

# Steven Munevar, Ph.D. MBA

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**Biosketch:** Multidisciplinary life science professional experienced in early stage technology assessment, strategic innovation planning, development, and commercialization.

- ❖ Multidisciplinary background spanning engineering, biomedical science, and business management
- ❖ Entrepreneurial approach to problem solving and thrives in evolving environments with competing priorities, diverse stakeholders, and complex deliverables
- ❖ LinkedIn: [www.linkedin.com/in/stevemunevar](http://www.linkedin.com/in/stevemunevar)

## Professional Experience

### **Munevar & Associates, Inc., Founder/ Principal Consultant, Cambridge MA (2007-Present)**

Munevar & Associates, Inc. is a virtual, boutique life science strategy consultancy focused on the development and commercialization of early stage innovations.

- Specifically, the goal is to couple scientific and technical expertise, with commercialization insight and perspective, toward supporting start-up companies in the life science space.
- Project highlights include (*selected*):
  - Intellectual property projects evaluating technology capabilities and developing claims for patent application submission.
  - Market analysis of life science areas such as regenerative medicine looking at technology capabilities, market opportunities, and competitive analysis, among others:  
<http://tinyurl.com/Stem-Cell-Technology>
  - Technology translation focused on the development and commercialization of novel research tools: <http://tinyurl.com/Munevar-Associates-Case-Study>

### **Helix Bioscience Institute-HBI, Founder/Board of Directors, Cambridge MA (2013-Present)**

The Helix Bioscience Institute-HBI is a virtual not-for-profit research initiative created to enable researchers to conduct transformative directed discovery and translational research employing a vast array of tools and resources.

- HBI seeks to bridge the gap between discovery and pre-clinical through the innovative application of large data sets, data mining, analysis tools, and optimized experimental outsourcing.
- HBI seeks to better align biomedical research and data science through educational and outreach programs toward the acceleration of therapeutics development addressing unmet (or poorly-met) healthcare need.

### **Science Shaping Our World-SHOW™, Founder/Advisory Board, Boston MA (2009-Present)**

Science Shaping Our World-SHOW is an ongoing seminar and networking series/marketing platform that focused cutting edge translational life science research and development.

- SHOW's mission is to provide a stage for innovation and technologies at the cutting edge of life science translation toward realizing application potential addressing unmet (or poorly-met) healthcare need.
- SHOW events draw together a multidisciplinary audience spanning academia, industry, investment, and government among others where they can gain exposure and insight into the life science advancements poised to change our world.

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## **Postdoctoral Research Fellow at Beth Israel Deaconess Medical Center, Boston MA (2006)**

Postdoctoral Research Fellow in the department of cardiology focused on cardiovascular regulation and signal transduction. My research worked toward elucidating a mechanism by which cardiovascular smooth muscle is regulated and the impact of its regulation on hypertension and vasospasm.

- Studied the role of Calcium Calmodulin-dependent Kinase II (CAMKII) signal transduction and the role it plays in the regulation of vascular smooth muscle tone maintenance.
- Clinical goal was to identify targets for the therapeutic regulation of blood pressure following cardiac bypass surgery in at risk populations (i.e. elderly, diabetics, others).

## **United States Army Reserve, Devens MA (1997)**

Multidisciplinary soldier spanning combat arms and technical intelligence analyst.

- Combat arms and light infantry training included significant team building as well as leadership opportunities requiring focus under pressure and the ability to dynamically multitask under changing conditions.
- Military Intelligence, technical intelligence analyst, position required extensive critical thinking, technical analysis of complex systems, and cross unit collaboration as well as the written and oral presentation of findings.

## **Quantum Corporation, Shrewsbury MA (1996)**

Research and development engineer working on the development of novel, automated, electro-deposition plating station and production processes for the clean room manufacturing of memory storage components.

- The primary project I led focused on transforming 3" diameter wafer photolithography electroplating process to a 6" modality.
- The outcome of my project was an automated 6" diameter wafer photolithography electroplating station and production process that significantly increased production output and quality of product produced.

## **Education**

### **M.B.A., Worcester Polytechnic Institute, Worcester MA (2005)**

Business management program with a focus on the commercialization of emerging technologies and innovations, market research, and commercial viability analysis.

