

**D. BENJAMIN BORSON, M.A., J.D., Ph.D.**  
**CURRICULUM VITAE**  
**January 13, 2014**

**DISCLAIMER**

The information contained in this Curriculum Vitae is for informational purposes only, and does not imply or guarantee that any future or current legal representation will produce similar results.

**EXECUTIVE EXPERIENCE**

Founder and President, Borson Law Group, PC, Intellectual Property Law Practice  
Adjunct Professor of Law, Golden Gate University School of Law  
Past Member, Patent Public Advisory Committee, USPTO  
Chair, Business Law Corporate Counsel Section, Contra Costa County Bar Association  
Chair, Legislation Interest Group, IP Law Section, State Bar of California  
Co-Chair, Patent Law Subcommittee on Patentability, AIPLA  
Member, New Zealand Biotechnology Organization  
Past member of the Executive Committee, Intellectual Property Law Section, State Bar of California; member of IP and International Law Sections  
Past Co-Chair, Council of State Bar Sections  
Founder and Past President, BioScience Forum  
Past Chair, Northern California Pharmaceutical Discussion Group  
Past Principal Investigator, NIH Grant-Funded research program in basic biomedical research  
Past President, Buchanan Flying Club  
Past President, Bay Flute Club  
President, Amphion Club

**LEGAL EXPERIENCE**

Intellectual Property. Develop and implement business-focused U.S. and foreign IP strategies. Advise clients regarding requirements of patentability, scientific and legal strategies for supporting patent applications, trade secrets, licensing and trademark applications. Advise clients regarding domestic and international intellectual property implications of business decisions, licensing, contracting and litigation.

Scientific Consultation: Experimental design and implementation; evaluation of methods and results. Medical therapy and therapeutic standards in physiology, pharmaceuticals, molecular diagnostics and genetic markers of disease

Patent Drafting: Drafting and filing provisional and utility patent applications, PCT and non-PCT foreign patent applications. Drafting patents relating to therapeutics including antisense, immunology, analytical methods, pharmaceuticals, bioinformatics, chemicals,

medical devices, medical and semiconductor polymers, manufacturing processes, methods of use, semiconductor processing equipment for polymer deposition and manufacture, organic and inorganic chemistry, superconductors, information technology and software, oncogenes, nucleic acids, oncogene products; methods of use: immunoassays, antisense and antibody therapy, diagnostic methods, mechanical inventions, consolidation of applications and claim drafting.

Patent Prosecution: Biotechnology, chemical, pharmaceutical, bioinformatics, software, medical device, immunological, mechanical, superconductivity and semiconductor patent prosecution: drafting amendments relating to cellular uptake, efficacy of antisense nucleotide therapeutics, bio-polymer chemistry, semiconductors, medical chemistry. Preparation of Information Disclosure Statements. Drafting declarations and petitions supporting patentability. Drafting Opposition documents for foreign prosecution. Consultation with foreign associates. Over 100 patents issued

Legal Opinions: Research and preparation of legal opinions regarding joint ventures, non-infringement and invalidity; due diligence analysis of patent applications, patents and patent portfolios.

Contracts and Licensing: Negotiate and draft purchase and resale agreements, confidentiality agreements, employee agreements, consulting agreements, technology transfer and licensing agreements. Evaluation of technical and legal services and due diligence. Over 50 Licenses and Agreements and 12 validity or non-infringement opinions prepared.

Trademarks: Drafting, prosecution, and maintenance of trademark and service mark applications and registrations in United States and in foreign countries.

Dispute Resolution: Legal research and analysis, preparing motions and memoranda of points and authorities, filing court documents, court appearances, mediation and arbitration; draft cease and desist letters.

Client Development: Develop life sciences and high-technology practice. Meet with prospective clients, discuss intellectual property strategies and services, develop and implement intellectual property strategies. Portfolio of current clients includes immunology, bioinformatics, oncology, superconductors, pharmaceuticals, diagnostics, phototherapy, molecular diagnostics and assay development.

Public Service: Develop and present lectures on Legal, Business and Scientific matters for U.S. and foreign clients; provide and coordinate input to legislative and agency rule-making processes. Past member Patent Public Advisory Committee of the USPTO; past member of IP Section Delegation to Washington DC and the USPTO. Organize Educational Symposia on Science, Technology and Law. Member, American Intellectual Property Law Association Patent, International Law and Biotechnology Committees. Co-Chair, AIPLA Patent Sub-Committee on Section 101, Co-Chair Patentability

Subcommittee. Chair, Business Law Corporate Counsel Section, Contra Costa County Bar Association.

Training Associates and Staff Supervise attorneys, staff and interns in drafting and prosecution of patent applications, trademarks and trade secrets world-wide, patentability and infringement opinions, firm practices and USPTO practices.

## REPRESENTATIVE CLIENTS

<b>Company</b>	<b>Technology</b>
Quantum Polymer Corporation Canon USA, Inc.	Chemistry, Nanotechnology and Advanced Materials Advanced Materials, Semiconductor Manufacturing and Tools Design
Advanced Technology & Materials, Inc.	Chemistry, Nanotechnology, Advanced Materials and Semiconductor Manufacturing
Array Bioscience Corporation Neuren Pharmaceuticals Limited Perseis Ltd. Pacific Edge Ltd.	Chemistry, Nanotechnology and Instrumentation Biotechnology, Chemistry and Pharmaceuticals Antibody Therapeutics and Diagnostics Genetic Markers, Testing, Diagnostics, and Bioinformatics
PrognosDx Biophysica, Inc. Alpha Golf, Inc. Photomed Technologies, Inc. Fisher and Associates Otago Innovation Ltd. Immune Solutions Ltd. MSM Protein Technologies DNP Pharmaceuticals GNI Ltd. Cellular Technology Limited FzioMed Inc. Advanced Microdevices Simpson Strong-Tie Company True Light Technologies, Inc. ADC2 Technologies, LLC. Salesforce.com University of California	Molecular Diagnosis and Prognosis Organic Chemistry and Pharmaceuticals Medical Devices, Systems Engineering and Therapeutics Medical Devices and Therapeutics Medical Diagnosis and Treatment Molecular Biology, Pharmaceuticals Vaccines Immunology, Antibody Therapeutics Biotechnology and Nucleic Acid Therapeutics Biotechnology and Bioinformatics Biotechnology and Diagnostic Instrumentation Biotechnology; Medical Devices Semiconductor Manufacturing and Chemistry Construction Audiovisual Software Video Compression and Decompression Information Technology Peptide Therapeutics

## EMPLOYMENT IN THE LAW

2010-	<b>Adjunct Professor of Law, Golden Gate University School of Law</b>
2009-2012	<b>Member, Patent Public Advisory Committee, United States Patent and Trademark Office</b>
2006-	<b>Founder and President, Borson Law Group, PC</b>



## **PROFESSIONAL ORGANIZATIONS**

BioScience Forum (Founder and Past President)  
Northern California Pharmaceutical Discussion Group (Past Chair)  
Member, Patent Public Advisory Committee (PPAC), USPTO (2009-2012)  
State Bar of California  
    Professional Liability Insurance Availability and Affordability Working Group  
    Council of Sections Advisor (2005-2006)  
    Council of Sections (Co-Chair 2004-2005)  
    Council of Sections (Co-Vice Chair 2003-2004)  
    Intellectual Property Section  
        Legislation Committee (Chair 2006-)  
        Council of State Bar Sections IP Representative (2004-2008)  
        Executive Committee (2001-2004)  
        Patent Standing Committee (1999- )  
        Special Commission on Proposed USPTO Rules (Chair)  
    Board of Governor's Task Force on Sections (Section Representative 2004-2006)  
    IP Section Delegate, Conference of California Bar Associations (2007-)  
Am. Intel. Prop. Law Assoc. Biotechnology, International law and Patent Committees,  
    Co-Chair, Patent Subcommittee on Section 101.  
    Co-Chair, Patentability Subcommittee (2011-)  
    Co-Chair, Patent Policy Subcommittee (2014-)  
Contra Costa County Bar Association, Chair, Business Law Corporate Counsel Section (2011-2013), Treasurer (2014-)  
Federal Circuit Bar Association (past)  
San Francisco Intel. Prop. Law Assoc. (past)  
Federated Association of Societies for Experimental Biology (past)  
American Lung Association (past)  
American Physiology Society (past)  
American Association of Cell Biologists (past)  
American Chemical Society (past)  
American Association of Pharmaceutical Scientists (past)

## **PROFESSIONAL DEVELOPMENT**

Originated and maintained legal practice relating to life sciences, chemistry, semiconductor manufacturing, copyright, IP counseling and IP transactions, in pharmaceuticals, analytical instrumentation, biotechnology, genetics, information technology, bioinformatics, immunology, diagnostics, therapeutics, superconductive materials and semiconductor processing.

