The accomplished faculty of Obstetrics & Gynecology include:

- board of trustee members of the Association of Professors of Obstetrics and Gynecology and the UMEC (Undergraduate Medical Education Committee);
- president-elect and immediate past-president of the American Urogynecologic Society;
- APGO-Solvay fellowship scholars for five consecutive years; and
- specialists in gynecologic oncology, menopause, maternal-fetal medicine and urogynecology.

The mission of the Department of Obstetrics & Gynecology is to deliver exemplary patient care in ambulatory and inpatient settings while providing cutting-edge education in obstetrics, gynecology and human reproduction. The primary objectives of the department are to: develop clinical care programs that are high quality and patient-focused; perform research that improves quality of future care for our community; provide culturally appropriate education of patients and students; provide services that improve the quality of life in the community; and offer students exposure to the academic and practical aspects of obstetrics, gynecology and related sub-specialties.

The department provides students with the opportunity to gain the knowledge and clinical skills that are fundamental to the practice of women’s health. Reproductive pathophysiology is taught in the first and second years of medical school. Also in the first year, the Maternal-Child Health Program allows students to have a longitudinal experience with individual patients during their pregnancy, delivery and early infant period. The major clinical experience for medical students occurs during the six-week, third-year clerkship in inpatient and ambulatory settings. Opportunities are also available for a continuing relationship with a single mentor during medical school through the Longitudinal Preceptorship Program. Fourth-year electives include general obstetrics and gynecology as well as intensive learning experiences in all of the subspecialty areas.

Students develop history-taking and physical examination skills in both obstetrics & gynecology and the field’s four sub-specialties. Communication, learning to be an educator and sensitivity to cultural issues are emphasized. The obstetric experience includes prenatal care, complicated pregnancy, normal and abnormal labor, childbirth and operative delivery. In gynecology, students learn about preventive reproductive health examinations, family planning, treatment of benign disease, as well as cancers of the reproductive tract and infertility evaluations. The diagnosis and treatment of pelvic floor dysfunction and incontinence are also covered. The department offers fourth-year electives and clerkships in gynecologic oncology, urogynecology, reproductive endocrinology and infertility, maternal-fetal medicine, ambulatory obstetrics and gynecology, and a flexible elective that allows students to create their own experience in the field.

Students also participate in the educational components of the residency program. This program features innovative experiences in simulation; the gross anatomy laboratory for pelvic and perineal dissection; curricula in effective communication with patients and referring physicians, patients and staff; and Health Care Economics, which encompasses billing, coding and documentation, hospital and medical group economics, and state and federal health care policy and advocacy.

Obstetrics & Gynecology is actively engaged in research in the areas of cancers of the reproductive tract, infertility outcomes, estrogen metabolism, pelvic floor disorders, urinary and anal incontinence, HIV infection in pregnancy, psychosocial stressors in pregnancy outcomes, multiple gestations, vaginal birth after cesarean section, obstetric trauma, perinatal epidemiology, occupational reproductive hazards and perinatal outcomes research.

**Obstetrics & Gynecology Faculty**

**Professor and Chair**

Julia V. Johnson, BS, California/Davis, 1976; MD, Medical College of Georgia, 1984

**Professor Emeritus**

Richard E. Hunter, AB, Clark, 1941; MD, Boston, 1944

**Professors**

- Michael P. Aronson, BA, Tufts, 1973; MD, 1985
- Harrison G. Ball, BS, Saint Joseph’s, 1967; MD, Tufts, 1972
- Francis J. Bednarek, BS, King’s, 1966; MD, Loyola, 1970
- Marianne E. Felice, BA, Carlow, 1966; MD, Hershey, 1972
- Karen W. Green, BA, Rochester, 1968; MD, North Carolina, 1972
- Thomas F. Halpin, BS, Boston College, 1959; MD, Harvard, 1963
- Machelle M. Seibel, BA, Texas, 1971; MD, 1975

