophysical structure of an ATP analogue as it fit into a larger protein deigned for X-ray crystallography. Graduated summa cum laude, grade point average 4.0/4.0

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**Experience**           **1995-present, Freelance Science/Medical Writer**  
Report and write print, web content, and multimedia for technical and consumer publications:

**1994-1996 General Reporter**  
*Chicago Tribune*. Specialized in science, medical and technology articles.

**Sept 1990, 1997-1999, Instructor**  
Taught Biology-related courses to students, from high school freshman to graduate level at Laurel School, John Carroll University (Cleveland, Ohio) and Loyola University (Chicago, Illinois).

**Jan 1991-1994, Postdoctoral Research Associate**  
Children's Memorial Hospital Chicago, Illinois. Directed a laboratory that studied the problem of heart valve failure in children.

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**Speaking Experience**           A representative sample of my speaking engagements include: Harvard University, Massachusetts Institute of Technology (MIT), the University of North Carolina, Case Western Reserve University, University of Chicago and Cleveland State University.

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**Scholarships and Awards**       • Knight Science Journalism Fellowship 2002-2003  
                                  • American Association for the Advancement of Science  
                                  • Mass Media Fellowship 1994  
                                  • Northwestern University graduate fellowship 1986-1991  
                                  • Xavier University Alumni Scholarship 1982-1986

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**Professional**           • Resident Scholar, Brandeis University, Waltham, MA  
                                  • Member, American Society for Journalists and Authors  
                                  • Member, National Association of Science Writers  
                                  • Member, PEN New England  
                                  • Member, Association for Health Care Journalists  
                                  • Member, Society for Women's Health Research

**Publications:** *Lying in Weight: The Hidden Epidemic of Eating Disorders in Adult Women.*  
**Books** HarperCollins: New York, 384 pages, 2007.

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**Publications:**  
**Articles**

#### RELATED TO DOCTORAL THESIS

"Endoplasmic Reticulum Protein Hsp47 Binds Specifically to the N-Terminal Globular Domain of the Amino-Propeptide of the Procollagen 1 alpha 1 Chain," *Journal of Cellular Biochemistry* (1995) 59: 350-367.

"Identification of Specific Calcium-Binding Noncollagenous Proteins Associated with Glutaraldehyde-Preserved Bovine Pericardium in the Rat Subdermal Model," *Journal of Biomedical Materials Research* (1997) 35: 483-495.

#### SCIENCE/BIOTECH

"Joining a Trend, Scientists Increasingly Say 'Call My Agent'," *Science* 16 January 2004 303: 303-305

"Dutch DNA: A Biotech Startup's Novel Gene Test," *Red Herring* 27 November 2003

"Scientific Publishing, Peer Review, Unmasked," *Nature* 21 Mar 2002 416: 258-260

"Biomedical Philanthropy, Silicon Valley Style," *Nature* 08 Mar 2001 410: 140-143

"Toronto's Science Jewel," *Nature* 31 May 2001 411: 519-520

"Changing of the Guard," *Nature* 25 May 2000 405: 389

"Apollo: Our Final Frontier," *Chicago Tribune* 17 July 1994

"Implant Debate to Cripple Innovation?" *Chicago Tribune* 13 March 1995

#### GENETICS AND GENOMICS

"After the Gold Rush: Gene Firms Reinvent Themselves," *Science* 20 September 2002 297: 1982-1984

"Gene Therapy and the Germ Line," *Molecular Therapy* 01 Jul 2002 6: 2-4

"The Battlefields of Britain," *Nature* 23 Aug 2001 412: 760-763

"Can SNPs Deliver on Susceptibility Genes?" *Science* 27 July 2001 293: 593-595

"SNP-ing Drugs to Size," *Science* 27 July 2001 293: 595

"After a Setback, Gene Therapy Progresses ... Gingerly" *Science* 2 March 2001 291: 1692-1697

"Reaping the Plant Gene Harvest," *Science* 21 January 2000 287: 412-414

"Organic Refuge Limits Superpests," *Science Now* 1 March 2000

"A Silence that Speaks Volumes," *Nature* 20 Apr 2000 404: 804-808

"Biotechnology: New Genes Boost Rice Nutrients," *Science* 13 August 1999 285: 994-995

**Publications:  
Articles**

- "New Ways to Glean Medicines From Plants," *Science* 27 August 1999 285: 1347-1349
- "Surgically Altering Plant Genes," *Science* 16 July 1999 285: 317
- "Repairing the Genome's Spelling Mistakes," *Science* 16 July 1999 285: 316-318
- "Helping Liver Cells Heal Themselves," *Science Now* 11 November 1998
- "Therapy Orders Cells to Fix Their Own DNA," *Science Now* 2 March 1998
- "Structure of Gene-Tag Protein Solved," *Science* 6 September 1996 273: 1336
- "US Successes Fuel Hopes for Gene Therapy," *New Scientist* 31 August 1996, 14
- "Butterflies Shed Light on Master Genes," *Chicago Tribune* 7 July 1994
- "Simpson DNA Tests Crucial," *Chicago Tribune* 28 June 1994
- "New Factor Found in Fixing Sex: Powerful Gene Directs Ovary Development," *Chicago Tribune* 1 August 1994