## LEGAL PUBLICATIONS

- Craig, A.G and *Addressing Unfair Litigation Practices in Patent Law*,  
Borson, D.B. New Matter 38(4):19-23 (Winter 2013)
- Borson, D.B. *Sunovion v. Teva and Dr. Reddy's*, Biotech Buzz AIPLA November 2013
- Borson, D.B. *Biogen v. GSK* Biotech Buzz, AIPLA. June 2013
- Borson, D.B. Avoiding Disputes, Keep the Litigants Out of It. Contra Costa Lawyer,  
August 1, 2012.
- Borson, D.B. The Leahy-Smith America Invents Act of 2011: Section 3 of the AIA.  
D. Eastham New Matter, 37(1):11-21 (2012).
- Borson, D.B. The Leahy-Smith America Invents Act of 2011: An Introduction. New  
D. Eastham New Matter, 36(4): 5-24 (2011).
- Borson, D.B. Analysis and Opinion Patent Reform Act of 2009. New Matter, (2009)
- Borson, D.B. Report of the Legislation Committee: Proposed Legislation on Patent  
Reform and IP, New Matter (2009).
- Borson, D.B. U.S. Patent Practice for Paralegals: HalfMoon LLC. 2008.
- Borson, D.B. Report of the Legislation Committee: USPTO Final Rules on Claims and  
Continuations. New Matter 32(3):44-57 (2007).
- Borson, D.B. *KSR v. Teleflex, Inc.: The Supreme Court Reviews Obviousness*. J. Patent  
and Trademark Office Society 89(7):523-544 (2007).
- Borson, D.B. *KSR v. Teleflex, Inc.: The Supreme Court Reviews Obviousness*. New  
Matter 32(2): 11-39 (2007).
- Borson, D.B. *LabCorp v. Metabolite: Legal and Scientific Terminology: An Example of  
Poor Correlation*. New Matter, 31(3):31-43 (2006).
- Borson, D.B. *Proposed Rules for Patent Practice: Continuations and Claims*. New  
Matter 31(2): 16-20 (2006).
- Borson, D.B. *Intellectual Property Strategies in the Life Sciences: Introduction to  
Biotechnology Patents*. IBC Life Sciences, Inc. (November 2003).

- Borson, D.B. *Current Status of U.S. Patent Law*. In Intellectual Property Practice for Paralegals. Half Moon Seminars, LLC. Eau Claire, WI, 11-1- I50 (2003).
- Borson, D.B. *Doctrine of Equivalents in Light of the Supreme Court's Decision in Festo: Law and Equity in Intellectual Property*. New Matter, 27(2/3): 9-10, 36-43, (2002).
- Borson, D.B. *Intellectual Property Protection in High Technology Industries: &S.R.Meyer: Trade Secrets, Patents, and Ethics*. State Bar of California Convention, September 7, 2001.
- Borson, D.B. *State Immunity from Federal Patent and Trademark Laws, Part II*. New Matter, 26(1-2):5-10 (2001).
- Borson, D.B. *Protecting Inventions in Combinatorial Chemistry* Cambridge Healthtech Institute Symposium on Exploiting Molecular Diversity Refining Small Molecule Libraries February 12-14, 2001
- Borson, D.B. *State Immunity from Federal Patent and Trademark Laws, Part I*. New Matter 25(2):3-6 (2000).
- Borson, D.B. *Patenting Inventions in Combinatorial Chemistry*. Journal of Molecular Graphics and Modeling 18(1):63-71 (2000).
- Borson, D.B. *Overview of Intellectual Property Protection*. In Intellectual Property Practice for Paralegals. Half Moon Seminars, LLC. Eau Claire, WI, 11 – I4 (1998).
- Borson, D.B. *International Patent Practice*. In Intellectual Property Practice for Paralegals Half Moon Seminars, LLC. Eau Claire, WI, V1 - V40 (1998).
- Borson, D.B. *The Human Genome Project: Patenting Human Genes and Biotechnology. Is the Human Genome Patentable Subject Matter?* IDEA, Journal of Law and Technology, 35(4):461-496 (1995).
- Borson, D.B. *Health Care: The Big Picture*. USF Forum (Oct 24 1994).
- Borson, D.B. *Extended Parentship Act*. Model Statute In: Adrienne D. Davis, Symposium: *Surrogacy Legislation in California*; USF Law Rev. 28(3): 582 - 588 (Spring 1994).
- Borson, D.B., Wong, M., and Carriere, D. *Reform of Compassionate Use of Therapeutic Drugs*. In: Daily Recorder (San Francisco) (May 5 1993).

## INSTRUCTIONAL ACTIVITIES

### Law and Intellectual Property

- 2014            **Mass Spectrometry Applications in the Life Sciences:** develop and deliver lectures on commercialization and intellectual property.
- 2013-14        **Society for Brain Mapping and Therapeutics:** develop and deliver lectures on commercialization and intellectual property.
- 2009-           **Contra Costa County Bar Association,** Business Law Corporate Counsel Section: develop and deliver lectures in business and IP law.
- 2011-           **Australian Biotechnology Organization (AusBiotech):** develop and present lectures on commercialization and international IP law.
- 2010-           **Golden Gate University School of Law**  
Adjunct Professor of Law, Course Director and lecturer: Biotechnology Law, Patent Law
- 2009-           **New Zealand Biotechnology Organization (NZBIO):** develop and present lectures on International IP law and commercialization.
- 2006-           **Borson Law Group, PC:** develop and present workshops and lectures on intellectual property protection, scientific processes, commercialization, and defense for clients.
- 2001 -           **State Bar of California**  
Intellectual Property Section Representative to the Conference of Delegates of California Bar Associations  
Coordinate and implement activities of the Council of State Bar Sections  
Develop and implement strategies for statewide continuing legal education.  
Lectures for State Bar Annual Meeting, 2001-2008  
Lectures for State Bar IP Section Annual Institute  
Lecture for State Bar of California: In House Litigation Symposium 2004.  
Chair, Planning Committee for U.S.P.T.O. Symposia, 2003, 2005  
Lecturer, State Bar Annual Meeting, 2003-2006: Overview of IP and Ethics in IP Practice.  
Lecturer, Intellectual Property Institute, 2002 - 2006. Delivered lectures on Claim Drafting, Law and Equity in IP, Ethics in IP Practice and IP overview  
Member, Planning Committee for the Business Law/Intellectual Property Law Section Third Annual Joint Meeting, La Costa Resort, 2002.  
Prepared and delivered lectures on Patent Claiming Strategies, Business



Aspects of IP law, Legal Ethics in Intellectual Property Practice,  
Doctrine of Equivalents and Law & Equity  
Member, Planning Committee for Copyright Office Comes to California.  
Author articles relating to intellectual property

- 2002 - 2011 **BioScience Forum**, non-profit, educational corporation for Life Science professionals: Founder and President: Formerly Northern California Pharmaceutical Discussion Group. Organize and moderate lectures, panel discussions and symposia relating to life sciences, regulatory affairs and legal affairs for scientists, entrepreneurs and professional personnel. Prepare and present lectures on IP law to life scientists.
- 1997 - 2006 **Fliesler Meyer LLP (Formerly Fliesler, Dubb, Meyer & Lovejoy LLP)**  
Develop and implement strategies for teaching attorneys intellectual property law  
Prepare and deliver IP lectures to Attorneys and Staff.  
Mentor attorneys in IP practice.  
Develop and present lectures relating to Patent Office procedures and case law  
Prepare and deliver lectures to universities, businesses and professional organizations relating to discovery inventions, intellectual property, life sciences, chemistry and biotechnology
- 1997 - 2002 **Northern California Pharmaceutical Discussion Group**  
Non-profit educational organization (became BioScience Forum).  
Organize and moderate lectures in Life Sciences for business and professional personnel. Prepare and deliver lectures relating to intellectual property law.

