

# RYN MIAKE-LYE, PHD

33 Locust Avenue  
Lexington, Massachusetts 02421

781.799.9382  
Ryn@FromScratchToLast.net

## SUMMARY

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Generative leader with over 20 years of success growing expert innovation in life sciences and patient care. Track record of integrating multidisciplinary science with results-oriented management for pharmaceutical companies and academic health care systems. Strengths include:

- *Managing across* complex organizations for high-performance delivery
- *Aligning* and prioritizing big-picture vision with complex operations using science-driven criteria
- *Advocating* for knowledge exchange to make a difference now

## EMPLOYMENT EXPERIENCE

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**SCIENCEDRIVEN** An independent practice for growing expert innovation 2004-present

*Founder and Principal*

Selected project objectives include:

- Partner with Vanderbilt-Ingram Cancer Center on Personalized Cancer Medicine Initiative
- Champion excellent science, biologically inspired translation, multidisciplinary patient care and clinical innovation at the MGH Cancer Center
- Strategic planning and multimillion-dollar grant proposals for Partners Enterprise Research Infrastructure and Services (ERIS)
- Facilitate organizational development for Partners Research Ventures & Licensing
- Integrate launch of Systems-based Consortium for Organ Design and Engineering (SysCODE)
- Operating and resource plan for founding of Wyss Institute for Biologically Inspired Engineering
- Led site-wide assessment/offsite for major pharmaceutical to optimize their fully matrixed organization
- Authored programmatic annual Report to the Dean of multidisciplinary user facility

**HARVARD MEDICAL SCHOOL, DEPT OF BIOLOGICAL CHEMISTRY & MOL. PHARMACOLOGY** 2003-2004

*Ad hoc Strategic Programs; Lecturer, Biological Chemistry & Molecular Pharmacology*

- In 8 months, facilitated collection of 70 “blue sky” ideas and distillation into 17 team-written white papers that envisioned future collaborative science and technology for Harvard’s Allston campus.
- Partnered with Harvard Institute of Proteomics to build more strategic sponsored resources

**MILLENNIUM PHARMACEUTICALS, INC., Cambridge, MA** 1998 - 2002

*Chief of Staff to Interim Head of Development (2001-2002)*

- Managed Development Infrastructure Initiatives from concept to launch
- Staffed charter Development Leadership Team, comprising VPs of Clinical, Regulatory, Process Development, QA/QC, Preclinical, and Project Management

*Director, R&D Operations (2000-2002)*

- Designed and implemented monthly performance dashboard, Pipeline Report, for senior management
- Identified and tracked performance metrics meaningful for research, consistent company-wide, yet compatible with rapid change.

*Oncology Program Director (1998-2000)*

- Managed concurrent alliances in oncology with Lilly and Bayer. All deliverables on budget, on time, on target: 7 novel candidate genes, 4 validated targets to Lilly; >50 qualified targets to Bayer.
- Allocated resources, created program budget, and built relationships with collaborators and consultants, technology in-licensing, core research facilities, finance and legal departments.

**HARVARD MEDICAL SCHOOL, DEPARTMENT OF CELL BIOLOGY, Boston, MA** 1993 - 1998

*Director for Research & Administration; Lecturer, Cell Biology*

- Responsible for all phases of strategic, capital and operational management: Recruitment of 7 new faculty, planning/renovation of 60,000 sf, and building and leading an administrative team of 13.
- For new department with 30 laboratories and 250 members, launched and executed mandate for change, reporting to founding Chair, Marc Kirschner
- Delivered 50% increase in grant volume and allocated fairly and transparently \$3.5MM/year for new, sustainable research infrastructure.

### **CELL JOURNAL**, Cambridge, MA

1989 - 1993

#### *Reviews Editor*

- Teamed with founding Publisher & Editor-in-Chief (Benjamin Lewin) and Assistant Editor (Laurence Reid) to read every submitted manuscript, select reviewers, and make decisions about cutting-edge research articles across many fields, in alignment with vision explicated in Vol. 1 No. 1.
- Key scientific contributor to an independent, international journal that advocated for excellent research of interest to a wide readership.
- Represented Cell to research community. Identified emerging trends and novel concepts by networking with investigators, both locally and at selected workshops/meetings.
- Delivered for each bi-weekly issue at least 2 mini-reviews spanning a wide range of new ideas. Responsible for selecting mini-review topics, engaging mini-review authors, and managing mini-review production pipeline.