- Capstone project focused on evaluating novel prototype software targeted for automated manufacturing production line development.
- Outcome of my capstone project resulted in a deep dive market analysis and product capabilities matrix (alongside competitor comparisons) that highlighted the strengths and weaknesses of the technology and created a roadmap for near term development that could lead to future successful commercialization.

### **Ph.D. in Biomedical Science, University of Massachusetts Medical School, Worcester MA (2003)**

Focused on the elucidation of mechanical signaling events underlying cell migration using novel flexible cellular substrate coupled with quantitative live cell fluorescence microscopy

- My research led to the development of a new way to visualize mechanical signaling and cell migration called *Traction Force Microscopy*.
- Further, my research resulted in several high-impact peer-reviewed publications and the significant advancement in our understanding of mechanical cell signaling.
- NIH Pre-doctoral Fellowship award recipient.

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## B.S. in Bioengineering, Western New England College, Wilbraham, MA (1995)

Applied principles of engineering towards biological systems, biomimetic materials, and biomedical devices.

- Senior Capstone Project focused on evaluating polymer gels as potential biomimetic materials for use in prosthetic limbs.
- Tau Beta Pi, National Engineering Honor Society member.

## Peer Reviewed Scientific Publications

- Liu S., Sardi S., Sonom B., Zocco D., McSweeney R., Fraser A., Halleck A., Li H., Smejkal G., **Munevar S.**, Jin J., Kawai T., Ghiran I., McGrath J., Whitman M., Ng S., and Kuo P. W. [Application of a Novel Nanovolume Capillary Electrophoresis-Based Protein Analysis System in Personalized & Translational Medicine Research](#). *J Bioanal Biomed* (2013) S3: 004.
- **Munevar S.**, Gangopadhyay S. S., Gallant C., Colombo B., Sellke F. W., and Morgan K. G. [CamKII T287 and T305 Regulate History-Dependent Increases in Alpha Agonist-Induced Vascular Tone](#). *Journal of Cellular and Molecular Medicine* (2008) Vol. 12, No 1 p. 1-8.
- **Munevar S.**, Wang Y. L., and M. Dembo. [Regulation of Mechanical Interactions Between Fibroblasts and the Substratum by Stretch-Activated Ca<sup>2+</sup> Entry](#). *Journal of Cell Science* (2004) Vol. 117 p. 85-92.
- **Munevar S.**, Wang Y. L., and M. Dembo. [Distinct Roles of Frontal and Rear Cell-Substrate Adhesions in Fibroblast Migration](#). *Molecular Biology of the Cell* (2001) Vol. 12 p. 3947-3954.
- **Munevar S.**, Wang Y. L., and M. Dembo. [Traction Force Microscopy of Migrating Normal and H-ras Transformed 3T3 Fibroblasts](#). *Biophysical Journal* (2001) Vol. 80. p. 1744-1757.

## Ph.D. Thesis

- Dissertation Title: Mechanics of Fibroblast Migration (2003).
  - <http://tinyurl.com/Thesis-PhD>

## White Papers

- Building a Biotech Start-up – A Case Study (2010).
  - <http://tinyurl.com/Munevar-Associates-Case-Study>
- Stem Cell Technology: Current Applications and Future Directions (2008).
  - <http://tinyurl.com/Stem-Cell-Technology>

## Invited Interviews (selected)

- **Accelerating Innovation through Convergence (2013).**
  - <http://blog.upstartlifesci.com/accelerating-innovation-through-convergence>
- **Temps, Lower Rungs Drive Local Biotech Job Creation (2010).**
  - <http://assets.bizjournals.com/boston/stories/2010/10/11/focus2.html>
- **Innovation in Life Science Technology Development and Commercialization (2010).**
  - [www.wpiventureforum.org/Images/CMS/VF/Vantage\\_FINAL\\_6-10.pdf](http://www.wpiventureforum.org/Images/CMS/VF/Vantage_FINAL_6-10.pdf)
- **Success With IPSCS-The Nascent Science Still Has Many Stumbling Blocks to Step Over Before Companies Can Reap the Rewards of Reprogramming (2009).**
  - <http://www.the-scientist.com/?articles.view/articleNo/27485/title/Success-with-iPSCs>