### Legal Presentations

- 2014 **Keynote Speaker:** *Translational Medicine, Education, Policy, Commercial and IP Issues*, **Society for Brain Mapping and Therapeutics**, 11<sup>th</sup> Annual Convention of the, Sydney, Australia, 18 March 2014.
- 2014 **Plenary Speaker:** *Commercialization and Protection of Intellectual Assets in Application to Mass Spectrometry*, **Mass Spectrometry Applications in Clinical Laboratory**, Annual Convention, March 2, 2014
- 2013 *Multijurisdictional Ethics: Review of California and USPTO Rules of Professional Responsibility*; **State Bar of California Intellectual Property Law Institute**, November 8, 2013.

- 2013 *Patent Law of the United States. Golden Gate University School of Law, August – November 2013.*
- 2013 **Invited Speaker**, *Intellectual Property Perspectives on Translational Development and Commercialization of Medicine*; Society for Brain Mapping and Therapeutics **10<sup>th</sup> World Conference on Brian Mapping** May 12-14, 2013.
- 2013 *Biotechnology Law, Golden Gate University School of Law, January – May 2013.*
- 2013 *Using Intangible Assets in Starting and Running a Business. Business Law Corporate Counsel Section, Contra Costa County Bar Association, April 24, 2013*
- 2012 *Patent Law of the United States. Golden Gate University School of Law, August – November 2012.*
- 2012 *Getting Started in Business: How to Advise Start-Up Enterprises. With Peter Sproul, Contra Costa County Bar Association Business Law Corporate Counsel Section, July 18, 2012.*
- 2011 *How to Fire your Bad Clients and Keep the Good Ones. Business Law Corporate Counsel Section, Contra Costa County Bar Association CLE Spectacular, November 18, 2011.*
- 2011 *Intellectual Property: An Element of Success of a Technology Company's Life Cycle, Australian Biotechnology Organization Conference, Adelaide, Australia, October 2011.*
- 2011 *Workshops on the America Invents Act of 2011, International and Commercialization Strategies, NZBIO, Auckland & Dunedin New Zealand, October 2011.*
- 2011 *The Leahy-Smith America Invents Act of 2011. Intellectual Property Law Section Teleseminar, State Bar of California:*
- 2011 *Copyright Threats to Companies With Web Designs Business Law Corporate Counsel/Intellectual Property Section presentation, Contra Costa County Bar Association, June 16, 2011.*
- 2011 *Tips on Starting an IP Firm, State Bar of California teleseminar, May 24, 2011*

- 2011 *Biotechnology Law*, **Golden Gate University School of Law**, January – May 2011.
- 2011 *What Every Business Attorney Needs to Know About Intangible Assets*. **Business Law Corporate Counsel Section, Contra Costa County Bar Association**, April 20, 2011.
- 2011 *Commercialization and Intellectual Property Strategies*, **NZBIO Conference**, Auckland, New Zealand, March 2011.
- 2011 *Workshops on International Intellectual Property and Commercialization Strategies*, **University of Otago and Otago Innovation Ltd**, Dunedin, New Zealand, March 2011
- 2011 *Update on Federal Legislation and USPTO Rulemaking*. **State Bar of California**, Cyberlaw program, January 29, 2011
- 2011 *Patenting and Patent Law from Legal and Technical Viewpoints*, **State Bar of California**, Cyberlaw program.
- 2010 *International Intellectual Property Strategies*. **NZBIO**, Auckland, New Zealand
- 2010 *Section 101, Utility and Patentable Subject Matter in the Discovery Arts*”: **USPTO Biotechnology, Chemical and Pharmaceutical Partnership Meeting**.
- 2009 *International Intellectual Property Law, acquisition, exploitation and enforcement*: **State Bar of California** Section Education Institute
- 2008 *IP Basics for Non-Specialists* **State Bar of California** Section Education Institute
- 2008 *U.S. Patent Practice for Paralegals*: **HalfMoon LLC**. June 26, 2008
- 2007-8 *Ethics in Intellectual Property Law*, **State Bar of California Annual Meeting**
- 2007 *New Legislation and Case Law*: **State Bar of California IP Institute**
- 2007 *Law of Obviousness in Light of KSR v. Teleflex* **Silicon Valley Intellectual Property Law Association**.
- 2007 *Patent Strategies* University of California **CBE Entrepreneur’s Boot Camp**, San Francisco, California

- 2000-8 *Biotechnology Patents: Current Issues in Examination and Patentability.* **USPTO Group 1600** (Biotechnology, Pharmaceuticals and Chemistry); Organizer and Moderator
- 2007 *New Legislation and Case Law:* **State Bar of California Intellectual Property Annual Institute,**
- 2007-8 *Ethics and Intellectual Property,* **State Bar of California Annual Meeting**
- 2007 *Non-Obviousness in Light of KSR, Pfizer and Takeda: Possible Patent Strategies.* **Silicon Valley Intellectual Property Law Association.** September 13, 2007
- 2007 *Intellectual Property.* **University of California CBE Entrepreneur's Boot Camp;** July 30 (2007), San Francisco, California.
- 2006 *Nuts and Bolts of IP Practice,* **State Bar of California Intellectual Property Section Institute,**
- 2006 *Ethics and Multijurisdictional Practice,* **State Bar of California Annual Meeting.**
- 2006 *International Intellectual Property Protection: Comparisons of U.S. and Foreign Practice issues for the General Practitioner,* **State Bar of California Annual Meeting.**
- 2006 *Technology Transfer Systems and Intellectual Property Protection.* **Osaka University Institute of Scientific and Industrial Research,** Osaka, Japan.
- 2006 *Litigation and Arbitration:* **Fliesler Meyer LLP.**
- 2005 *Substantive International Patent Law: Comparison of U.S. and European Patent Standards.* **UCLA Symposium on International IP Practice.**
- 2005 *Multijurisdictional Ethics: California and Federal Law:* **State Bar of California Annual Meeting.**
- 2004 *Patent Strategies for Follow-On Products.* **IBC's 3d Annual International Conference on Global Follow-On Biologics,** Reston, VA, December 2004.

- 2004 *Ethics in IP and Corporate Matters. State Bar of California Intellectual Property Section Annual Institute*, November 2004.
- 2004 *Protecting Discovery Inventions, State Bar of California Intellectual Property Section Annual Institute*, November 2004.
- 2004 *Trust and Ethics in Intellectual Property Practice. State Bar of California Intellectual Property Section Annual Institute*, October 8, 2004.
- 2004 *International Patent Strategies: State Bar of California Annual Meeting.*
- 2004 *Technology Transfer in the Life Sciences, DNA Bridges Symposium*, September 23, 2004.
- 2004 *Ethics and Rule 11 Sanctions in Intellectual Property. State Bar of California: In House Litigation Conference*, May 2004.
- 2004 *Business Development and Intellectual Property in Discovery Inventions Haas School of Business, University of California, Berkeley*
- 2003 *Biotechnology Intellectual Property Law IBC Life Sciences Course* Director and Lecturer: Develop and teach introductory and intermediate level IP material for biotechnology and life science professionals. Lecture in Follow-On Products.
- 2003 *Discovery Inventions: Scientific and Legal Issues in Life Sciences Patents Fliesler Meyer LLP* (formerly Fliesler Dubb Meyer & Lovejoy LLP)
- 2003 *Defining and Defending Intellectual Property Rights in Biotechnology. IP Strategies and Implications in the Life Sciences: J. Thomas McCarthy Institute of IP and Technology Law University of San Francisco School of Law.*
- 2003 *Whose Invention is it? University of California, San Francisco, Innovation Accelerator.*
- 2003 *IP Protection and Provisional Patents for Bio-related Inventions, Entrepreneur's Discussion Group, University of California, San Francisco*
- 2003 *Post-Festo Update Law and Equity in Intellectual Property, State Bar of California Annual Intellectual Property Institute*, November 8, 2003.