**Associate Professors**

- Robert E. Berry Jr., BA, Williams, 1979; MD, Virginia, 1983
- Brian M. Clark, AB, Colby, 1985; MD, Vermont, 1994
- Ellen M. Delpapa, BS, St. Elizabeth, 1980; MD, New Jersey, 1984
- Abraham N. Morse, BA, Swarthmore, 1988; MD, Harvard, 1993
- Phyllis Pollack, BS, Michigan, 1972; MD, Harvard, 1977
- Jami A. Star, BA, Brown, 1981; MD, SUNY Stony Brook, 1986
- Susan Zweizig, BA, California, 1980; MD, Harvard, 1985

* joint appointment
Assistant Professors

Alan J. Albert, BA, SUNY Binghamton, 1973; MD, Guadalajara, 1977
Patricia K. Aronson, BA, Brown, 1980; MD, Eastern Virginia Medical, 1983
*Stephen A. Bean, BA, Hamilton, 1984; MS, Georgetown, 1986; MD, 1990
Petra H. Belady, BS, Cornell, 1987; MD, Texas, 1991
Shaila Chauhan, MD, Bombay, 1965
Leonard DiGiovanni, BS, Northeastern Missouri State, 1981; DO, Kirksville College of Osteopathic Medicine, 1985
Matthew A. Esposito, BA, Williams, 1990; MD, Rochester, 1994
*Alan J. Flint, BA, Tufts, 1985; MD, Pittsburgh, 1989; MPH, California/Berkeley, 1995
Finda L. Guyton, BA, Boston, 1993; MD, Albert Einstein, 1999
Todd W. Hunter, AB, Colby, 1968; MD, Boston, 1973
David A. Klein, BA, SUNY Binghamton, 1989; MD, Tufts, 1993
Alison C. Madden, BA, Barnard College, Columbia, 1991; MD, Cornell, 1995
Mark J. Manning, BS, Notre Dame, 1991; DO, New England
B. Dale Magee, MD, SUNY Upstate, 1975; MPH, Dartmouth, 1998
Aaron M. Mendel, BS, Michigan, 1981; MD, 1985
Katharine K. O'Dell, BA, Graceland, 1996; MS, Case Western Reserve, 1997; PhD, UMass Worcester, 2006

Affiliates
Don P. Deprez, BS, Cornell, 1970; MD, Tufts, 1977
Patrick P. Hogan, MBCh, University College, 1972
Susan Kraft, BS, Illinois, 1974; MD, 1978

Instructors
Mark A. Aversa, BS, St. Michael's, 1977; MD, New York Medical, 1982
Patricia D Chernosky, BS, Union, 1992; MD, Albany Medical, 1995
Peter C. Davido, MD, Tufts, 1986
John Farricy, BS, Boston College, 1969; MD, Georgetown, 1973
Abraham Fischer, MD, UMass Worcester, 1986
Mary Elizabeth Gamache, BS, Salve Regina, 1983; MS, Boston College, 1993
Diego Ilanes, MD, Catholic University, 1999
Julie King, BA, Boston College, 2000; MS, UMass Worcester, 2007
Joelle J. Lieman, BS, McGill, 1992; MD, Ross, 1998
Maria Narducci, MD, Connecticut, 1991
Sheila B. Noone, BS, Worcester State, 1984; MPH, Boston, 1986; PhD, Union Institute, 2000
June Ramsaran, BA, Boston, 1982; MD, Royal College of Surgeons, 1988
Andrea M. Pezzella, BS, Syracuse, 1991; MD, St. Louis, 1996
Diane M. Pingeton, BS, Fitchburg State, 1982; MD, UMass Worcester, 1994
Katherine A. Van Savage, BS, Boston College, 1990; MD, SUNY Syracuse, 1998
Emily E. Weber LeBrun, BA, Mount Holyoke, 1996; MD, Florida, 2003
Patricia A. Yranski, BSN, Boston College, 1979; MS, 1998

* joint appointment
The Department of Ophthalmology was re-established at UMass Medical School in 2009 under the chairmanship of Shalesh Kaushal, MD, PhD. The new department will be involved in all aspects of clinical ophthalmology and will provide clinical specialty care in vitreo-retinal diseases, neuro-ophthalmology, glaucoma, oculo-plastics, pediatrics, anterior segment diseases, as well as comprehensive eye care. The department has extensive oculo-diagnostic capabilities including electrotinography, ultrasonography, visual field testing, ocular coherence tomography, microperimetry, and ophthalmic retinal photography and angiography. Anterior and posterior segment laser modalities are also available.

