

## Richard Robinson

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### Education

BA, 1977 Antioch College, Yellow Springs OH  
Major: Biology

### Work (Chronological)

1995 to present: **Freelance Science Writer and Editor**

**Skills include:** Writing (research news, meeting reports, essays, books, ghostwriting); Editing (rewriting, line editing, editor-in-chief), project management

**Areas include:** neurology and neuroscience, genetics and genomics, general medicine, botany, cell biology, molecular biology, biochemistry, high school science

**Clients include:** Individual scientists and physicians, Advagen, American Academy of Family Physicians, American Academy of Neurology, Arizona Cancer Center, BioScience, Biotechnology Institute, Burston Marsteller, CBS-Healthwatch, CNS News, Dana Press, Elan Pharmaceuticals, Fight/SMA, Gale Group, Harcourt College Publishers, MacMillan Reference USA, Mosby Consumer Health, Medtronic, Muscular Dystrophy Association, Lancet, Lancet Neurology, Nature, Neurology Reviews, Neuropsychiatry Reviews, Neurology Today, Parkinson's Disease Foundation, Pharmacia, Public Library of Science, Saunders Allied Health, SchwarzPharma, Science Now, The Genomics Institute, The Scientist, WE MOVE, Worth Publishers

1996-1997: Staff science writer, Muscular Dystrophy Association, Tucson AZ

1981-1996: High school science teacher, Commonwealth School, Boston MA

Courses taught: Introduction to Biology, Advanced (AP) Biology, Biology Seminar, Research Methods, Introduction to Chemistry, Advanced (AP) Chemistry, Special Topics in Chemistry, Introduction to Physics, Algebra I, Algebra II, Geometry, Pre-Calculus, Introduction to Calculus

1980-1981: High school science teacher, Scituate High School, Scituate MA

Courses taught: Introduction to Chemistry, Coastal Geology

1978-1980: Lab Preparations Chemist, Wellesley College, Wellesley MA

### Published Works and Projects (Topical)

#### *College and High School Science*

- **Editor-in-Chief**, Robinson R. *Plant Sciences*. MacMillan Library Reference, 2000.  
A four-volume encyclopedia of botany for high school students.

**Author** of these entries:

Augustine de Candolle  
Botany

Nathaniel Britton  
Cannabis

Herbicides  
Human Impacts

Hydroponics  
Kudzu

Peat Bogs  
Photosynthesis

Poison Ivy

- **Editor-in-Chief**, Robinson R. *Biology*. MacMillan Library Reference, 2001

A four-volume encyclopedia of biology for high school students.

**Author** of these entries:

Alternation of Generations  
Antibodies in Research  
Arthropod  
Beer  
Biogeochemical Cycles  
Blood Clotting  
Blood  
Botanist  
Buffon, Comte de  
C4 and CAM Plants  
Coffee  
Darwin, Charles  
De Saussure, Nicolas  
Doctor  
Gene Therapy  
Genetic Diseases  
Grains  
Gray, Asa  
Hormones  
Humboldt, Alexander von

Ingenhousz, Jan  
Insect  
Lamarck, Jean-Baptiste  
Leakey Family  
Linnaeus, Carolus  
Medical Assistant  
Model Organisms in Cell Biology and Genetics  
Monocots  
Nitrogen Cycle  
Nitrogen Fixation  
Nurse  
Pasteur, Louis  
Pituitary Gland  
Plant  
Poisons  
Torrey, John  
Vacuole  
Van Helmont, J.B.  
Vavilov, Nikolai  
Wine

- **Editor-in-Chief**, Robinson R. *Genetics*. MacMillan Library Reference, 2002

A four-volume encyclopedia of genetics for high school students

**Author** of these entries:

Androgen Insensitivity Syndrome  
Antisense Nucleotides  
Cell  
Crick, Francis  
Delbruck, Max  
Development  
DNA Structure and Function, History of  
Eubacteria  
Gene Evolution  
Hardy-Weinberg Equilibrium  
High-Throughput Screening  
Immune System Genetics

Imprinting  
Inheritance Patterns  
Mass Spectrometry  
Mendel, Gregor  
Molecular Anthropology  
Morgan, T.H.  
Mutagens  
Purification of DNA  
RNA Interference  
RNA Polymerases  
Transcription Factors  
Watson, James

- **Author**, “So You Want to Make a Plant-Made Pharmaceutical”, *Your World*, Fall 2003
- **Author**, Web-based tests and other supplementary material for Tobin and Dusheck, *Asking About Life*, 2nd edition (<http://www.harcourtcollege.com/lifesci/aal2e/>)
- **Associate Editor**, Robinson R. *World of Chemistry*. Gale Research, 2000
- **Author**, “Plants and People,” fifteen essays for Raven P, Evert R, Eichhorn S. *Biology of Plants*, 6th ed. New York: Freeman-Worth, 1999.
- **Editorial consultant**, *Modern Biology*. Holt, Rinehart & Winston 1999.