- 2003 . *Ethics in Intellectual Property Law practice.* Organizer and Moderator, **State Bar of California 76th Annual Meeting**, September 4, 2003
- 2003 *Intellectual Property Strategies in the Life Sciences: Introduction to Biotechnology Patents.* Develop and Present 2-day Course. **IBC Life Sciences.**
- 2003 *Current Status of U.S. Patent Law.* **Half Moon Seminars, LLC**, Eau Claire, WI
- 2003 *Intellectual Property Law in the Life Sciences,* **BioScience Forum**
- 2003 *IP Strategies and Implications in the Life Sciences, In: Symposium: Defining and Defending Intellectual Property Rights in Biotechnology.* **J. Thomas McCarthy Institute of IP and Technology Law University of San Francisco School of Law**
- 2003 *Intellectual Property Issues in Medical Devices.* **Drug Information Agency**, February 24-26, 2003.
- 2002 *Ethics and Intellectual Property Practice.* **State Bar of California Fall Intellectual Property Institute**, November 6-8, 2002.
- 2002 *Doctrine of Equivalents in Light of Festo: Law and Equity in Intellectual Property.* **State Bar of California Fall Intellectual Property Institute**, November 6-8, 2002.
- 2002 *Patent Claiming Strategies.* **State Bar of California Intellectual Property Institute**, November 6-8, 2002.
- 2002 *Patent Claiming Strategies.* **State Bar of California Patent Standing Committee** meeting
- 2002 *Business Aspects of Intellectual Property Law.* **State Bar of California Business Law, Intellectual Property joint meeting**
- 2002 *Ethics and Intellectual Property Practice.* **State Bar of California Business Law. Intellectual Property joint meeting**
- 2002 *European Patents, Intellectual Property Rights, Trade Secrets, Trademarks and Branding Issues, In: Winning Strategies for Biomedical Companies in the European Union,* **World Trade Organization of the Bay Area.**
- 2001 *Protecting Intellectual Property in High Technology: Trade Secrets, Patents and Ethics,* **State Bar of California Annual Meeting**

- 2001 *Preparing a Patent Application for Issuance*, **Half-Moon Seminars** for Paralegals.
- 2001 *Doctrine of Equivalents in Light of Festo v. Shoketsu Kinzoku Kogyo Kabushiki Co.* **Fliesler Dubb Meyer & Lovejoy LLP** Attorneys' Meeting
- 2001 *Patent Law, Biotechnology and DNA.* **University of San Francisco School of Law: Intellectual Property Law Association.**
- 2001 *Current Issues in Biotechnology Patents:* **Hastings School of Law: Intellectual Property Organization.**
- 2001 *Protecting Inventions in Combinatorial Chemistry* Keynote Speaker: **Cambridge Healthtech Conference: Eighth Annual Exploiting Molecular Diversity:** Refining Small Molecule Libraries.
- 2001 *Filing Patent Applications.* **Fliesler Dubb Meyer & Lovejoy LLP** Staff Conference
- 2000 *Hot Topics in Biotechnology & Software Patents and New Legislation.* Symposium Organizer and Moderator: United States Patent Office
- 2000 *Patenting Biotechnological and Pharmaceutical Inventions:* **Northern California Pharmaceutical Discussion Group**
- 2000 *State Immunity from Federal Patent and Trademark Laws:* **California State Bar Association Patent Standing Committee**
- 1999 *State Immunity from Federal Patent and Trademark Laws:* **Fliesler, Dubb, Meyer & Lovejoy** Continuing Legal Education Program
- 1998 *Overview of Intellectual Property*  
*International Patent Practice*, **Half-Moon Seminars, Inc.**
- 1997 *Changes to United States Patent Rules.*  
**Fliesler, Dubb, Meyer & Lovejoy** Continuing Legal Education Program
- 1994 *Uses of DNA Technology in Forensic Sciences* **University of San Francisco** Continuing Legal Education Program.

## EMPLOYMENT IN SCIENCE

- 1976 - 1992 **University of California San Francisco, Department of Physiology: Physiology and Pharmacology for Schools of Medicine, Pharmacy, Dentistry and Physical Therapy:**  
Developer and lecturer, cardiovascular, pulmonary, gastrointestinal and renal physiology  
Developer and lecturer: National Board Review Program in Physiology and Biochemistry, School of Dentistry,  
Combined lecture/laboratory program in Physiology: Physical Therapy Program  
Designed courses, prepared course materials, prepared and delivered lectures, wrote and evaluated examinations, supervised student laboratories, individual tutorials
- Cardiovascular Research Institute University of California San Francisco:**  
Prepared and delivered numerous lectures relating to scientific research at University, National and International meetings  
Taught and supervised staff and post-doctoral fellows relating to scientific investigations in neuroscience, physiology, molecular biology, biochemistry and pharmacology.  
Supervised post-doctoral fellows in scientific writing for publications  
Mentored post-doctoral fellows in drafting research grants
- 1986-1992 **Adjunct Lecturer**, Department of Physiology, UCSF  
1986-1992 **Assistant Research Physiologist**, Cardiovascular Research Institute, UCSF  
1983-1986 **Post Doctoral Fellow**, Cardiovascular Research Institute, UCSF

## EMPLOYMENT IN OTHER DISCIPLINES

- 1969 - 1977 **Federal Aviation Administration Certified Flight Instructor, Airplane and Instrument; Ground Instructor:** Airplane, Private, Commercial, Instrument and Multi-engine pilot ratings. President, Buchanan Flying Club
- 1960 - 1968 **Flute Instructor**  
Instructed private students and master classes, President, Bay Flute Club

## HONORS AND AWARDS

- 2010- **Adjunct Professor of Law**, Golden Gate University School of Law.  
2014- **Treasurer**, Business Law Corporate Counsel Section, Contra Costa



- County Bar Association.
- 2014- **Co-Chair**, AIPLA Patent Law Committee, Subcommittee on Patent Policy.
- 2010-2013 **Chair, Business Law Corporate Counsel Section**, Contra Costa County Bar Association.
- 2009-2012 **Member, Patent Public Advisory Committee**, USPTO
- 2009- **Co-Chair**, AIPLA Subcommittee on Section 101, Patent Committee
- 2011- **Co-Chair**, AIPLA Patent Law Subcommittee on Patentability.
- 2009-2011 **Delegate** from IP Section of California State Bar to the Conference of California Bar Associations
- 2007-2009 **Delegate** from IP Section of California State Bar: Conference of Delegates of California Bar Associations
- 2006- **Chair**, Intellectual Property Law Section Legislation Interest Group
- 2004-2006 **Member, Board of Governor's Task Force on Sections**, State Bar of California.
- 2004-2008 **Advisor**, Intellectual Property Law Section, State Bar of California
- 2006- **Member**, IP Law Section and International Law Section, State Bar of California
- 2004-2006 **Chair**, Intellectual Property Section Commission on Proposed USPTO Rules of Professional Responsibility.
- 2003-2005 **Co-Vice Chair** (2003), Co-Chair (2004-2005)  
Council of State Bar of California Sections
- 2002- **Founder and President**, BioScience Forum, non-profit life sciences educational corporation
- 2002-2004 **IP Section Representative: Council of Sections**: State Bar of California.
- 2001-2004 **Member: Executive Committee**: State Bar of California Intellectual Property Section
- 2001- **Member: Intellectual Property Advisory Committee**: USF School of Law
- 2000- 2002 **Chair**, Northern California Pharmaceutical Discussion Group
- 1999 - **Member**, Patent Standing Committee, State Bar of California
- 1999-2000 **Chair-Elect**, Northern California Pharmaceutical Discussion Group
- 1998-2000 **Advisory Board, Board of Directors**: Northern California Pharmaceutical Discussion Group.
- 1994-1996 **Board of Directors**, Balboa Terrace Homes Association
- 1991 **Member, Special Review Committee, National Institute of Health**:  
National Heart, Lung, and Blood Center of Research Program
- 1990 - **Biography** listed in:  
Who's Who in the World  
Who's Who in America  
Who's Who of American Attorneys  
Who's Who in Science and Technology  
Who's Who in Education  
Who's Who in the West

