

**Michael Bigby, MD**  
**Curriculum Vitae**

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**Education**

|      |                       |           |                        |
|------|-----------------------|-----------|------------------------|
| 1971 | BA<br>magna cum laude | Chemistry | Princeton University   |
| 1975 | MD                    | Medicine  | Harvard Medical School |

**Postdoctoral Training**

|           |                 |                                    |                                                    |
|-----------|-----------------|------------------------------------|----------------------------------------------------|
| 1975-1976 | Intern          | Medicine                           | Massachusetts General Hospital                     |
| 1976-1978 | Resident        | Medicine                           | Massachusetts General Hospital                     |
| 1982-1984 | Resident        | Dermatology                        | Harvard Medical School                             |
| 1984-1985 | Chief Resident  | Dermatology                        | Harvard Medical School                             |
| 1985-1988 | Research Fellow | Immunology<br>(Man-Sun Sy,<br>PhD) | Department of Pathology,<br>Harvard Medical School |

**Faculty Academic Appointments**

|               |                                 |             |                                      |
|---------------|---------------------------------|-------------|--------------------------------------|
| 07/79-06/80   | Clinical Instructor             | Medicine    | University of Washington,<br>Seattle |
| 07/80-06/81   | Clinical Assistant<br>Professor | Medicine    | University of Washington,<br>Seattle |
| 07/88-06/91   | Instructor                      | Dermatology | Harvard Medical School               |
| 07/91-06/03   | Assistant Professor             | Dermatology | Harvard Medical School               |
| 07/03-present | Associate Professor             | Dermatology | Harvard Medical School               |

### Appointments at Hospitals/Affiliated Institutions

|                |                     |                   |                                                         |
|----------------|---------------------|-------------------|---------------------------------------------------------|
| 07/78-06/81    | Active Staff        | Internal Medicine | U.S. Public Health Service Hospital, Seattle Washington |
| 07/81-06/82    | Active Staff        | Internal Medicine | Massachusetts General Hospital, Chelsea Health Center   |
| 07/85-Present  | Active Staff        | Dermatology       | Beth Israel Deaconess Medical Center                    |
| 07/88-06/91    | Assistant Physician | Pathology         | Massachusetts General Hospital                          |
| 1990 - Present | Consulting Staff    | Dermatology       | Martha's Vineyard Hospital                              |
| 07/91-06/96    | Assistant Physician | Dermatology       | Massachusetts General Hospital                          |
| 1998-2005      | Chief               | Dermatology       | Harvard University Health Service                       |

### Other Professional Positions

|           |                                                              |                                       |
|-----------|--------------------------------------------------------------|---------------------------------------|
| 1985-1995 | Advisory Panel                                               | United States Pharmacopeal Convention |
| 2003-2010 | Practice Expense Advisor for American Academy of Dermatology | Relative Value Update Committee (RUC) |
| 2008-2010 | Advisor Society of Investigative Dermatology                 | Relative Value Update Committee (RUC) |
| 2008-2010 | Consultant                                                   | Electro-Optical Systems (Melafind)    |

### Major Administrative Leadership Positions

#### Local

|              |                                                                   |                                      |
|--------------|-------------------------------------------------------------------|--------------------------------------|
| 1996 - 2006  | Co-Director, Human Systems Module I (Pathophysiology of the Skin) | Harvard Medical School               |
| 1998-2005    | Chief of Dermatology                                              | Harvard University Health Services   |
| 2009-Present | Medicine/Dermatology Program Advisor                              | Beth Israel Deaconess Medical Center |
| 2017-Present | Chief of Dermatology Research                                     | Beth Israel Deaconess Medical Center |