Ophthalmology Faculty

**Associate Professor and Chair**
Shalesh Kaushal, BS, Yale, 1983; MD, Johns Hopkins 1988; PhD, 1993

**Professor**
George K. Asdourian, BS, American (Lebanon) 1966; MD, 1970

Clinical Associate Professor
Edward Kazarian, BA, Adelphi, 1969; MD, St. Louis, 1973

Assistant Professors
Michael J. Bradbury, BS, Brooklyn, 1969; MD, Georgetown, 1973
Diane P. Karalekas, BS, MIT, 1983; MD, Cornell, 1989
Alan P. Moss, BA, Vermont, 1969; MD, 1973
Pascale Perusse, MD, Sherbrooke, 1981
Joseph M. Williams, BA, BS, Rochester, 1978; MS, 1986; MD, PhD, 1989

Clinical Assistant Professor
William T. Tang, BA, Baylor, 1989; MD, Johns Hopkins, 1993

Affiliates
Melvyn H. Defrin, BEE, CUNY, 1966; MD, SUNY Stony Brook, 1975
Richard M. Eisenberg, BA, Pennsylvania, 1976; MD, Medical College of Pennsylvania, 1980
Denis J. Fitzgerald, BA, Brown, 1962; MD, New Jersey, 1967
Robert Gise, BA, Brown, 1971; MD, Boston, 1975
Jeffrey D. Levine, BA, Princeton, 1970; MD, Catholic (Belgium), 1977
Glenn A. Meltzer, BA, Clark, 1962; MD, Cornell, 1966
Willard G. Rice Jr., AB, Amherst, 1964; MD, Tufts, 1968

The Department of Ophthalmology is distinguished for:
- leadership from an international expert in vitreo-retinal disorders, who was the world’s first investigator to use complement inhibitor molecules to treat patients; and
- expertise in basic and translational research, including gene therapy and stem cell therapy, to develop therapies for retinal and optic nerve disorders.

The department has already established programs in basic research involving gene therapy as well as stem cell research. Investigations in hereditary retinal diseases, as well as degenerative retinal diseases have begun. Apart from basic research, the department will be involved in several clinical studies including age-related macular degeneration and retinitis pigmentosa.
Orthopedics & Physical Rehabilitation

The Department of Orthopedics & Physical Rehabilitation features world-class, comprehensive and multidisciplinary subspecialty centers of excellence for central New England, including:

- Arthritis and Joint Replacement Center, a patient-centered program dedicated to arthritis and joint pain (Memorial Campus);
- Foot and Ankle Center, dedicated to treatment of the full range of foot and ankle conditions (Hahnemann Campus);
- Hand/Upper Extremity Center, dedicated to the treatment of a full range of hand and upper extremity conditions (Hahnemann Campus);
- Pediatric Orthopedic Center, dedicated to the treatment of the full range of pediatric orthopedic conditions and injuries (University Campus);
- Sports Medicine Center, dedicated to the prevention, diagnosis and treatment of all athletic injuries (Hahnemann Campus);
- Spine Center, a state-of-the-art facility offering expert care for congenital, degenerative and traumatic spinal disorders in adults (Memorial Campus); and
- Trauma and Fracture Center, dedicated to the diagnosis and treatment of orthopedic injuries and fractures (University Campus).

“Our academic programs effectively blend caring for the patient with involvement in the community.”

Yvonne A. Shelton, MD
Assistant Professor of Orthopedics & Physical Rehabilitation and Pediatrics

Dr. Shelton believes this blending is because students are getting their medical education in their own backyard, close to where they grew up and, hopefully, will stay. “As a clinical faculty member, I try to convey that we are caring for people, not just a disease or syndrome, and that these people and their health and medical issues exist mainly out of our domain. We are trying to bring what we know to help them deal with these issues.”
UMMS offers two electives that require medicine and surgery clerkships. The first, recommended for fourth-year students who intend to pursue a residency in orthopedic surgery, is an in-depth course in musculoskeletal disorders, emphasizing inpatient and outpatient diagnosis and management of a wide variety of musculoskeletal disorders. Students will gain experience in diagnostic methods, surgical procedures, postoperative care and non-operative treatment of musculoskeletal conditions.