- 1989-1994 **NIH Program Project Grant:** HL 24136 Project D7:  
*Modulation of Airways by Neutral Endopeptidase*
- 1988-1991 **Cystic Fibrosis Research Development Program Grant:** RO 149-1  
*Neuropeptide Release from Airways*
- 1989 to 1992 **Editorial Board, American Journal of Physiology:** Lung Cellular and  
Molecular Physiology
- 1987-1992 **Principle Investigator,** NIH First Independent Research Service and  
Transition Award: HL-38947, *Role of Enkephalinase in  
Regulating Airways.*
- 1987 **Co-inventor:** *Therapeutic Use of Enkephalinase*  
U.S. Patent No. 5,262,178 issued 1993  
U.S. Patent No. 5,403,585 issued 1995.
- 1986-1987 **UCSF Academic Senate Committee on Research Grant:**  
*Regulation of Release of Airway Glycocalyx by Proteinases*
- 1985-1986 **UCSF Research Education and Allocation Committee Grant:**  
*Effects of Peptides and Proteinases on Airway Secretion.*
- 1984-1989 **NIH Program Project Grant:** HL 24136: Project D7:  
*Regulation of Airway Secretion.*
- 1984-1986 **American Lung Association of California Grant:**  
*Roles of Inflammatory Peptides in Regulating Mucus Secretion*
- 1984 - 1986 **Parker B. Francis Research Fellowship**
- 1984 **Cystic Fibrosis Research Fellowship**
- 1983 - 1984 **United States Public Health Service Postdoctoral Fellowship**
- 1976 - 1982 **United States Public Health Service Predoctoral Traineeship**

## SCIENTIFIC EXPERIENCE

- 1990 - 1992 **GENENTECH, INC., South San Francisco, Department of Cellular  
Genetics: *Visiting Scientist.***

### ***Original Scientific Research***

Designed and carried out studies in biochemistry, molecular biology, gene expression, cell culture, cellular transformation & mutagenesis of a mammalian cell surface enzyme with therapeutic utility.

- 1986 - 1992 **UNIVERSITY OF CALIFORNIA, SAN FRANCISCO**

### **Cardiovascular Research Institute, *Assistant Research Physiologist***

#### ***Original Scientific Research:***

Ran biomedical research laboratory, Trained Staff and supervised post-doctoral fellows.

Physiology and Pharmacology, Designed and carried out physiological and pharmacological studies on glycoprotein secretion, regulation of muscle action, reflexes interaction of different branches of the nervous system, hormonal regulation *in vivo* and *in vitro*.

**Biochemistry:** Designed and carried out biochemical studies of peptide degradation, enzyme purification, neurotransmitter release, and macro molecular secretion.

**Molecular Biology and Genetics:** Designed and carried out molecular biological studies on gene transcription, translation, and product translation of endogeneous and exogeneous genes in tissues and cell culture.

**Wrote and administered research grants**

**Authored** over 80 publications in mammalian physiology, biochemistry, and molecular biology relating to neural and humoral regulation of mammalian organ systems

**Inventor** Therapeutic Use of Enkephalinase. Two Issued Patents

**Teacher** Physiology, cell biology, biochemistry, molecular biology, scientific research methods, scientific writing

**Service to Scientific Community:** Reviewed manuscripts and grants. Presented lectures and seminars, and chaired scientific meetings.

1986 - 1992 **UNIVERSITY OF CALIFORNIA, SAN FRANCISCO**

**Department of Physiology, Adjunct Lecturer**

Lectures and Laboratories: Physiology, pharmacology and biochemistry for students in Medical, Pharmacy, Dentistry and Physical Therapy programs.

1983 - 1986 **UNIVERSITY OF CALIFORNIA, SAN FRANCISCO**

**Cardiovascular Research Institute, Postdoctoral Fellow**

**Original Scientific Research:**

Neural and humoral regulation of the respiratory system

## **SELECTED INVITED SCIENTIFIC LECTURES**

- 1983 National Institutes of Health, Clinical Staff Conference  
*Neurohumoral Regulation of Airway Secretion*
- 1983 University of Hawaii, Clinical Physiology Conference  
*Inflammatory Regulation of Airway Secretion*
- 1984, 1986 Vicks Division of Research: Conference on Respiratory Secretions  
*Neurohumoral Regulation of Airway Secretion*
- 1988 Transatlantic Airways Conference, Lucerne, Switzerland  
*Roles of Neutral Endopeptidase in Regulating Airways*
- 1988 University of California, San Francisco: Department of Physiology

- Roles of Peptides and Proteinases in Regulating Airway Functions*
- 1988 International Conference on Rhinitis and Asthma, Smygehamn, Sweden  
*Airway Secretions.*
- 1988 Third Annual Conference on Clinical Immunology, San Francisco  
*Neuropeptides and the Lung: Animal Models and Human Disease*
- 1988 UCSF Quality Assurance and Clinical Conference; Adult Allergy Faculty  
Practice  
*Neuropeptides and Lung Reactions.*
- 1989 Temple University Pulmonary Division;  
*Conference on Proteases in Disease: Role of Neutral Endopeptidase in  
Airways*
- 1989 University of Pennsylvania Department of Pediatrics and Physiology  
*Roles of Neutral Endopeptidase in Regulating Peptide-Induced  
Phenomena*
- 1989 Temple University Department of Physiology  
*Role of Neutral Endopeptidase in Regulating Peptide-Induced Responses*
- 1990 XIII International Congress of Asthmology  
*Neutral Endopeptidase as a Possible Anti-inflammatory Drug*
- 1990 Dokkyo University  
*Roles, Regulation, and Therapeutic Potential of Neutral Endopeptidase*
- 1990 Women's University of Tokyo *Roles, Regulation, and Therapeutic  
Potential of Neutral Endopeptidase*
- 1991 Stanford University School of Medicine; Cystic Fibrosis Research Group  
*Roles and Regulation of Neutral Endopeptidase*

## SELECTED SCIENTIFIC PUBLICATIONS

### **Peer-Reviewed Articles**

1. Borson DB, Chinn RA, Davis B, Nadel JA. *Adrenergic and cholinergic nerves mediate fluid secretion from tracheal glands of ferrets.* J Appl Physiol 49:1027-1031, 1980.
2. Borson DB, Charlin M, Gold BD, Nadel JA. *Neural regulation of <sup>35</sup>SO<sub>4</sub>-macromolecule secretion from tracheal glands of ferrets.* J Appl Physiol 57:457-466, 1984.
3. Gashi AA, Borson DB, Finkbeiner WE, Nadel JA, Basbaum CB. *Neuropeptides degranulate serous cells of ferret tracheal glands.* Am J Physiol 251(Cell Physiol 20):C223-C229, 1986.

4. Borson DB, Corrales R, Varsano S, Gold M, Viro N, Caughey G, Ramachandran J, Nadel JA. *Enkephalinase inhibitors potentiate substance P-induced secretion of <sup>35</sup>SO<sub>4</sub>-macromolecules from ferret trachea.* Exp Lung Res 12:21-36, 1987.
5. Caughey GH, Viro NF, Ramachandran J, Lazarus SC, Borson DB, Nadel JA. *Dog mastocytoma tryptase: affinity purification, characterization and amino-terminal sequence.* Arch Biochem Biophys 258:555-563, 1987.
6. Sekizawa K, Tamaoki J, Nadel JA, Borson DB. *Enkephalinase inhibitor potentiates substance P- and electrically induced contraction in ferret trachea.* J Appl Physiol 63:1401-1405, 1987.
7. Varsano S, Basbaum CB, Forsberg LS, Borson DB, Caughey G, Nadel JA. *Dog tracheal epithelial cells in culture synthesize sulfated macromolecular glycoconjugates and release them from the cell surface upon exposure to extracellular proteinases.* Exp Lung Res 13:157-183, 1987.
8. Dusser DJ, Nadel JA, Sekizawa K, Graf PD, Borson DB. *Neutral endopeptidase and angiotensin converting enzyme inhibitors potentiate kinin-induced contraction of ferret trachea.* J Pharm Exp Ther 244:531-536, 1988.
9. Sheppard D, Thompson JE, Scypinski L, Dusser D, Nadel JA, Borson DB. *Toluene diisocyanate increases airway responsiveness to substance P and decreases airway enkephalinase.* J Clin Invest 81:1111-1115, 1988.
10. Dusser DJ, Umeno E, Graf PD, Borson DB, Nadel JA. *Airway neutral endopeptidase-like enzyme modulates tachykinin-induced bronchoconstriction in vivo.* J Appl Physiol. 65:2585-2591, 1988.
11. Kohrogi H, Graf PD, Sekizawa K, Borson DB, Nadel JA. *Neutral endopeptidase inhibitors potentiate substance P- and capsaicin-induced cough in awake guinea pigs.* J Clin Invest 82:2063-2068, 1988.
12. Djokic TD, Sekizawa K, Borson DB, Nadel JA. *Neutral endopeptidase inhibitors potentiate substance P-induced contraction in gut smooth muscle.* Am J Physiol 256:G39-G41, 1989.
13. Djokic TD, Nadel JA, Dusser DJ, Sekizawa K, Graf PD, Borson DB. *Inhibitors of neutral endopeptidase potentiate electrically and capsaicin-induced noncholinergic contraction in guinea pig bronchi.* J Pharmacol Exp Ther 248:7-11, 1989.
14. Borson DB, Brokaw JJ, Sekizawa K, McDonald DM, Nadel JA. *Neutral endopeptidase and neurogenic inflammation in rats with respiratory infections.* J Appl Physiol. 66:2653-2658, 1989.