#### National

|           |                                           |                                       |
|-----------|-------------------------------------------|---------------------------------------|
| 2000-2005 | Chairman, Expert Committee on Dermatology | United States Pharmacopeal Convention |
| 2004-2008 | Chairman, Dermatology,                    | Food and Drug                         |

|           |                                                                         |                              |
|-----------|-------------------------------------------------------------------------|------------------------------|
|           | Ophthalmology and Dental Drug Advisory Committee                        | Administration               |
| 2016-2019 | Chairman, Dermatology, Ophthalmology and Dental Drug Advisory Committee | Food and Drug Administration |

**Committee Service**

**Local**

**National and International**

|           |                                              |                                                                                                          |
|-----------|----------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1987-1998 | Residency selection and evaluation committee | Department of Dermatology, Harvard Medical School                                                        |
| 1987-1988 | Curriculum Committee                         | Department of Dermatology, Harvard Medical School                                                        |
| 1988-1992 | Pharmacy and Therapeutics Committee          | Beth Israel Deaconess Medical Center                                                                     |
| 1990-1994 | Committee on Research                        | Massachusetts General Hospital                                                                           |
| 1994-1996 | Subcommittee on Review of Research Proposals | Massachusetts General Hospital                                                                           |
| 1996-2000 | Council on Education                         | Harvard Medical School-<br>Beth Israel Deaconess<br>Mount Auburn Institute for<br>Education and Research |
| 1999-2002 | Faculty Council                              | Harvard Medical School                                                                                   |
| 2005-2008 | Faculty Council                              | Harvard Medical School                                                                                   |
| 2009-2013 | Residency selection and evaluation committee | Department of Dermatology, Harvard Medical School                                                        |
| 1987-1989 | Self-Assessment Committee                    | American Academy of Dermatology                                                                          |
| 1995-1996 | Merit Review Subcommittee on Immunology      | Department of Veterans Affairs                                                                           |
| 2000-2005 | Epidemiology Committee                       | American Academy of Dermatology                                                                          |
| 2001-2004 | Quality of Care Task Force                   | American Academy of Dermatology                                                                          |
| 2005-2010 | Clinical Guidelines Task Force               | American Academy of Dermatology                                                                          |
| 2011-2015 | Relative Value Update Committee<br>Co-Chair  | American Academy of Dermatology                                                                          |

### Professional Societies

|              |                                                     |                                                          |
|--------------|-----------------------------------------------------|----------------------------------------------------------|
| 1979-1982    | American college of Physicians                      |                                                          |
|              |                                                     | Member                                                   |
| 1983-1985    | Massachusetts Medical society                       |                                                          |
|              |                                                     | Member                                                   |
| 1984-1996    | American Association for the advancement of Science |                                                          |
|              |                                                     | Member                                                   |
| 1985-Present | American Academy of Dermatology                     |                                                          |
| 1988-1992    |                                                     | Task Force of Occupational and Environmental Dermatology |
| 2000-2005    |                                                     | Epidemiology Committee                                   |
| 2001-2004    |                                                     | Quality of Care Task Force                               |
| 2005-2010    |                                                     | Clinical Guidelines Task Force                           |
| 1985-Present | Society of Investigative Dermatology                |                                                          |
|              |                                                     | Member                                                   |
| 1987-Present | New England Dermatology Society                     |                                                          |
|              |                                                     | Member                                                   |
| 1987-1990    | American Occupational Medical Association           |                                                          |
|              |                                                     | Member                                                   |
| 1988-1990    | American Federation for Clinical Research           |                                                          |
|              |                                                     | Member                                                   |
| 2004-Present | American Dermatological Association                 |                                                          |
|              |                                                     | Member                                                   |
| 2007-2008    | Massachusetts Medical Society                       |                                                          |
|              |                                                     | Member                                                   |

### Grant Review Activities

|           |                                              |                                               |
|-----------|----------------------------------------------|-----------------------------------------------|
| 1994-1996 | Subcommittee on Review of Research Proposals | Massachusetts General Hospital                |
|           |                                              | Ad hoc Member                                 |
| 1995-1996 | Merit Review Subcommittee on Immunology      | Department of Veterans Affairs. Ad hoc Member |