### EDUCATION

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**CALIFORNIA INSTITUTE OF TECHNOLOGY (CALTECH)** 1984 – 1989

*Postdoctoral Fellow “Functional Studies on G $\alpha$  Subunits” (Melvin Simon, advisor)*

**UNIVERSITY OF CALIFORNIA, SAN FRANCISCO (UCSF)** 1978 - 1984

*PhD in Biochemistry “Induction of Early Mitotic Events” (Marc Kirschner, advisor)*

**CALIFORNIA INSTITUTE OF TECHNOLOGY (CALTECH)** 1973 - 1977

*BSc in Biology, with Honors*

### AWARDS

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Thomas J. Watson Fellowship, *Ischia (NA) Italia* (1977-1978)

University of California, *Regent’s Fellowship* (1978-1979)

American Cancer Society, *Fellowship* (1985-1986)

American Cancer Society, California Division *Senior Fellowship* (1986-1988)

### COMMUNITY SERVICE

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Thomas J. Watson Fellowship, *Selection Committee Member* (2000-2001)

Recording for the Blind & Dyslexic, *Reader* (2001-2005)

Lexington United Soccer Club, *Youth Referee (In-town) Coordinator / Advocate* (2002-2008)

Planned Parenthood League of Massachusetts, *Board Member* (2007-2010)

Downtown Boston Rotary Club, *Board Member, Foundation Chair* (2011-present)

Build from Scratch to Last, *Founder and Principal* (2011-present)

Community Water Solutions, *Board Member* (2012-present)

### PUBLICATIONS

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Pao W, Kris MG, Iafrate AJ, Ladanyi M, Jänne PA, Wistuba II, **Miake-Lye R**, Herbst RS, Carbone DP, Johnson BE, Lynch TJ. (2009). Integration of molecular profiling into the lung cancer clinic. Clinical Cancer Research **15**:5317-5322.

Alberts, B. and **Miake-Lye, R.** (1992). Unscrambling the puzzle of biological machines: the importance of the details. Cell **68**:415-420.

Kumagai, A., Pupillo, M., Gundersen, G. R., **Miake-Lye, R.**, Simon, M.I., Devreotes, P. N., and Firtel, R. A. (1989). Regulation and function of G $\alpha$  protein subunits in Dictyostelium. Cell **57**:265-275.

Fong, H. K. W., Hurley, J. B., Hopkins, R. S., **Miake-Lye, R.**, Johnson, M. S., Doolittle, R. L. F., and Simon, M. I. (1986). Repetitive segmental structure of the transducin  $\beta$  subunit: Homology with the CDC4 gene and identification of related mRNAs. Proc. Nat’l Acad. Sci. **83**:2162-2166.

**Miake-Lye, R.**, and Kirschner, M. W. (1985). Induction of early mitotic events in a cell-free system. Cell **41**:165-175.

**Miake-Lye, R.**, Newport, J. W., and Kirschner, M. W. (1983). Maturation-promoting factor induces nuclear envelope breakdown in cycloheximide-arrested embryos of *Xenopus laevis*. Journal of Cell Biology **97**:81-91.

## CURRICULUM VITAE

**Name:** Ryn Miake-Lye **Updated October 2012**  
**Address:** Build From Scratch To Last Phone: (781) 799-9382  
33 Locust Avenue Fax: (800) 863-9019  
Lexington, MA 02421 Email: [Ryn@FromScratchToLast.net](mailto:Ryn@FromScratchToLast.net)

**Date of birth:** April 24, 1955 **Place of birth:** Milwaukee, WI

### Education:

1977 B.Sc. with honors, Biology, California Institute of Technology, Pasadena, CA  
1984 Ph.D., Biochemistry, University of California San Francisco Medical Center, CA

### PRIMARY APPOINTMENTS

1993-1998 Lecturer, Cell Biology, Harvard Medical School, Boston, MA  
2003-2004 Lecturer, Biological Chemistry & Molecular Pharmacology (BCMP), Harvard Medical School, Boston, MA