**IMMUNOLOGY, MICROBIOLOGY AND IMMUNITY**

- "The Emergence of Resistance: Researchers Find Clues about Cholera and Other Infectious Disease Outsmart Antibiotics," *Howard Hughes Medical Bulletin* Summer 2004, 38
- "Yale Scientists Identify an Early Line of Defense Against West Nile Virus," *Yale Medicine* Summer 2004, 11
- "Echinacea for Kids?" *The Boston Globe* 9 December 2003
- "Therapeutic antibodies: Magic Bullets Hit the Target," *Nature* 06 Jun 2002 417: 584-586
- "The Toll Road," *Yale Medicine* Spring 2002
- "Engineering Protection for Plants," *Science* 16 March 2001 291: 2070
- "Ancient System Gets New Respect," *Science* 16 March 2001 291: 2068-2071
- "Roots of Immunity," *New Scientist* 19 February 2000
- "On Guard," *New Scientist* 02 December 2000
- "Vaccine Boosts Xenotransplant Hopes," *Science Now* 2 August 2000
- "How Embryos May Avoid Immune Attack," *Science* 21 August 1998 281: 1122-1124
- "5 Ways to Stay Cold-And Flu-Free This Winter," *Good Housekeeping* December 1996 82-84
- "Chemokines Take Center Stage in Inflammatory Ills," *Science* 17 May 1996 272: 954-956
- "Cold Comfort," *the Gazette* 12 November 1994

**Publications:  
Articles**

**DEVELOPMENTAL BIOLOGY**

"One Molecule Orchestrates Amoebae," *Science* 11 July 1997 277: 182

**TISSUE ENGINEERING**

"Custom Made for You," *New Scientist* 29 May 1999 42-44

**DISEASES AND MOLECULES**

***HEART DISEASE***

"Gene Linked to Faulty Cholesterol Transport," *Science* 6 August 1999  
285: 814-815

"*Chlamydia* Protein Linked to Heart Disease," *Science Now* 26 February 1999

"Infections: A Cause of Artery-Clogging Plaques?" *Science* 3 July 1998 281: 35-37

***CANCER***

"Curing Cancer: Are We Getting Closer?" *Oberlin Alumni Magazine* Spring 2002

"Caution Raised About Possible New Drug," *Science* 5 May 2000 288: 786-787

"Gene Chip Predicts Outcome of Cancer Therapy," *Science Now* 3 February 2000

"Mousetrap for Cancer Genes," *Science Now* 4 November 1999

"Causing Cancer by Remote Control?" *Science* 20 June 1997 276: 1788-1789

"Systems for Identifying New Drugs Are Often Faulty," *Science* 7 November 1997  
278: 1041-1042

"New Kind of Cancer Mutation Found," *Science* 29 August 1997 277: 1201-1202

"How Trail Kills Cancer Cells But Not Normal Cells," *Science* 8 August 1997  
277: 768.

"Culture Plays a Role in Breast Cancer Care," *Chicago Tribune* 16 August, 1994

"Treatments for Breast Cancer OK," *Chicago Tribune* 11 October 1994

***DIABETES***

"New Lead Found to a Possible 'Insulin Pill'" *Science* 7 May 1999 284: 886

***ARTHRITIS***

"Making Strides in the Fights Against Arthritis," *Rush Record* Spring/Summer  
1997 12-15

***PREECLAMPSIA***

"Mouse Model for Pregnancy Problem?" *Science* 8 November 1996 274: 922

***RETT SYNDROME***

"Gene Defect Linked to Rett Syndrome," *Science* 1 October 1999 286: 27

**Publications:  
Articles**

**BLINDNESS**

"Damming a Cascade to Blindness," *Science Now* 3 December 1999

**ALZHEIMERS'**

"Step Toward Alzheimer Detection Eyedrop Test May Hold Key to First Reliable Diagnosis," *Chicago Tribune* 11 November 1994

**RARE DISEASES**

"For Kids with Sugar Disorder, Ladles of Gravy Like Spoonfuls of Medicine," *Chicago Tribune* 9 January 1995

**OBESITY RESEARCH**

"A Surprising Formula to Help You Avoid Overeating," *Health* March 2005 72-74

"New Data on Appetite-Suppressing Peptide Challenge Critics," *Science* 26 November 2004 306: 1453-1454

"Labs Fail to Reproduce Protein's Appetite-Suppressing Effects," *Science* 9 July 2004 305: 158-159

"Obesity Drug Pipeline Not So Fat," *Science* 7 February 2003 299: 849-852

"Having It All," *Science* 7 February 2003 299: 850

"Pot-Bellied Mice Point to Obesity Enzyme," *Science* 7 December 2001 294: 2071-2072