The second elective is recommended for fourth-year students who intend to pursue a residency other than orthopedic surgery, such as family practice, rheumatology, neurology, radiology, pediatrics, anesthesiology, physical medicine and rehabilitation, plastic surgery, emergency medicine, occupational medicine and infectious diseases. It is an in-depth and faculty-supervised overview of outpatient musculoskeletal problems that aims to develop skills in history taking, physical examination, and diagnosis and treatment of a broad spectrum of musculoskeletal diseases.

Orthopedics & Physical Rehabilitation Faculty

Professor and Chair
The Arthur M. Pappas Chair in Orthopedics
David C. Ayers, BS, Tufts, 1979; MD, Rochester, 1982
The Joy McCann Professor for Women in Medicine
Patricia Franklin, AB, Holy Cross, 1979; MD, Rochester, 1983; MBA, 1986; MPH, 1989

Professors
Daniel T. Baran, BS, Boston College, 1968; MD, Rochester, 1973
Norman E. Belsaw, AB, Bowdoin, 1958; MD, New York, 1962
Arthur M. Pappas, AB, Harvard, 1953; MD, Rochester, 1957

Clinical Professors
Patrick J. Connolly, BS, Columbia, 1980; MD, Northwestern, 1984
Walter J. Leclair, AB, Boston, 1975; MD, UMass Worcester, 1979
Faren H. Williams, BS, Albright, 1972; MS, Maryland, 1973; MD, Wright State, 1983

Associate Professors
Thomas F. Breen, BA, Williams, 1976; MD, Vermont, 1981
Marcy Jones, BA, Johns Hopkins, 1989; MD, Vermont, 1994

Clinical Associate Professors
Kirk H. Johnson, BA, Tufts, 1973; MD, Vermont, 1977
Mark S. Kaplan, BS, MIT, 1982; MD, New York Medical College, 1990

Assistant Professors
Amy E. Abbot, BS, Mount Holyoke, 1989; MS, Washington, 1993; MD, Cornell, 2000
Michael A. Brown, BS, MIT, 1991; MD, Georgetown, 1995
Edward R. Calkins, BS, California, 1976; MD, Southern California, 1980
Jason C. Eck, BS, Catholic University, 1993; MS, Marquette, 1996; MD, Health Sciences College of Osteopathic Medicine, 2002
Paul J. Fanning, BS, Merrimack, 1986; PhD, Harvard, 1999
Lorenzo Gamez, BS, Rutgers, 1991; MD, Universidad Autonoma de Guadalajara, 2000
David M. Grygier, BFA, Miami, 1977; MFA, 1980; MD, SUNY, 1990
Hwa H. Hsieh, MD, Kaohsiung, 1967
Philip J. Lahey Jr., BS, Holy Cross, 1969; MD, Tufts, 1973
Anthony S. Lapinsky, BS, Cornell, 1983; MD, Syracuse, 1987
Thur T. Malikowski, BS, Marquette, 1997; MD, Wisconsin, 2001
David A. Mazin, BS, Trinity College, 1999; MD, New York Medical College, 2003
Jeffrey N. Metzmaker, BS, St. Louis, 1970; MD, Baylor, 1973
Errol S. Morstimer, BS, McGill, 1982; MD, 1986
Matthew J. Most, BS, SUNY Buffalo, 1998; MD, SUNY Upstate, 2002
Abhay R. Patel, BA/MD, Boston, 2000
William D. Shea, BS, St. Francis Xavier, 1960; MD, Ottawa, 1964
Yvonne A. Shelton, BA, Princeton, 1979; MD, George Washington, 1984

Judith A. Siegel, BS, Marietta College, 1995; MS, Ohio, 1998; MD, Temple, 2002
Jie Song, BS, Fudan, Shanghai, 1995; PhD, Michigan State, 1999