### OTHER PROFESSIONAL ACTIVITIES

1975-1977 Undergraduate research in lab of Leroy Hood, Caltech.  
Protein sequence comparison of surface and secreted IgM.  
1977-1978 Watson Fellow, Thomas J. Watson Foundation.  
Independent marine ecology field work, Ischia, Italy.  
1978-1984 Graduate research in lab of Marc Kirschner, UCSF.  
Induction of early mitotic events *in vivo* and *in vitro*.  
1984-1989 Postdoctoral research in lab of Mel Simon, Caltech.  
Functional studies of G $\alpha$  subunits.  
1989-1993 Reviews/senior Editor, Cell journal, Cambridge, MA  
1993-1998 Director for Research and Administration, Harvard Medical School, Dept of Cell Biology, Boston, MA  
1998-2000 Oncology Program Director, Millennium Pharmaceuticals, Cambridge, MA  
2000-2002 R&D Operations Director, Millennium Pharmaceuticals, Cambridge, MA  
2001-2002 Chief of Staff to Interim Head of Drug Development, Millennium Pharmaceuticals, Cambridge, MA  
2003-2004 *Ad hoc* project support for Harvard Institute of Proteomics, DF/HCC, Harvard Allston Initiative Task Force on Science and Technology  
2004- Founder and Principal, ScienceDriven, Lexington, MA

### ACADEMIC AND INDUSTRIAL INDEPENDENT ADVISORY ROLES

1995-1998 Consultant, Cancer Center External Advisory Board  
2002 Consultant, Center for Genome Research  
2003-2004 Consultant, Institute of Proteomics  
2003-2004 Consultant, University Science and Technology Task Force  
2003-2004 Consultant, Cancer Center Assay Development  
2004 Consultant, Center for Nanoscale Systems  
2005 Consultant, Hospital Research Administration  
2005-2007 Subcontractor, Consulting Firm to Pharmaceutical Institute and Healthcare Research Ventures & Licensing

2006	Consultant, Pharmaceutical Research Laboratories
2006-2008	Consultant, Systems-based Consortium for Organ Design & Engineering
2006-2008	Consultant, Institute for Biologically Inspired Engineering
2007-2008	Consultant, Vascular Biology Program
2007	Consultant, Institute for Global Health
2007	Consultant, Pre-Clinical Contract Research Laboratories
2007	Consultant, Biotechnology
2007	Subcontractor, Design Firm
2008-2010	Consultant, Massachusetts General Hospital Cancer Center
2009	Consultant, Healthcare Research Computing
2009	Consultant, University Libraries
2009	Consultant, Hospital Informatics Program
2009-2011	Consultant, Vanderbilt-Ingram Cancer Center, Nashville, TN

### AWARDS and HONORS

1977	B.Sc. with honors, Caltech
1978	Watson Fellow, Thomas J. Watson Foundation for independent study overseas
1985-1986	American Cancer Society postdoctoral fellowship
1986-1988	American Cancer Society, California Division, senior postdoctoral fellowship

### VOLUNTEER ACTIVITIES

2001-2005	Reader, Recording for the Blind & Dyslexic, Cambridge, MA
2002-2008	Youth (In-town) Referee Coordinator, Lexington United Soccer Club, Lexington, MA
2007-2010	Board Member, Planned Parenthood League of Massachusetts, Boston, MA
2011-present	Board Member, Downtown Boston Rotary Club, Boston, MA
2011-present	Founder and Principal, Build from Scratch to Last, Lexington, MA
2012-present	Board Member, Community Water Solutions, Lexington, MA

### PUBLICATIONS

1. **Miake-Lye R**, Newport JW, and Kirschner. MW Maturation-promoting factor induces nuclear envelope breakdown in cycloheximide-arrested embryos of *Xenopus laevis*. (1983) *Journal of Cell Biology* **97**:81-91
2. **Miake-Lye R** and Kirschner MW. Induction of early mitotic events in a cell-free system. (1985) *Cell* **41**:165-175.
3. Fong HKW, Hurley JB, Hopkins RS, **Miake-Lye R**, Johnson MS, Doolittle RLF, and Simon MI. Repetitive segmental structure of the transducin  $\beta$  subunit: Homology with the CDC4 gene and identification of related mRNAs. (1986) *Proc Natl Acad Sci USA* **83**:2162-2166.
4. Kumagai A, Pupillo M, Gundersen GR, **Miake-Lye R**, Devreotes PN, and Firtel RA. Regulation and function of G $\alpha$  protein subunits in Dictyostelium. (1989) *Cell* **57**:265-275.
5. Alberts B and **Miake-Lye R**. Unscrambling the puzzle of biological machines: the importance of the details. (1992) *Cell* **68**:415-420.
6. Pao W, Kris MG, Iafrate AJ, Ladanyi M, Jänne PA, Wistuba II, **Miake-Lye R**, Herbst R, Carbone D, Johnson B and Lynch TJ. Integration of molecular profiling into the lung cancer clinic. (2009) *Clinical Cancer Research* **15**:5317-5322.