"Is Leptin a 'Thrifty' Hormone in Muscle and Fat?" *Science* 10 October 2001 287: 1739-1740

"Fat Hormone Makes a Comeback," *Science* 2 November 2001 294: 979

"Enzyme Blocker Prompts Mice to Shed Weight," *Science* 30 June 2000 288: 2299-2300

"Tracing Leptin's Partners in Regulating Body Weight," *Science* 10 March 2000 287: 1738-1741

"Leptin Not Impressive in Clinical Trial," *Science* 29 October 1999 286: 881-882

"Eat All You Want, but Fidget," *Science Now* 7 January 1998

"From Fat-Free Mice, the Skinny on Diabetes," *Science* 23 October 1998 282: 604

"Uncoupling Proteins Provide New Clue to Obesity's Causes," *Science* 29 May 1998 280: 1369-1370

"Leptin's Other Hormonal Links," *Science* 7 February 1997 275: 752

"Obesity Sheds Its Secrets," *Science* 7 February 1997

**FOOD SCIENCE**

"Sweet as Pie," *New Scientist* 22 December 2001

**Publications:  
Articles**

**IMAGING**

"Gene Scenes," *Scientific American* August 2000, 20

"Biologists Get Up Close and Personal with Live Cells," *Science* 27 June 1997  
276: 1988-1990

**CHEMISTRY**

"A Chemistry Set for Life," *Nature* 21 Sep 2000 407: 282-284

"Antisense has Growing Pains," *Science* 27 October 1995 270:575-577

**SPINA BIFIDA**

"A Lifesaver: Children's Memorial Pioneer Works to Solve the Mystery of Spina Bifida," *Chicago Tribune Tempo* 20 July 1994.

**NEUROBIOLOGY AND THE BRAIN**

"Educational Research Big Plans for Little Brains," *Nature* 2005 435, 1156-1158

"Rhythm of Life," *New Scientist* 04 August 2001

"Trigger Found for Synapse Formation," *Science* 9 June 2000 288: 1718-1719

"Hoge, Bears Await Report by Specialist," *Chicago Tribune* 12 October 1994

"Experts: Hoge's Prognosis Unclear: Concussion Force Him to Retire," *Chicago Tribune* 18 October 1994

"Heard of the 250-Pound Gorilla in Brain Surgery? It's No Joke," *Chicago Tribune* 22 December 1994

"Medics Warn Foreman: Use Your Head - And Save It," *Chicago Tribune*  
8 November 1994

**GENERAL HEALTH**

"Different Cues Key to Mating Game," *Chicago Tribune* 15 July 1994

"Sex in America: What the University of Chicago Survey Says," *Chicago Tribune*  
9 October 1994

"Generation X is not Generation Sex," *Chicago Tribune* 9 October 1994

"Regardless of Surface, Injuries are Practically Unavoidable," *Chicago Tribune*  
9 December 1994

"Easing Future Shock: New Football Gear May Cut Injuries," *Chicago Tribune*  
9 December 1994

"Emotional Crises Found to Trigger Depression," *Chicago Tribune* 7 November  
1009

"When Holidays are Over, Alcohol Problems Linger Like Unwanted Guests,"  
*Chicago Tribune* 31 December 1994

**Publications:  
Articles**

**NOBEL PRIZES**

"Eyes on the Prize," *Nature* 11 Oct 2001 413, 560 - 564

"Ten Get Call to Stockholm," *Science* 18 October 1996 274: 345

**EVOLUTION**

"Evolution critics seek role for unseen hand in education," *Nature* 21 Mar 2002 416, 250

"The Evolutionary War," *Howard Hughes Medical Bulletin* September 2002 24-27

"Bones, Molecules? or Both?" *Nature* 20 July 2000 406: 230-233

"Scientists Report Finding Earliest Creature to Invade Land," *Seattle Times* 29 July 1994

"If Alligators are Right, Dinosaur Theory a Crock," *Chicago Tribune* 29 October 1994

**WOMEN'S HEALTH**

"Opening Eyes: Oberlin Alumni Takes on Estrogen," *Oberlin Alumni Magazine* Spring 2004 23-27

"The Graceful Change," *The Yoga Journal* December 2003 103-111

"Estrogen: Key Player in Heart Disease Among Women," *Science* 11 August 1995 269: 771-773

"New Technique to Aid Fertility Lets Sperm Hitch a Ride," *Chicago Tribune* 23 October 1994

**CHILDREN'S HEALTH**

"How to Be Smart About Your Child's Medication," *Child* August 2006 87-90, 116

"FDA Finds IPECAC's Risks Outweigh Benefits," *Boston Globe* 1 July 2003

"Poison Pointers," *Child* October 2003 22

**MATEHMATICS IN POPULAR CULTURE**

"Grand Design: the Mathematics of Zen Gardens," *The Yoga Journal* May/June 2003, 33

"Traffic Paradox: More Expressway Lanes Only Add to Jam," *Chicago Tribune* 1 October 1994