## Editorial Activities

### 1. Ad hoc Reviewer

|                                             |
|---------------------------------------------|
| New England Journal of Medicine             |
| Journal of the American Medical Association |
| Journal of Investigative Dermatology        |
| Archives of Dermatology                     |
| British Journal of Dermatology              |
| Journal of Clinical Epidemiology            |
| British Medical Journal                     |

### 2. Other Editorial Roles

|              |                                                    |                                                |
|--------------|----------------------------------------------------|------------------------------------------------|
| 1985-1993    | Book Review Editor                                 | Archives of Dermatology                        |
| 1992-2015    | Editorial Board                                    | Archives of Dermatology                        |
| 1995-2008    | Assistant Editor                                   | Journal of the American Academy of Dermatology |
| 1999-2015    | Section Editor, Evidence-Based Dermatology Section | Archives of Dermatology                        |
| 1999-Present | Editor                                             | Cochrane Collaboration, Cochrane Skin Group    |
| 2012-Present | Editorial Board                                    | International Trends in Immunity               |
| 2013-Present | Editorial Board                                    | Indian Journal of Dermatology                  |

## Honors and Prizes

|           |                                            |                                                 |                                                 |
|-----------|--------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| 1971      | Magna cum Laude                            | Princeton University                            | Chemistry                                       |
| 1971      | Phi Beta Kappa                             | Princeton University                            |                                                 |
| 1971      | Sigma Xi                                   | Princeton University                            |                                                 |
| 1984-1988 | Minority Medical Faculty Development Award | Robert Wood Johnson Foundation                  |                                                 |
| 1985      | Letter of Commendation                     | Dean Daniel Federman, Harvard Medical School    | Teaching Core Clinical Clerkship in Dermatology |
| 1986      | Eva Lungwe Research Award                  | Dermatology Foundation and Herbert Laboratories | Research                                        |
| 1988      | Avon Products Research Fellowship Award    | Dermatology Foundation and Avon Products, Inc.  | Research                                        |
| 2002      | Service Award                              | Harvard University Health Services              | Improving Dermatology at UHS                    |

|                           |                                      |                                        |                                                                |
|---------------------------|--------------------------------------|----------------------------------------|----------------------------------------------------------------|
| 2002                      | Alexander A Fisher<br>Lecturer       | American Contact Dermatitis<br>Society |                                                                |
| 2004                      | Membership                           | American Dermatological<br>Association |                                                                |
| 2005                      | Chan Heng Leong<br>Memorial Lecturer | Dermatological Society of<br>Singapore |                                                                |
| 2007, 2009,<br>2013, 2015 | Presidential Citation                | American Academy of<br>Dermatology     | Volunteer Work<br>on the Relative<br>Value Update<br>Committee |
| 2013                      | Clarence Livingood<br>Lecturship     | American Academy of<br>Dermatology     |                                                                |
| 2015                      | Honorary Membership                  | American Academy of<br>Dermatology     |                                                                |

## **Report of Funded and Unfunded Projects**

### **Funding Information**

#### **Past**

|           |                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1984-1988 | Mechanism of T-cell activation in allergic contact dermatitis                                                                                                                                                                                   |
|           | Minority Medical Faculty Development Award Robert Wood Johnson<br>Foundation                                                                                                                                                                    |
|           | PI                                                                                                                                                                                                                                              |
|           | The major goals of this study were to determine the mechanisms of T-cell<br>activation in allergic contact dermatitis and the effect of ultraviolet<br>irradiation on the development of allergic contact dermatitis.                           |
| 1999      | Multimedia Teaching Module in Dermatology                                                                                                                                                                                                       |
|           | Carl J Shapiro Institute for Education and Research, Harvard Medical<br>School and Beth Israel Deaconess Medical Center                                                                                                                         |
|           | PI                                                                                                                                                                                                                                              |
|           | This project developed a Multimedia Teaching Module in Dermatology to<br>teach students basics of history taking, physical examination and office<br>procedures in evaluating patients with skin disease.                                       |
| 2000-2003 | Dermatology Module for Medical Students and Primary Care Physicians                                                                                                                                                                             |
|           | Carl J Shapiro Institute for Education and Research, Harvard Medical<br>School and Beth Israel Deaconess Medical Center                                                                                                                         |
|           | This project developed an online dermatology consult for medical students<br>and primary care physicians that would generate a differential diagnosis of<br>common skin disease based on input description and features of a rash or<br>lesion. |