Clinical Assistant Professors
Herbert Bote, BS, Loyola, 1987; MD, 1991
Jeffrey Cella, BS, Tufts, 1978; MD, Pennsylvania, 1982
Anthony DeFelice, BS, Yale, 1985; DO, College of Osteopathic Medicine, 1992
Andrew DeMaglio, BS, Troy State, 1991; MD, Wayne State, 1997
Kevin Mitts, BA, Humboldt State, 1985; MD, F. Edward Hebert School of Medicine, 1989

Affiliates
Peter P. Anas, BS, MS, Tufts, 1971; MD, UMass Worcester, 1975
Albert A. Bravo, BS, Cornell, 1980; DPM, Pennsylvania College of Podiatric Medicine, 1984
Raymond J. Chagnon, BA, Assumption, 1974; MD, Vermont, 1978
Russell W. Courmoyer Jr., BS, Massachusetts College of Pharmacy, 1974; DPM, Pennsylvania College of Podiatric Medicine, 1984
John George, DPM, Ohio College of Podiatric Medicine, 1964
Marshall Katzen, BA, Cornell, 1968; MD, Tufts, 1972
Joseph A. Veneziano, BS, St. John’s, 1963; MD, New York Medical, 1967

Instructors
Donald H. Hangen, BA, Williams, 1982; MD, Stanford, 1987
Israel S. Hurwitz, BA, Cornell, 1952; MD, Tufts, 1956
Steven H. Sewall, MD, Cornell, 1965
Markian D. Stecyk, BA, Boston, 1978; MD, Tufts, 1982
Harvey A. Taylor, BS, CUNY, 1965; MD, SUNY, 1969
Otolaryngology - Head and Neck Surgery

With its clinical partner, UMass Memorial Health Care, Otolaryngology features:
- a regionally renowned pediatric and adult cochlear implant program that provides complete evaluation screening, surgery and extensive rehabilitation services for patients with hearing disabilities;
- comprehensive multidisciplinary diagnosis and treatment of head and neck cancer;
- comprehensive surgical management of thyroid and parathyroid disease;
- state-of-the-art endoscopic sinus surgery;
- medical and surgical treatment of balance disorders;
- evaluation and management of tumors in the ear and temporal bone;
- evaluation and treatment of facial nerve paralysis;
- treatment of acute and chronic ear infection; and
- evaluation and surgical treatment of congenital ear malformations.

The Department of Otolaryngology strives to acquaint students with the many clinical issues affecting the ears, nose and throat, including head and neck surgery, pediatric otolaryngology, otology and neurotology.

Attending staff will supervise the students during all clinical activities. Students are allowed increasing responsibility in accordance with their level of skills and fund of knowledge. Students are encouraged to participate in the full spectrum of patient care encompassed within the practice of otolaryngology. The attending staff member determines the degree of supervision indicated during a student’s participation in any given clinical situation to maintain the highest standards of patient care.

In the third year, students rotate through the otolaryngology clinics during the subspecialty portion of their Surgery clerkship. The faculty also presents a didactic series on the principles of head and neck surgery. Included are lectures and case presentations highlighting the major subdivisions of general and pediatric otolaryngology, endoscopic sinus surgery, otologic and neurorologic and skull base surgery, cochlear implantation in children and adults, and head and neck oncologic surgery and reconstruction.

An elective fourth-year clerkship is also offered for interested students who intend to pursue a career in otolaryngology or who wish to enter other fields but develop and refine their otolaryngologic diagnostic skills. Students work in both the outpatient and inpatient setting, participating in diagnosis, treatment and management of otolaryngologic problems and in a wide variety of surgical procedures and postoperative management. Research electives are also available.

Students rotating through the Department of Otolaryngology have a chance to be introduced to the six competencies required during future residency training:
1. Patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.
2. Medical knowledge about established and evolving biomedical, clinical and cognitive (e.g., epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.
3. Practice-based learning and improvement that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, and improvements in patient care.
4. Interpersonal and communication skills that result in effective information exchange and teaming with patients, their families and other health professionals.
5. Professionalism, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.
6. System-based practice, as manifested by actions that demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Otolaryngology Faculty