### ***General Medicine for Professionals***

- S Sommer, R Warekois, R Robinson. *Phlebotomy: A Work Text*. Philadelphia: Saunders, 2001  
A textbook of phlebotomy for the training of health care professionals
- R Robinson. *Ocular Anatomy and Physiology*. Whole Systems International and Alcon International, 1996  
A textbook of anatomy and physiology of the eye for pharmaceutical sales representatives
- Author and editor of numerous training manuals, tests, and ancillary materials for pharmaceutical sales representatives, in ophthalmology, neurology, gastroenterology, allergy, and oncology

### ***General Medicine for Patients and Consumers***

- Contributing Author: Gale Encyclopedia of Medicine, Gale Research, 1998
- Contributing Author: Mosby Online Encyclopedia of Consumer Health, Mosby Consumer Health, 1997

### ***Science for Professionals***

- Research article synopses for Public Library of Science Biology 2004 to present
- “RNAi Therapeutics: How Likely? How Soon?” PLoS Biology, January 2004
- “fMRI Beyond the Clinic: Will it ever be ready for prime time?” PLoS Biology, June 2004
- “We Found the Gene! Huntington’s Disease After the Cheering” *Cerebrum*, 2003;5(1):33-46
- Research updates for The Scientist web site (<http://www.biomedcentral.com/news/>), 2003
- “Research Updates: From the annual meeting of the American Society for Cell Biology” **BioScience**, 2000;50(5):395-399

### ***Manuscript Editing and Rewriting***

Editing, rewriting, and ghostwriting for both non-English speakers and native English speakers. 1996-2003

### ***Neurological Movement Disorders for Professionals***

**WE MOVE** (Worldwide Education and Awareness for Movement Disorders).

- Medical Writer and Project Manager, responsible for physician and patient education materials in Parkinson’s disease, spasticity, and other movement disorders. Projects include Continuing Medical Education, teaching slides, web pages, journal supplements, monographs. Major projects:
- E-MOVE. Editor and writer of this e-mail newsletter of new research in movement disorders. I summarize 3-4 research papers and conference presentations each month for a readership of almost 6000

physicians and patients. To date, I have published over 600 issues. Archives at <http://www.mdvu.org/emove/>

- Parkinson's disease teaching slide set, editor. CME Project. [http://www.wemove.org/par\\_mss2.html](http://www.wemove.org/par_mss2.html)
- Spasticity web pages, editor and writer. [http://www.wemove.org/par\\_minf.html](http://www.wemove.org/par_minf.html)
- Spasticity teaching slide set, editor. CME project. [http://www.wemove.org/spa\\_mss2.html](http://www.wemove.org/spa_mss2.html)
- The Role of Chemodenervation in Spasticity Management (video), medical editor. CME project. [http://www.wemove.org/spa\\_chemvid.html](http://www.wemove.org/spa_chemvid.html)
- Spasticity: Etiology, Evaluation, Management, and the Role of Botulinum Toxin Type A, (Muscle & Nerve, Supplement 6 1997; revision 2002), medical editor
- Scientific and Therapeutic Aspects of Botulinum Toxin, Brin et al. Lippincott, Williams, & Wilkins, 2002. Project Manager, editor.

### ***Neurological Movement Disorders for Patients***

**WE MOVE** (Worldwide Education and Awareness for Movement Disorders).

- Spasticity [http://www.wemove.org/spa\\_pat.html](http://www.wemove.org/spa_pat.html)
- Parkinson's disease [http://www.wemove.org/par\\_pat.html](http://www.wemove.org/par_pat.html)
- Corticobasal Degeneration <http://www.wemove.org/cbd.html>
- Dystonia <http://www.wemove.org/dys.html>
- Progressive Supranuclear Palsy <http://www.wemove.org/psp.html>

### ***Neuromuscular Disease for Professionals***

**Muscular Dystrophy Association.**

- Breathe Easy: Options for Respiratory Care (video), writer <http://www.mdausa.org/publications/Quest/q55breathe.html>
- A Breath of Fresh Air: Assisted Ventilation (video), writer <http://www.mdausa.org/publications/Quest/q56freshair.html>