15. Kohrogi H, Nadel JA, Malfroy B, Gorman C, Bridenbaugh B, Patton JS, Borson DB. *Recombinant human enkephalinase (neutral endopeptidase) prevents cough induced by tachykinins in awake guinea pigs.* J Clin Invest 84:781-786, 1989.
16. Dusser DJ, Djokic TD, Borson DB, Nadel JA. *Cigarette smoke induces bronchoconstrictor hyperresponsiveness to substance P and inactivates airway neutral endopeptidase in the guinea pig.* J Clin Invest, 84:900-906, 1989.
17. Rubinstein I, Iwamoto I, Ueki IF, Borson DB, Nadel JA. *Recombinant neutral endopeptidase attenuates substance P-induced plasma extravasation in the guinea pig skin.* Int Arch Allergy and Appl Immunol. 91:232-238, 1990.
18. Borson DB, Gruenert DC. *Glucocorticoids increase expression of neutral endopeptidase in transformed human tracheal epithelial cells.* Am. J. Physiol. 260 ( Lung Cell. Mol. Physiol. 4):L83-L89, 1991.
19. Katayama M, Nadel, J.A, Bunnnett NW, DiMaria, G.U, Haxhiu, M.A., Borson DB. *Catabolism of calcitonin gene-related peptide by neutral endopeptidase.* Peptides 12:563-567, 1991.
20. DiMaria GU, Katayama M, Borson DB, and Nadel JA. *Neutral endopeptidase modulates endothelin-1-induced airway smooth muscle contraction in guinea pig.* Regul. Peptides 39:137-145, 1992.

### **Review Articles, Books, and Book Chapters**

21. Borson, DB. *Neural regulation of secretion from tracheal submucosal glands.* Ph.D. Dissertation. University of California, San Francisco, CA (1982).
22. Nadel JA, Borson DB, Basbaum DB, Widdicombe JH. *Techniques for studying airway mucus secretion, ion transport and water movement.* In Techniques in the Life Sciences. Techniques in Respiratory Physiology - Part I. Otis AB, ed. Elsevier Scientific Publishers Ireland Ltd., County Clare, Ireland, pp:1-35, 1984.
23. Nadel JA, Borson DB. *Secretion and ion transport in airways during inflammation.* Biorheology 24:541-549, 1987.
24. Nadel JA, Borson DB. *Modulation of neuropeptide actions by enkephalinase.* In Pharmacology. Rand MJ, Raper C, eds. Elsevier Science Publishers B.V., pp: 425-439, 1987.
25. Nadel JA, Borson DB. *Modulation of tachykinins and bradykinin by enkephalinase.* In Mechanisms in Asthma: Pharmacology, Physiology, and Management. Armour CL, Black JL, eds. Alan R. Liss, Inc. New York, pp:123-130, 1987.

26. Borson DB, Gashi AA, Nadel JA. *Methods for studying secretion from airways.* In: Methods in Mucology. Braga PC, Allegra L, eds. Raven Press, New York City, pp: 303-334, 1988.
27. Borson DB, Nadel JA. *Regulation of airway secretions.* In Workshop on Rhinitis and Asthma; Similarities and Differences. Mygind N, Pipkorn U, Dahl R, eds. Munksgaard, Copenhagen, Denmark, Chapter 6, pp:76-99, 1990.
28. Borson DB. *Roles of neutral endopeptidase in airways.* Am. J. Physiol. 260 (Lung Cellular and Molecular Physiol. 4:L212-L225, 1991.
29. Borson, DB, Nadel, JA. *Neutral Endopeptidase as a Possible Therapeutic Drug.* In: Advances in Asthmology 1990: Proceedings of the XIII International Congress of Asthmology, held in Maebashi, Japan. S. Kobayashi, J.A. Bellanti, Eds. Elsevier, Amsterdam. pp: 373 - 381, 1991.
30. Borson, DB. *Possible Roles of Peptides and Peptidases in Asthma.* American College of Chest Physicians, Pulmonary and Critical Care Update: 8(8):1-12, 1992.

### **Abstracts**

31. Gamsu G, Borson B, Webb WR, Nadel JA. *Structure: function correlation in tracheal stenosis.* Am Rev Respir Dis 115:328, 1977.
32. Borson B, Chinn R, Davis B, Nadel J. *Electrical stimulation of cholinergic nerves to submucosal glands in ferret trachea in vitro.* Physiologist 22:12, 1979.
33. Borson DB, Nadel J. *Mucous secretory response of canine tracheal pouch.* Fed Proc 38:1330, 1979.
34. Borson DB, Nadel JA. *Adrenergic neurotransmission to tracheal submucosal glands of ferrets.* Clin Res 29:98A, 1981.
35. Borson DB, Nadel JA. *Cholinergic nerves inhibit adrenergic neurotransmission to tracheal submucosal glands of ferrets.* Fed Proc 40:254, 1981.
36. Borson DB, Charlin M, Gold BD, Nadel JA. *Nonadrenergic noncholinergic nerves mediate secretion of macromolecules by tracheal glands of ferrets.* Fed Proc 41:1754, 1982.
37. Borson DB, Caughey G, Lazarus SC, Gold WM, Nadel JA. *Neutral proteases of canine mastocytoma cells.* Fed Proc 44:1276, 1985.

38. Borson DB, Corrales RJ, Viro N, Nadel JA. *Substance P (SP) regulation of <sup>35</sup>SO<sub>4</sub> macromolecule secretion from ferret trachea.* Am Rev Respir Dis 131:A27, 1985.
39. Borson DB, Gold M, Varsano S, Caughey G, Ramachandran J, Nadel JA. *Enkephalinase inhibitors potentiate tachykinin-induced release of <sup>35</sup>SO<sub>4</sub>-labeled macromolecules from ferret trachea.* Fed Proc 45:626, 1986.
40. Borson DB, Malfroy B, Gold M, Ramachandran J, Nadel JA. *Tachykinins inhibit enkephalinase activity from tracheas and lungs of ferrets.* Physiologist 29:174, 1986.
41. Forsberg LS, Varsano S, Borson DB, Basbaum CB, Nadel JA. *Keratinase-sensitive cell surface glycans are synthesized by cultured tracheal epithelial cells.* Fed Proc 45:1904, 1986.
42. Sekizawa K, Tamaoki J, Nadel JA, Borson DB. *Enkephalinase inhibitor (leucine-thiorphan) potentiates mammalian tachykinin-induced contraction in ferret trachea.* Fed Proc 46:650, 1987.
43. Sheppard D, Thompson JE, Scypinski L, Dusser D, Nadel JA, Borson DB. *Toluene diisocyanate increases airway responsiveness to substance P and decreases airway enkephalinase.* Physiologist 30:196, 1987.
44. Borson DB, Brokaw J, Sekizawa K, McDonald D, Nadel JA. *Viral infection increases permeability response to substance P (SP) by decreasing tracheal neutral endopeptidase (NEP).* FASEB J. 2:A1382, 1988.
45. Borson DB, Brokaw J, Sekizawa K, McDonald D, Nadel JA. *Viral infection increases tracheal permeability response to substance P (SP) in rats by decreasing neutral endopeptidase (NEP).* J Cell Biochem [Suppl] 12B:295, 1988.
46. Nadel JA, Djokic TD, Djokic LT, Borson DB. *Neutral endopeptidase inhibitor potentiates neurotensin-induced contraction in guinea pig bronchi.* FASEB J. 2:A1383, 1988.
47. Kohrogi H, Nadel JA, Malfroy B, Gorman C, Bridenbaugh B, Patton JS, Borson DB. *Recombinant enkephalinase inhibits substance P- and capsaicin-induced cough in awake guinea pigs.* Am Rev Respir Dis 139:A133, 1989.
48. Borson DB, Jew S, Gruenert DC. *Glucocorticoids increase expression of neutral endopeptidase in transformed human tracheal epithelial cells.* Physiologist 32:226, 1989.