Professor and Chair
William G. Lavelle, BS, Marquette, 1963; MD, California/San Francisco, 1967
Professor
Richard R. Gacek, BS, Notre Dame, 1952; MD, Buffalo, 1956
Clinical Associate Professor
Daniel Y. Kim, BA, Boston, 1976; MD, Rutgers, 1980
Assistant Professors
James P. Hughes, BS, Michigan, 1967; MD, Wayne State, 1971; MBA, Clark, 1992; MHA, 1994
Syed Y. Kamil, MD, Khyber Medical, 1985
Weiru Shao, BA, California/Berkeley, 1994; MD, Utah, 1998
David B. Wexler, BA, Case Western Reserve, 1980; MD, Stanford, 1985
Clinical Assistant Professor
Adjunct Assistant Professor
Sarah Poissant, BA, Vermont, 1992; MA, Connecticut, 1994; PhD, 1999

(continued)
(Otolaryngology-Head and Neck Surgery continued)

Pathology

Pathology faculty have been widely recognized for their commitment to medical students through a number of UMMS teaching awards, including the:
- Lamar Soutter Award for Excellence in Medical Education;
- Educational Achievement Star Award;
- Retired and Outstanding Medical Educator Awards; and
- Faculty Marshall Award.

The Department of Pathology offers second-year medical students their first formal encounter with disease. It begins with a five-week introduction to the basic manifestations of disease at the cellular and tissue levels (General Pathology) and continues with an analysis of specific diseases as they affect all organs (except CNS) and systems (Systemic Pathology). This latter section is taught in an integrated manner with the Department of Medicine and other departments in the Biology of Disease course. This course provides students with an in-depth understanding of disease by correlating underlying molecular mechanisms with structural, functional and clinical aspects.

Diseases of the nervous system are taught as an integrated unit by the Pathology and Neurology departments in the Mind, Brain and Behavior II course. The Department of Pathology also co-directs and plays a major teaching role in the second-year Immunology course. This course provides students with an understanding of the basic mechanisms that protect the body against infectious agents and how these mechanisms contribute to diseases, including autoimmunity, immune deficiency and transplantation rejection.

Particularly significant among the department’s electives is the Student Fellowship Program. Selected students spend a year between their second and third years working in pathology, primarily in the autopsy and surgical pathology services. This experience has proven invaluable for students who are interested in clinical-pathologic correlations and who wish to gain an in-depth understanding of the mechanisms of disease. Shorter electives are also available for students in surgical or autopsy pathology. In addition, strong basic research programs are available, primarily in the area of immunology.

Laboratories in the department are investigating the immune response to viruses and cancers, antigen presentation, T-lymphocyte activation and T-cell development. Clinical research is focused on the study of varied aspects of pathogenesis, disease and diagnostic pathology.

Pathology Faculty

Professor and Chair

Professor and Vice Chair
Bruce A. Woda, BS, Brookyn, 1971; MD, SUNY Downstate, 1975

Professors Emeriti
Arthur A. Like, BS, CCNY, 1950; MD, Columbia, 1954
Guido Majno, MD, Milan, 1947
Liberto Pechet, MD, Hebrew, 1952
Irma O. Szymanski, MD, Helsinki, 1958
### Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie J. Berg</td>
<td>BA, Harvard, 1980; PhD, California, 1986</td>
</tr>
<tr>
<td>Stanley J. Cryz Jr.</td>
<td>BS, Connecticut, 1975; PhD, Texas Health Science, 1979</td>
</tr>
<tr>
<td>Andrew H. Fischer</td>
<td>BS, Cornell, 1979; MD, Brown, 1984</td>
</tr>
<tr>
<td>Armando E. Fraire</td>
<td>BS, Civil, 1957; MD, UNL Faculty of Medicine, 1964</td>
</tr>
<tr>
<td>Zhong Jiang</td>
<td>MD, Beijing, 1982</td>
</tr>
<tr>
<td>Ashraf Khan</td>
<td>BS, Aligarh, 1974; MBBS, 1980; MD, 1983; DRM, Royal College of Pathologists, 1991</td>
</tr>
<tr>
<td><em>Alan D. Michelson</em></td>
<td>MBBS, Adelaide, 1973</td>
</tr>
<tr>
<td>Herbert E. Nieburgs</td>
<td>MD, Bologna, 1938</td>
</tr>
<tr>
<td>Jerald Silverman</td>
<td>DVM, Cornell, 1966</td>
</tr>
<tr>
<td>Thomas W. Smith</td>
<td>BS, Ohio State, 1968; MD, Cornell, 1972</td>
</tr>
<tr>
<td>L. Michael Snyder</td>
<td>AB, Brown, 1957; MD, Chicago Medical, 1962</td>
</tr>
<tr>
<td>Lawrence J. Stern</td>
<td>BA, Cornell, 1983; PhD, MIT, 1989</td>
</tr>
<tr>
<td>Raymond M. Walsh Jr.</td>
<td>BS, UMass Amherst, 1967; PhD, 1972</td>
</tr>
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### Associate Professor Emerita