## **Report of Local Teaching and Training**

### **Teaching of Students in Courses**

|           |                                                         |                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1984-1985 | Core Clinical Clerkship in Dermatology                  | Harvard Medical School                                                                                                                                                                            |
|           | Entire 3 <sup>rd</sup> year class                       | Co-organizer – Developed curriculum, organized lectures and arranged patient viewing                                                                                                              |
| 1988-1995 | Pathophysiology of Skin                                 | Harvard Medical School                                                                                                                                                                            |
|           | 2 <sup>nd</sup> year class                              | Lecturer and small group leader                                                                                                                                                                   |
| 1996-2006 | Human Systems Module 1                                  | Harvard Medical School                                                                                                                                                                            |
|           | 2 <sup>nd</sup> year class                              | Co-Director Pathophysiology of Skin. Developed curriculum, organized lectures, arranged small group sessions, developed course web site, lectured and led small group session.                    |
| 1997-1998 | Dermatology Teaching Module for Virtual Patient Project | Harvard Medical School                                                                                                                                                                            |
|           | all classes                                             | Developer. Developed a Multimedia Teaching Module in Dermatology to teach students basics of history taking, physical examination and office procedures in evaluating patients with skin disease. |

### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

|           |                                                                         |                                                                                                            |
|-----------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1985-1992 | Harvard School of Public Health                                         | Annual lecture on occupational skin disease                                                                |
|           | Graduate students of occupational health                                |                                                                                                            |
| 1985-1998 | Beth Israel Deaconess Medical Center, Dermatology Seminars. Co-director | Twice-monthly, 1-hour session for the full year devoted to teaching clinical dermatology and basic science |
|           | Dermatology residents                                                   |                                                                                                            |
| 1998-2003 | Harvard Medical School Department of Dermatology, Journal Club          | Monthly, 1-hour session for a half year devoted to teaching principles of evidence-based medicine          |
|           | Dermatology residents                                                   |                                                                                                            |
| 2003-     | Harvard Medical School Department of                                    | One to three 1-hour sessions                                                                               |

|         |                           |                                                           |
|---------|---------------------------|-----------------------------------------------------------|
| Present | Dermatology, Journal Club | devoted to teaching principles of evidence-based medicine |
|         | Dermatology residents     |                                                           |

### **Clinical Supervisory and Training Responsibilities**

|              |                                                                   |                                |
|--------------|-------------------------------------------------------------------|--------------------------------|
| 1985-2008    | Dermatology clinic preceptor/Beth Israel Deaconess Medical Center | One half day session per week  |
| 2008-Present | Dermatology clinic preceptor/Beth Israel Deaconess Medical Center | Two half day sessions per week |

### **Laboratory and Other Research Supervisory and Training Responsibilities**

|           |                                                                                                                |                              |
|-----------|----------------------------------------------------------------------------------------------------------------|------------------------------|
| 1991-1996 | Supervision of post-doctoral research fellow/Cutaneous Biology Research Center, Massachusetts General Hospital | Daily mentorship for 7 years |
|-----------|----------------------------------------------------------------------------------------------------------------|------------------------------|

### **Formal Teaching of Peers (e.g., CME and other continuing education courses)**

|           |                                                 |                         |
|-----------|-------------------------------------------------|-------------------------|
| 1995-1998 | Practical Dermatology for the Non-dermatologist | Annual one hour lecture |
|           | Harvard Medical School CME                      |                         |