49. Katayama M, Bunnett NW, Ueki IF, Nadel JA, Borson DB. *Recombinant human neutral endopeptidase (NEP) cleaves calcitonin gene-related peptide (CGRP)*. FASEB J. 4:A998, 1990.
50. DiMaria GU, Katayama M, Graf PD, Borson DB, Nadel JA. *Neutral endopeptidase modulates endothelin-induced contraction of guinea pig trachea*. Pharm. Res. 22 (Suppl2):170, 1990.
51. Borson DB, Gruenert DC. *Cystic Fibrosis cells in culture express neutral endopeptidase (NEP, enkephalinase)*. Pediatric Pulmonology (Suppl. 5):250, 1990.
52. Borson DB, Katayama M. *Calcitonin gene-related peptide inhibits cleavage of substance P by recombinant human neutral endopeptidase*. FASEB J.5:A863, 1991.
53. Katayama M, Nadel JA, Borson DB. Recombinant human neutral endopeptidase (NEP) cleaves human endothelin (ET<sub>1</sub>). FASEB J. 5:A863, 1991.
54. Borson DB, Gies D, and C. Gorman. *Transmembrane domain is necessary for expression of functional human neutral endopeptidase*. J. Cell. Biol. 115:61A, 1991.

#### **PATENTS PREPARED, PROSECUTED AND/OR ISSUED**

1. Jui H. Wang et al., *Poly-Substituted-Phenyl-Oligoribonucleotides Having Enhanced Stability and Membrane Permeability and Methods of Use*, U.S. Pat. No: 5,858,988, issued Jan 12, 1999.
2. Herbert E. Schwartz et al., *Bioresorbable Compositions of Carboxypolysaccharide Polyether Intermacromolecular Complexes and Methods for Their Use in Reducing Surgical Adhesions*. U.S. Pat. No: 5,906,997, issued May 25, 1999.
3. Radu Barsan et al., *Use of Borophosphorous Tetraethyl Orthosilicate (BPTEOS) to Improve Isolation in a Transistor Array*. U.S. Patent No: 5,908,308, issued June 1, 1999.
4. James E. Currie et al., *Planarization Composition for Removing Metal Films*. U.S. Pat. No: 5,993,685, issued November 30, 1999.
5. Ashraf R. Khan et al., *Surface Modification of Semiconductors Using Electromagnetic Radiation*. U.S. Pat. No: 6,015,759, issued January 18, 2000.

6. Herbert E. Schwartz et al., *Bioresorbable Compositions of Carboxypolysaccharide Polyether Intermacromolecular Complexes and Methods for Their Use in Reducing Surgical Adhesions*. U.S. Pat. No: 6,017,301, issued January 25, 2000.
7. Chung J. Lee et al., *Precursors for Making Low Dielectric Constant Materials with Improved Thermal Stability*. U.S. Pat. No: 6,020,458, issued February 1, 2000.
8. Herbert E. Schwartz et al., *Bioresorbable Compositions of Carboxypolysaccharide Polyether Intermacromolecular Complexes and Methods for Their Use in Reducing Surgical Adhesions*. U.S. Pat. No: 6,034,140, issued March 7, 2000.
9. Giovanni Antonio Foggiato et al., *Large Area Discharge Excitation Radiator*. U.S. Pat. No: 6,049,086, issued April 11, 2000.
10. Chung J. Lee et al., *Low Dielectric Constant Materials and Method*. U.S. Pat. No: 6,051,321, issued April 18, 2000.
11. Sunil D. Mehta et al., *Annealing of Silicon Oxynitride and Silicon Nitride Films to Eliminate High Temperature Charge Loss*. U.S. Pat. No: 6,071,784, issued June 6, 2000.
12. David Leksell et al., *Chamber for Reducing Contamination During Chemical Vapor Deposition*. U.S. Pat. No: 6,079,353, issued June 27, 2000.
13. Chung J. Lee et al., *Deposition Systems and Processes for Transport Polymerization and Chemical Vapor Deposition*. U.S. Pat. No: 6,086,679, issued July 11, 2000.
14. Gouxu Pan, *High Hardness and Wear-Resistant Flux Cored Wire*. U.S. Pat. No: 6,103,997, issued August 15, 2000.
15. David Leksell et al., *Chamber for Reducing Contamination During Chemical Vapor Deposition*. U.S. Pat. No: 6,114,227, issued September 5, 2000.
16. Herbert E. Schwartz et al., *Bioresorbable Compositions of Carboxypolysaccharide Polyether Intermacromolecular Complexes and Methods for Their Use in Reducing Surgical Adhesions*. U.S. Pat. No: 6,133,325, issued October 17, 2000.
17. Chung J. Lee et al., *Chemicals and Methods for Making Fluorinated Poly(Para-Xylylenes)*. U.S. Pat. No: 6,140,456, issued October 31, 2000.

18. Yue-Song He et al., *Barrier Layer Decreases Nitrogen Contamination of Peripheral Gate Regions During Tunnel Oxide Nitridation*. U.S. Pat. No: 6,143,608, issued November 7, 2000.
19. Zoran Krivokapic, *Convex Device with Selectively Doped Channel*. U.S. Pat. No: 6,153,454, issued November 28, 2000.
20. William Oppelt, et al., *Laparoscopic Insertion and Deployment Device*, U.S. Pat. No: 6,193,731, issued February 27, 2001.
21. Lu You et al., *Cure Process for Manufacture of Low Dielectric Constant Interlevel Dielectric Layers*. U.S. Pat. No: 6,200,913, issued March 13, 2001.
22. Jonathan Lin et al., *Improving Field Leakage by Using a Thin Layer of Nitride Deposited by Chemical Vapor Deposition*. U.S. Pat. No: 6,211,022, issued April 3, 2001.
23. Lu You et al., *Rapid Acceleration Methods for Global Planarization of Spin-On Films*. U.S. Pat. No: 6,225,240, issued May 1, 2001.
24. Effiong Ibok, *Graded Anti-Reflective Barrier Films for Ultra-Fine Lithography* U.S. Pat. No: 6,235,456, issued May 22, 2001.
25. Chung J. Lee et al., *Precursors for Making Low Dielectric Constant Materials with Improved Thermal Stability*. U.S. Pat. No. 6,258,407 B1, issued July 10, 2001.
26. James E. Currie et al., *Planarization Compositions for Removing Metal Films*. U.S. Pat. No. 6,267,909, issued July 31, 2001.
27. Jui H. Wang. *Antiviral Anticancer Poly-Substituted Phenyl Derivatized Oligoribonucleotides and Methods for Their Use*. U.S. Pat. No. 6,291,438, issued September 18, 2001.
28. Hyeon-Seag Kim et al., *Process for Manufacturing Shallow Trenches Filled With Dielectric Material Having Low Mechanical Stress*. U.S. Pat. No: 6,297,128, issued October 2, 2001.
29. Seshu B. Desu et al., *Near-Room Temperature Thermal Chemical Vapor Deposition of Oxide Films*, U.S. Pat. No: 6,316,055, issued November 13, 2001.
30. Lu You et al., *Apparatus and Methods for Uniform Scan Dispensing of Spin on Materials*. U.S. Pat. No: 6,317,642, issued November 13, 2001.