### ***Neuromuscular Disease for Patients***

**Muscular Dystrophy Association**

- *Polymyositis/Dermatomyositis* <http://www.mdausa.org/publications/fa-myosi.html>
- *Friedreich's Ataxia* <http://www.mdausa.org/publications/fa-fried.html>
- *Myasthenia Gravis* <http://www.mdausa.org/publications/fa-mg.html>
- *When A Loved One Has ALS: A Caregiver's Guide* <http://www.mdausa.org/publications/alscare/index.html>
- "The Body at War with Itself" <http://www.mdausa.org/publications/Quest/q43autoi.html>
- "The Body at War with a Cure: Gene Therapy" <http://www.mdausa.org/publications/Quest/q44immune.html>
- "What Ails Ya: Diagnosis of Neuromuscular Disease" <http://www.mdausa.org/publications/Quest/q42ails.html>
- "Scoliosis Surgery"

<http://www.mdaua.org/publications/Quest/q41scoliosis.html>

### ***General Neurology for Professionals***

from **Neurology Reviews** (<http://www.neurologyreviews.com/main.html>)

- "Huntington's Disease: Do the Benefits of Genetic Testing Outweigh the Risks?" October 1998
- "How Clinically Meaningful Are Surgical Benefits for Patients with Parkinson's Disease?" November, 1998
- "New Research on the Ketogenic Diet" December 1998
- "Is the Time Right for Transplantation in Huntington's Disease?" February 1999
- "Institutionalization and Mortality in Parkinson's Disease" February 1999
- "Neuroleptics are Often the Suspects in HIV Movement Disorders" April 1999
- "New Directions in Magnetic Resonance Imaging Methods" May 1999
- "The Complexity of Complex Regional Pain Syndrome" June 1999
- "Neural Plasticity Following Brain Injury" September, 1999
- "The Persistent Biological Consequences of Early Untoward Life Events" September 1999
- "Dementia and Normal Aging in the Very Old" October 1999
- "New Strategies for Delaying Motor Complications in Parkinson's Disease" November 1999
- "Cannabinoids in Movement Disorders" November 1999
- "Inflammation in Parkinson's Disease" December 1999
- "Imaging May Be the Best Means of Tracking Neuroprotection" January 2000
- "Yesterday's Toxin, Today's Treatment--A Host of New Uses?" January 2000
- "Are clinical trials of antidepressants in the elderly too long?" July 2000 (Neuropsychiatry Reviews)
- "Movement Disorders in Children: Frequently Disabling, Often Treatable" March 2001
- "Depression: A Common but Treatable Problem in Parkinson's Disease" November 2001
- "The Five Ws of Parkinson's Disease Surgery: Who, What, When, Where, and Why" November 2001
- "Tremor, Ataxia, and Dementia: An Expanding Role for FMR1 in Neurological Disease" 2003
- "Lowering the Risk of Tardive Dyskinesia with Atypical Antipsychotics" 2003
- "Is Welding a Risk Factor for Parkinson's Disease?" 2004
- "SCA-1: A Rare Disease That Offers Widely Applicable Insights," 2004
- "Designing Neuroprotective Trials in Parkinson's Disease: Pitfalls Prospects, and Proposals," 2004
- "The Future of Cell Transplant Therapy in Parkinson's Disease," 2004
- "Is It Time for a Unified Theory of Parkinson's Disease?," 2004
- "Depression in Parkinson's Disease: Common and Confounding," 2004
- "Overcoming Inhibition is the Key to Spinal Cord Regeneration," 2004
- "GDNF Fouls Out ," 2005
- "Gene Microarrays: From Single Genes to Networks to Drug Targets," 2005
- "Successful Clinical Trials in Neuromuscular Disease Require the Right Outcome Measure," 2005
- "Pyridostigmine for Baroreflex Failure: A Promising Alternative," 2005
- "RNA Interference," 2005
- "Repetitive Behaviors and Levodopa Abuse in Parkinson's Disease," 2005
- "What's in the Pipeline for Parkinson's Disease?" 2005
- "New Data on the Newest PD Gene," 2005
- "Parkinson's Dementia Tracks Motor Impairment, But Can be Treated," 2005
-

from **Neurology Today** (<http://www.neurotodayonline.com/>)