### **Local Invited Presentations**

|      |                                        |
|------|----------------------------------------|
| 1995 | Drug Eruptions:95/Medical Grand rounds |
|      | Massachusetts General Hospital         |

### **Report of Regional, National and International Invited Teaching and Presentations**

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| 1996-2007 | Focus session director, Forum director, Symposium lecturer, and Symposium director. |
|           | American Academy of Dermatology Annual Meeting.                                     |
| 1998      | Evidence-based Medicine Dermatology/ Lecture.                                       |



|      |                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Teacher Exchange Group, Association of Professors of Dermatology.                                                                                      |
| 1999 | Evidence-based Medicine/ Lecture.                                                                                                                      |
|      | Quinsigamond Dermatological Society, University of Massachusetts.                                                                                      |
| 1999 | Emerging Trends in Dermatology/ Lecture.                                                                                                               |
|      | Association of Professors of Dermatology.                                                                                                              |
| 2000 | Evidence-based dermatology/Grand Rounds.                                                                                                               |
|      | New York University School of Medicine.                                                                                                                |
| 2000 | Dermatology Dilemmas in the New Millennium/Plenary Session.                                                                                            |
|      | American Academy of Dermatology Summer Meeting.                                                                                                        |
| 2000 | Grand Rounds.                                                                                                                                          |
|      | Department of Dermatology, University of Cincinnati.                                                                                                   |
| 2000 | When Evidence and Experience Conflict/Grand Rounds.                                                                                                    |
|      | Philadelphia Dermatologic Society.                                                                                                                     |
| 2000 | Lecture.                                                                                                                                               |
|      | Brown University Dermatology Clinical Conference.                                                                                                      |
| 2001 | Lecture, Boston University, Department of Dermatology.                                                                                                 |
| 2001 | Dickey Lecturer. Department of Dermatology. Geisinger Medical Center, Danville PA.                                                                     |
| 2001 | Grand Rounds. Department of Dermatology, Henry Ford Hospital.                                                                                          |
| 2002 | Lecture. Bullous Diseases. American Academy of Allergy and Immunology Intensive Review of Adult and Pediatric Allergy and Immunology Course.           |
| 2002 | Director – Evidence-based Medicine Symposium. World Congress of Dermatology. Paris, France.                                                            |
| 2002 | Pommerening Memorial Lecture, Washington State Dermatology Association.                                                                                |
| 2002 | Lecture. Recognizing, Evaluating and Managing Adverse Cutaneous reactions.<br>American Society of Health-Systems Pharmacists Midyear Clinical Meeting. |
| 2003 | Alexander Fisher Lecturer. American Contact Dermatitis Society Annual Meeting.                                                                         |
| 2003 | Workshop, Evidence-based Dermatology, 12 <sup>th</sup> European Academy of Dermatology and Venereology, Barcelona, Spain.                              |
| 2004 | Lecture, H&H Dermatology Seminar, Santa Fe, New Mexico.                                                                                                |
| 2004 | Lecture, FDA Center for Drug Evaluation and Research, Clinical Reviews Update Series – Dermatology Update.                                             |
| 2006 | Speaker, New Mexico Dermatological Society annual meeting.                                                                                             |
| 2006 | Lectures: Management of Common Dermatologic Problems, Dermatology Diagnosis, Internal Medicine 2006, American College of Physicians.                   |
| 2006 | Course Director, Case Reports and Case Series Are Essential, American Academy of Dermatology Annual Meeting.                                           |
| 2007 | Lectures: Management of Common Dermatologic Problems, Dermatology Diagnosis, Internal Medicine 2007, American College of Physicians                    |