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
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<tbody>
<tr>
<td>Isabelle Joris</td>
<td>BS, Geneva, 1966; PhD, 1973</td>
</tr>
</tbody>
</table>

### Associate Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
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</thead>
<tbody>
<tr>
<td>April Deng</td>
<td>MD, Henan Medical University, 1983; PhD, Arkansas, 1994</td>
</tr>
<tr>
<td>Joonsoo Kang</td>
<td>BS, Toronto, 1986; PhD, 1993</td>
</tr>
<tr>
<td>Charles R. Kiefer</td>
<td>BS, Cincinnati, 1969; PhD, Medical College of Georgia, 1981</td>
</tr>
<tr>
<td>Liisa Selin</td>
<td>MD, Dalhousie, 1979; PhD, Manitoba, 1993</td>
</tr>
<tr>
<td>Jon M. Valigorsky</td>
<td>BS, Maryland, 1963; MD, 1968</td>
</tr>
</tbody>
</table>

### Clinical Associate Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joseph D. Musto</td>
<td>BS, Wagner, 1961; MS, Stevens Institute of Technology, 1967; PhD, Northeastern, 1975</td>
</tr>
<tr>
<td>Manju L. Prasad</td>
<td>MBBS, Banaras Hindu, 1981; MD, 1984</td>
</tr>
</tbody>
</table>

### Assistant Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gamze Ayata</td>
<td>MD, Hacettepe Medical, 1992</td>
</tr>
<tr>
<td>Gregory J. Babcock</td>
<td>BS, UMass Amherst, 1992; PhD, Tufts, 2000</td>
</tr>
<tr>
<td>Francis Ka-Ming Chan</td>
<td>BA, California, 1991; PhD, 1996</td>
</tr>
<tr>
<td>Marcia B. Cohen</td>
<td>BS, Wayne State, 1968; MS, 1970; MD, 1974</td>
</tr>
<tr>
<td>Teri L. Cooper</td>
<td>BS, Louisville, 1977; MD, 1981</td>
</tr>
<tr>
<td>Ediz Cosar</td>
<td>MD, Cukurova, 1998</td>
</tr>
<tr>
<td>Habib Sioufi</td>
<td>BS, French Lycee, Syria, 1972; MD, Damascus University Medical School, 1978; CES, Tours University Medical School, France, 1980</td>
</tr>
<tr>
<td>Suyang Hao</td>
<td>MD, Tianjin, 1983; MS, 1986</td>
</tr>
<tr>
<td>Catherine A. Hay</td>
<td>BPharm, School of Pharmacy, 1983; PhD, 1987</td>
</tr>
<tr>
<td>Eric Huseby</td>
<td>BS, Seattle, 1992; PhD, 2000</td>
</tr>
<tr>
<td>Patricia Miron</td>
<td>BS, Yale, 1983; PhD, MIT, 1991</td>
</tr>
<tr>
<td>Michael J. Mitchell</td>
<td>BS, Boston College, 1974; MD, Yale, 1978</td>
</tr>
<tr>
<td>John U. Que</td>
<td>BS, Santo Thomas, 1978; MS, Long Island, 1982; PhD, Texas Tech, 1985</td>
</tr>
<tr>
<td>Lokinendi V. Rao</td>
<td>BS, Osmania, 1976; MS, 1978; PhD, Kurukshestra, 1984</td>
</tr>
<tr>
<td>William D. Thomas</td>
<td>BS, Virginia Polytechnic, 1984; PhD, Medical College of Virginia, 1989</td>
</tr>
<tr>
<td>Guy M. Vallaro</td>
<td>BS, Pace, 1980; MS, New York Medical, 1989; PhD, St. John’s, 1997</td>
</tr>
<tr>
<td>James P. Yang</td>
<td>BS, Union, 1962; MD, Indiana, 1966</td>
</tr>
</tbody>
</table>