31. David Greenlaw et al., *Process to Separate the Doping of Polygate and Source Drain Regions in Dual Gate Field Effect Transistors*. U.S. Pat. No: 6,319,804, issued November 20, 2001.
32. Richard Brewer, Thomas J. Grebinski, James E. Currie, Michael Jones, William Muller, and Ann Nguyen, *Planarization Compositions and methods for Removing Interlayer Dielectric Films*, U.S. Patent No. 6,122,600, issued November 27, 2001.
33. Chung J. Lee et al., *Low Dielectric Constant Materials with Improved Thermal and Mechanical Properties*. U.S. Pat. No: 6,323,297, issued November 27, 2001.
34. Seshu B. Desu et al., *Oxide/Organic Polymer Multilayer Thin Films Deposited by Chemical Vapor Deposition*. U.S. Pat. No: 6,358,863 B1, issued March 19, 2002.
35. Lu You et al., *Solution Flow-In for Uniform Deposition of Spin-on Films*. U.S. Pat. No: 6,387,825, issued May 14, 2002.
36. Lu You et al., *Methods of Manufacture of Uniform Spin-On Films*. U.S. Pat. No: 6,407,009, issued June 18, 2002.
37. Hyeon-Seag Kim, *Gate Insulator Process for Nanometer Mosfets*. U.S. Pat. No: 6,413,826, issued July 2, 2002.
38. Effiong Ibok, *Method for Fabricating High Permittivity Dielectric Stacks Having Low Buffer Oxide*. U.S. Pat. No: 6,417,041, issued July 9, 2002.
39. Hyeon-Seag Kim et al., *Process for Manufacturing Shallow Trenches Filled With Dielectric Material Having Low Mechanical Stress*. U.S. Pat. No: 6,455,912, issued September 24, 2002.
40. Desu et al., *Near-Room Temperature CVD Synthesis of Organic Polymer/Oxide Dielectric Nanocomposites*. U.S. Patent No: 6,495,208 B1, issued December 17, 2002.
41. Lu You et al., *Closed Deposition Apparatus and Methods for Regulating Drying of Spin-On Films*. U.S. Pat. No: 6,530,340 B2, issued March 11, 2003.
42. Chung J. Lee et al., *Precursors for Making Low Dielectric Constant Materials With Improved Thermal Stability*. U.S. Pat. No: 6,534,616, issued March 18, 2003.
43. Raisa V. Talroze and Leonid N. Grigorov, *Conductive Polymer Materials and Methods for Their Manufacture and Use*, U.S. Pat. No: 6,563,132, issued May 13, 2003.

44. Mark E. Miller et al., *Polyacid/Polyalkylene Oxide Foams and Gels and Methods for Their Delivery*, U.S. Pat. No: 6,566,345 B2, issued May 20, 2003.
45. Peter D. Gluckman et al., *Regulation of Tyrosine Hydroxylase*. U.S. Pat. No: 6,617,311 B1, issued September 9, 2003.
46. Chung J. Lee et al., *Low Dielectric Constant Materials Prepared From Photon or Plasma Assisted Chemical Vapor Deposition and Transport Polymerization of Selected Compounds*. U.S. Pat. No: 6,663,973, issued December 16, 2003.
47. Tajrena Alexi, *Methods for Promoting Weight Gain Using GPE-Related Compounds*. U.S. Pat. No: 6,682,753 B2, issued January 27, 2004.
48. David I. Kreimer et al., *Systems and Methods for Filter Based Spectrographic Analysis*. U.S. Pat. No: 6,707,548, issued March 16, 2004.
49. Milos Sovak et al., *A Topical Antiandrogen for Hair Loss and Other Hyperandrogenic Conditions*. European Patent No: 1 169 301.
50. Peter Gluckman et al., *Use of GPE to Protect Glial Cells or Non-Dopaminergic Cells From Death From Neural Injury of Disease*. U.S. Pat. No: 6,780,848, issued August 24, 2004.
51. Peter Gluckman et al., *Methods to Improve Neural Outcome*. U.S. Pat. No: 6,812,208, issued November 2, 2004.
52. Milos Sovak et al., *Topical Antiandrogen for Hair Loss and Other Hyperandrogenic Conditions*. U.S. Pat. No: 6,828,458, issued December 4, 2004.
53. Raisa Talroze et al., *Conductive Polymer Materials and Methods for their Manufacture and Use*, U.S. Pat. No: 6,844,567, issued January 18, 2005.
54. Lance Hunter, *Shaving Cream Dispenser*. U.S. Pat. No: 6,860,413, issued March 1, 2005.
55. Herbert Schwartz et al., *Compositions of Polyacids and Polyethers and Methods for Their Use in Reducing Adhesions*. U.S. Pat. No: 6,869,938, issued March 22, 2005.
56. Allan Gardiner et al., *Illuminator with Filter Array and Bandwidth Controller*. U.S. Pat. No: 6,886,964, issued May 3, 2005.

57. Lin-Shu Lin et al., *Chemically Activated Carboxypolysaccharides and Methods for Use to Inhibit Adhesion Formation and Promote Hemostasis*. U.S. Pat. No: 6,923,961, issued August 2, 2005.
58. Christopher Williams, *Processing EEG Signals to Predict Brain Damage*. U.S. Pat. 6,931,274, issued August 16, 2005.
59. Mark Vickers et al., *Treatment of Hypertension Using Growth Hormone in Mammals Subjected to Fetal Programming*. U.S. Pat. No: 6,933,278, issued August 23, 2005.
60. Peter Gluckman et al., *Regulation of Tyrosine Hydroxylase by GPE*. U.S. Pat. No: 6,933,282, issued August 23, 2005.
61. Leonid Grigorov et al., *Quantum Devices Based on Crystallized Electron Pairs and Methods for Their Manufacture and Use*. U.S. Pat. No: 7,014,795, issued March 21, 2006.
62. Norman Abood et al., *GPE Analogs and Peptidomimetics*, U.S. Pat. No: 7,041,214, issued May 9, 2006.
63. William Oppelt et al., *Hemostatic Compositions of Polyacids and Polyalkylene Oxides and Methods for Their Use*. Australian Patent No: 2001255716.
64. Peter Gluckman et al., *GPE Analogs*. U.S. Pat. No: 7,112,570, issued September 26, 2006.
65. Chung Lee et al., *Precursors for Making Low Dielectric Constant Materials With Improved Thermal Stability*. Korean Patent No: 602222, registered July 10, 2006.
66. Chung Lee et al., *New Deposition Systems and Processes for Transport Polymerization and Chemical Vapor Deposition*. Korean Patent No: 621226, registered August 30, 2006.
67. Constance Haber et al., *Therapeutic Methods Using Electromagnetic Radiation*. U.S. Pat. No: 7,150,710, issued December 19, 2006.
68. Geoffrey Krissansen et al., *Treatment of Demyelinating Diseases*. U.S. Pat. No: 7,192,931, issued March 20, 2007.
69. Richard Berg et al., *Compositions of Polyacids and Polyethers and Methods for Their Use as Dermal Fillers*. U.S. Pat. No: 7,192,984, issued March 20, 2007.
70. Mark Miller et al., *Polyacid/Polyalkylene Oxide Gels and Methods for Their Delivery*, U.S. Pat. No; 7,265,098, issued September 4, 2007.

71. David Batchelor et al., *Methods for Detecting Weakly Immunogenic Analytes*. U.S. Pat. No: 7,282,432, issued October 16, 2007.
72. Michael Powell, *Diagnosis and Treatment of Human Dormancy Syndrome*, U.S. Pat. No: 7,288,257, issued October 30, 2007.
73. Arjen Scheepens et al., *Neuroprotective Effect of Growth Hormone*. U.S. Pat. No: 7,304,029, issued December 4, 2007.
74. Angel DeCegama, *Methods for Real-Time Software Video/Audio Compression, Transmission, Decompression and Display*. U.S. Pat. No: 7,317,840, issued January 8, 2008.
75. Anthony Reeve et al., *Medical Applications of Adaptive Learning Systems Using Gene Expression Data*. U.S. Pat. No: 7,370,021, issued May 6, 2008.
76. Seiya Imoto et al., *Biological Discovery Using Gene Regulatory Networks Generated from Multiple-Disruption Expression Libraries*. U.S. Pat. No. 7,430,475, issued September 30, 2008.
77. Michael Powell. *Diagnosis and Treatment of Human Dormancy-Related Sequellae*, U.S. Pat. No: 7,485,298, issued February 3, 2009.
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6. **SIMPL**, U.S. Reg. No. 3,680,118, Reg. Date: September 8, 2009, MSM Protein Technologies, Inc.
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