|          |                                                                                                                                                 |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 2007     | Course Director, Case Reports and Case Series Are Essential, American Academy of Dermatology Annual Meeting.                                    |
| 2007     | Plenary Session, Dermatology and the FDA, American Academy of Dermatology Annual Meeting.                                                       |
| 2007     | Workshop Chairman, The Critical Analysis of the Scientific Literature, 21 <sup>st</sup> World Congress of Dermatology, Buenos Aires, Argentina. |
| 2008     | Symposium Director, Modern Dermatological Therapy, American Academy of Dermatology Annual Meeting.                                              |
| 2008     | Lecture, Multiple Small Feedings of the Mind, Internal Medicine 2008, American College of Physicians.                                           |
| 2009     | Symposium Director, Modern Dermatological Therapy, American Academy of Dermatology Annual Meeting.                                              |
| 2010     | Symposium Director, Modern Dermatological Therapy, American Academy of Dermatology Annual Meeting.                                              |
| 2010     | Lectures: Management of Common Dermatologic Problems, Dermatology Diagnosis, Internal Medicine 2006, American College of Physicians.            |
| 2011     | Symposium Director: Evidence-based Dermatology. American Academy of Dermatology Annual Meeting:                                                 |
| 2012-214 | Symposium Director: Common, Challenging and Controversial Short Topics in Patient Management. American Academy of Dermatology Annual Meeting    |
| 2014     | Lecturer, Tufts Medical Center Department of Dermatology                                                                                        |
| 2015     | Speaker, Controversies in Dermatology, World Congress of Dermatology, Vancouver Canada                                                          |

## **Report of Clinical Activities and Innovations**

### **Licensure**

|           |                                                  |
|-----------|--------------------------------------------------|
| 1978-1990 | Washington License Registration                  |
| 1979      | American Board of Internal Medicine, Certificate |
| 1981-     | Massachusetts License Registration               |
| 1985      | American Board of Dermatology, Certificate       |

### **Practice Activities**

|                  |                                      |                                                        |
|------------------|--------------------------------------|--------------------------------------------------------|
| Active staff     | Beth Israel Deaconess Medical Center | Beth Israel Deaconess Medical Center, Dept Dermatology |
| Consulting Staff | Martha's Vineyard Hospital           | Martha's Vineyard Hospital, Oak Bluffs, MA             |

|               |                            |                                                                       |
|---------------|----------------------------|-----------------------------------------------------------------------|
| Dermatologist | Martha's Vineyard Hospital | Vineyard Dermatology,<br>Martha's Vineyard Hospital,<br>Oak Bluffs MA |
|---------------|----------------------------|-----------------------------------------------------------------------|

### **Clinical Innovations**

I helped lead the development of evidence-based medicine in the field of dermatology. One of the most challenging issues facing our specialty is to change the paradigm that clinical decisions can be made on the basis of understanding the pathophysiology of diseases, logic, trial and error, and non-systematic observation. The goal of helping dermatologists base their practice on the best, currently available evidence has been aided by publication of an issue of the Archives of Dermatology devoted to evidence based dermatology in December of 1998, of which I was the editor, and the establishment of a section of the Archives devoted to evidence based dermatology of which I am the editor. I was a co-editor of the first and only textbook of evidence-based dermatology. I was responsible for the toolbox section of the book where the principles and practice of evidence-based medicine are detailed. I wrote 8 chapters and edited a section of the book dealing predominately with autoimmune skin diseases.

### **Report of Education of Patients and Service to the Community**

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| 1990-1996 | MGH-Timilty Partnership Project/Science Fair Mentor                   |
| 1991-1997 | Lupus Foundation of America, Massachusetts Chapter/Board of Directors |
| 2001-2010 | Lupus Foundation of New England/Board of Directors                    |
| 2006-2008 | Lupus Foundation of New England/Chairman, Board of Directors          |
| 2009-2010 | Lupus Foundation of New England/Secretary                             |