- “Viral Factors Explored in Etiology of Parkinson Disease” Sept/Oct 2001
- “Gene Therapy is Evolving as Approach to Peripheral Neuropathies” Sept/Oct 2001
- “Muscular Dystrophies: New Findings Signal a Greater Complexity” Sept/Oct 2001
- “Atypical Antipsychotics Useful for Treating Symptoms in Parkinson Disease” Nov/Dec 2001
- “Stroke Strikes as a Global Burden” Nov/Dec 2001
- “The Neurobiology of Emotion: Feeling the Way Toward a Map of the Emotions” January 2002
- “Fetal Transplantation Found Risky for Huntington Disease” March 2002
- “How to Deal With Somnolence and Sleep Attacks in Parkinson Patients” March 2002
- “Age-at-Onset Gene Linked for Parkinson Disease and Alzheimer Disease” June 2002
- “On Biochemical Terrorism: Neurologists on the Front Lines Need to be Prepared” June 2002
- “Clinical Applications of Stem Cells are Nearing Reality, Says Leading Neuroscientist” June 2002
- “New Data in on Detection, Progression, and Treatment of Huntington Disease” July 2002
- “Studies Confirm Promise of Deep Brain Stimulation for Parkinson Disease” July 2002
- “Higher Dose, Higher Frequency Improves Interferon Treatment for MS” August 2002
- “Fetal Transplant Study Results Prompt Call for Halt to Future Trials” January 2003
- “The Best Surgery Options for Cerebral Palsy Spur Heated Debate” January 2003
- “Rapid-Paced Genetic Discoveries Help Unravel the Pathogenesis of Myotonic Dystrophy” January 2003
- “Levodopa: Neurotoxic? Neuroprotective? None of the Above?” February 2003
- “Deep Brain Stimulation: Experts Debate Related Neuropsychological Risks” February 2003
- “Medical Privacy in the Information Age”
- “Parkinson Trials: Neuroimaging Data, Often at Odds with Clinical Evidence, Deserves a Closer Look” March 2003
- “Slowed Axonal Transport Identified in Motor Neuron Disease” May 2003
- “A Ubiquitous Gene, A Delimited Disease, A Surprising Discovery” July 2003
- “Restless Legs Syndrome: Its Impact is High, but Dopamine Agonist Treatment is Effective” September 2003
- “Closing in on 10q: Is a Major New Alzheimer Gene in Sight?” November 2003
- “RNA Repeats Its Role in New Disease” December 2003
- “ALS: It Takes a Neighborhood” December 2003
- “Paraneoplastic Degenerations and RNA Binding Proteins: New Clues to Pathogenesis,” 2004
- “Defects in Retrograde Neurotrophic Factor Transport Are Important in Neurodegenerative Disease,” 2004
- “Chemokines: The Nervous System Used Them First,” 2004
- “Repair Defects, Glycosylation are the Key to Many Muscular Dystrophies,” 2004
- “GDNF for Parkinson’s Disease: Just How Good Is It?” 2004
- “Genetic Risk Factors in Parkinson’s Disease,” 2004
- “From Molecules to Memory,” 2004
- “Parkin and Ataxin-2: Together They Pose new Questions for Neurodegenerative Diseases,” 2004
- “Rett Syndrome: A New Range of Phenotypes Described in Wartenberg Lecture,” 2004
- “Controversies in Parkinson’s Disease Treatment,” 2004
- “Imaging Endpoints for Diagnosis and Disease Progression in Parkinson’s Disease,” 2004
- “New Interest in MAO Inhibitors for Parkinson Disease,” 2004

- “Psychogenic Movement Disorders Are Difficult to Diagnose, Difficult to Treat,” 2004
- “Refining the Understanding of Peripheral Neuropathies Can Ultimately Improve Treatment,” 2005
- “New Prion Assay Finds Them Throughout the Brain,” 2005
- “Neuronal Progenitor Cells: Overturning Dogma and Optimizing Therapy,” 2005
- “New Immune Systems for Old: Regenerating the Immune System in Autoimmune Neurologic Diseases,” 2005
- “SMA Update: Two Genes, One Critical Protein, and a Pilot Project from NINDS,” 2005
- “HIV Neuropathy,” 2005
- “Ozone-Sparing Solvent Linked to Neurologic Damage,” 2005
- “Copper Deficiency Myeloneuropathy: Risk from Gastric Surgery, Looks Like B12 Deficiency,” 2005
- “SWEDDs and the Role of Imaging in the Parkinson’s Disease Diagnosis,” 2005

from **The Lancet**

- “Green Tea Extract May Have Neuroprotective Effect in Parkinson’s Disease” August 4, 2001 (2001;358:391)

from **The American Academy of Neurology**

- Press releases for major papers and presentations on West Nile virus, autism, stroke therapy, Parkinson’s disease, and scientific highlights from the Annual Meeting (2003, 2004, 2005)

### ***Corporate Communications***

- Development brochures for The Genomics Institute, 2003
- Scientific background materials for venture capital proposals. Advagen, 2003

### ***Grant Writing and Project Management***

Coordinated a 500-page, ten-million dollar grant application for the Arizona Cancer Center. The grant was to fund a Specialized Program in Research Excellence in pancreatic cancer from the National Cancer Institute. The grant comprised ten individual projects and core resources, with twenty principal investigators. In only ten weeks, I coordinated and edited all submissions, wrote ancillary materials for various parts of the application, headed the development of the budget, and managed the entire internal review process to get the completed application out the door on time.

## **Memberships**

National Association of Science Writers  
 Movement Disorder Society

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