### **Report of Scholarship**

#### **Peer reviewed publications in print or other media**

#### **Research Investigations**

1. Stern RS, **Bigby M**. An expanded profile of cutaneous reactions to non-steroidal anti-inflammatory drugs: Reports to a specialty-based system for spontaneous reporting of adverse reactions to drugs. JAMA 1984;252:1433-37.
2. **Bigby M**, Stern RS. Cutaneous reactions to nonsteroidal anti-inflammatory drugs. J Am Acad Dermatol 1985;12:866-76.
3. **Bigby M**, Stern RS, Bigby J. An evaluation of method reporting and use in clinical trials in dermatology. Arch Dermatol 1985;121:1394-99.
4. **Bigby M**, Jick S, Jick H, Arndt KA. Drug induced cutaneous reactions: A report from the Boston Collaborative Drug Surveillance Program on 15,791 Consecutive Inpatients. 1975-82. JAMA 1986;256:3358-63.

5. **Bigby M**, Kwan T, Sy M-S. The ratio of Langerhans cells to Thy-1<sup>+</sup> dendritic epidermal cells in murine epidermis influences the intensity of contact hypersensitivity. *J Invest Dermatol* 1987;89:495-99.
6. Wang PTH, **Bigby M**, Sy M-S. Selective down modulation of L3T4 molecules on murine thymocytes by the tumor promoter, phorbol 12-myristate 13 acetate. *J Immunol* 1987;139:2157-65.
7. **Bigby M**, Stern RS. Adverse reactions to isotretinoin: a report from the adverse drug reaction reporting system. *J Am Acad Dermatol* 1988;18:543-52.
8. Sleckman BP, **Bigby M**, Greenstein JL, Burakoff SJ, Sy MS, Requirements for Modulation of the CD4 Molecule in Response to PMA: Role of the Cytoplasmic Domain. *J. Immunol* 1989;142:1457-62.
9. **Bigby M**, Vargas R, Sy M-S. Production of antigen specific T-cell hybridomas and their use to study the effects of UVB irradiation on the development of contact hypersensitivity. *J. Immunol* 1989;143:3867-72.
10. **Bigby M**, Stern RS, Arndt KA. Allergic cutaneous reactions to drugs. *Prim Care*. 1989 Sep;16(3):713-27.
11. **Bigby M**, Wang P, Fierro JF, Sy M-S. Phorbol-myristate-acetate induced down modulation of CD4 is dependent on calmodulin and intracellular calcium. *J Immunol* 1990;144:3111-16.
12. Kalivas J, Breneman D, Tharp M, Bruce S, **Bigby M**. Urticaria: clinical efficacy of cetirizine in comparison with hydroxyzine and placebo. *J Allergy Clin Immunol* 1990;86:1014-18.
13. Phillips TJ, **Bigby M**, Bercovitch L. Cultured allografts as an adjunct to the medical treatment of problematic leg ulcers. *Arch Dermatol* 1991;127:799-801.
14. Dunn DA, Gadenne A-S, Simha S, Lerner EA, **Bigby M**, Bleicher PA. T-cell receptor V<sub>β</sub> expression in normal human skin. *Proc Natl Acad Sci USA* 1993;90:1257-71.
15. **Bigby M**, Markowitz JS, Bleicher PA, Grusby MJ, Simha S, Siebrecht M, Wagner M, Nagler-Anderson C, Glimcher LH. Most γδ T cells develop normally in the absence of MHC class II molecules. *J Immunol* 1993;151:4465-75.
16. Guo Y-J, Ma J, Wang J-H, Lin S-C, Chang, H-C, **Bigby M**, Sy M-S. Monoclonal anti-CD44 antibody acts in synergy with anti-CD2 but inhibits anti-CD3 or T cell receptor mediated signaling in murine T cell hybridomas. *Cellular Immunol* 1993;152:186-99.
17. Guo Y-J, Lin S-C, Wang J-H, **Bigby M**, and Sy M-S. Palmitoylation of CD44

- interferes with CD3-mediated signaling in human T lymphocytes. *International Immunology* 1994;6:213-21.
18. Guo Y, Ma J, Wang J-H, Che X, Narula J, **Bigby M**, Wu M and Sy M-S. Inhibition of human melanoma growth and metastasis *in Vivo* by anti-CD44 monoclonal antibody. *Cancer Research* 1994;54:1561-65.
  19. Ma J, Wang J-H, Sy M-S, Guo Y-J, Hauser C, **Bigby M**. Trinitrophenol reactive T-cell hybridomas recognize antigens that require antigen processing. *J Invest Dermatol*, 1994;103:42-48.
  20. Gadenne, A-S, Strucke, R, Dunn, D, Wagner, M, Bleicher, P and **Bigby, M**. T-Cell Lines Derived from Lesional Skin of Lichen Planus Patients Contain a Distinctive Population of T Cell Receptor  $\gamma\delta$  Bearing Cells. *J Invest Dermatol*, 1994;103:347-51
  21. Ma J, Wang J-H, Guo Y-J, Sy M-S and **Bigby M**. *In Vivo* Treatment with Anti-ICAM-1 and Anti-LFA-1 Antibodies Inhibits Contact Sensitization Induced Migration of Epidermal Langerhans Cells to Regional Lymph Nodes. *Cellular Immunol*, 1994, 158:389-99.
  22. Georgopoulos K, **Bigby M**, Wang J-H, Molnar A, Wu P, Winandy S and Sharpe A. The Ikaros gene is required for the development of all lymphoid lineages. *Cell*, 1994, 79:143-56.
  23. Wang J-H, Nichogiannopoulou A, Wu I, Sun L, Sharpe A, **Bigby M** and Georgopoulos K. Selective defects in the development of the fetal and adult lymphoid system in mice with an Ikaros null mutation. *Immunity*, 1996;5:537-549.
  24. **Bigby M**, Gadenne A-S. Understanding and evaluating clinical trials. *J Am Acad Dermatol* 1996, 34:555-583.
  25. **Bigby M**. Evidence-based medicine in a nutshell: finding and using the best evidence in caring for patients. *Arch Dermatol* 1998, 134:1609-17.
  26. Sugerman PB, **Bigby M**. Preliminary functional analysis of human epidermal T cells. *Arch Derm Res* 2000; 292: 9-15.
  27. **Bigby M**. Evidence-based medicine in dermatology. *Dermatologic Clinics*. 2000;18:261-76.
  28. Sugerman PB, Savage NW, Zhou X, Walsh LJ, **Bigby M**. Oral lichen planus. *Clin Dermatol*. 2000 Sep-Oct;18(5):533-9. Review.
  29. Tsao H, Nadiminti U, Sober AJ, **Bigby M**. A meta-analysis of reverse transcriptase-polymerase chain reaction for tyrosinase mRNA as a marker for circulating tumor cells in cutaneous melanoma. *Arch Dermatol*. 2001 Mar;137(3):325-30.

30. **Bigby M.** Rates of cutaneous reactions to drugs. *Arch Dermatol.* 2001 Jun;137(6):765-70.
31. **Bigby M,** Gibbs S, Harvey I, Sterling J. Skin disorders/Non-genital warts. In *Clinical Evidence* Issue 7 2002:1530-42.
32. Sugerman PB, Savage NW, Walsh LJ, Zhao ZZ, Zhou XJ, Khan A, Seymour GJ, **Bigby M.** The pathogenesis of oral lichen planus. *Crit Rev Oral Biol Med* 2002;13:350-65.
33. Albrecht J, Meves A, **Bigby M.** Case reports and series have significant impact on the medical literature – a survey from the Lancet. *J Clin Epidemiology* 2005;58(12):1227-32. Epub 2005 Sep 12.
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35. Albrecht J, Meves A, **Bigby M.** A survey of case reports and case series of therapeutic interventions in the Archives of Dermatology. *Int J Dermatol.* 2009;48:592-7.
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