### Research Assistant Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roger S. Anderson</td>
<td>BS, Wisconsin, 1974; PhD, Cornell, 1978</td>
</tr>
<tr>
<td>Michael A. Brehm</td>
<td>BS, Philadelphia College of Pharmacy and Science, 1993; PhD, Pennsylvania State, 1999</td>
</tr>
<tr>
<td>Yuri N. Naumov</td>
<td>MD, Novosibirsk State Medical, 1983; PhD, Academy of Medical Sciences, 1988</td>
</tr>
<tr>
<td>Lianjun Shen</td>
<td>MD, Second Military Medical, 1985; PhD, Alberta, 1997</td>
</tr>
<tr>
<td>Alexander Sigalov</td>
<td>PhD, Moscow State University, Russia, 1984</td>
</tr>
<tr>
<td>Eva S. Szomolanyi-Tsuda</td>
<td>MD, Semmelweis Medical, 1976</td>
</tr>
<tr>
<td>James Weaver</td>
<td>BS, Bowling Green State, 1972; PhD, Nebraska, 1983</td>
</tr>
</tbody>
</table>

### Instructors

<table>
<thead>
<tr>
<th>Name</th>
<th>University and Degrees</th>
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<tbody>
<tr>
<td>Lloyd Hutchinson</td>
<td>PhD, McMaster, 1996</td>
</tr>
<tr>
<td>Matthew Juhascik</td>
<td>MD, BS, Dayton, 1999; MS, Illinois, 2000; PhD, 2005</td>
</tr>
<tr>
<td>Jerzy P. Sobota</td>
<td>MD, Nicolaus Copernicus, 1982</td>
</tr>
</tbody>
</table>

*joint appointment*
Pediatrics is distinguished by:
- a special immunology clinic for children with HIV that provides access to state-of-the-art treatment;
- a cystic fibrosis center that treats more patients with the disease than any other facility in Central and Western Massachusetts;
- a 43-bed Newborn Intensive Care Unit that has earned benchmark status as a model for similar units worldwide; and
- a juvenile diabetes center that is the only program in Central and Western Massachusetts to be certified by the American Diabetes Association.

The Department of Pediatrics introduces students to the career of pediatrician. During the four years of medical school, students learn how to diagnose and manage acute and chronic illnesses that are commonly seen in infants, children and adolescents. Students are also exposed to the biopsychosocial and developmental aspects of pediatrics. The curriculum helps students acquire the necessary skills to establish rapport with children and their parents in order to obtain a meaningful history, conduct a thorough physical examination, manage clinical problems, and serve as a child and family advocate. As a result of their pediatric experiences, students should be able to make an enlightened career choice concerning this specialty.

During the pre-clinical curriculum, faculty members participate in interdepartmental lectures and conferences on neuroanatomy, genetics, nutrition, microbiology, hematology, immunology and behavioral sciences that incorporate clinical correlations with the basic science topics the students are learning; the biopsychosocial aspects of health and disease in infants, children and adolescents are woven into this series.

Departmental faculty are course coordinators for the Nutrition course while others have specific teaching responsibilities in the Physician, Patient and Society course and the Longitudinal Preceptorship Program. In addition, Pediatrics has developed an elective seminar in Teen Pregnancy, which has been well received by students.

The third-year Pediatrics clerkship emphasizes clinical problem solving in both clinical situations and conferences. Half of the clerkship is spent in primary care offices and the other half in inpatient pediatric settings. Students use this experience to become familiar with the primary care and subspecialty nature of the field and the important role that the pediatrician plays in the physical and emotional development of children of all ages.

During the third year, students participate as members of a health care team in a variety of community outpatient and inpatient settings, allowing them to apply their interviewing and clinical problem-solving skills in the health care of children. In addition, the department provides an opportunity for approximately 30 students to participate in a 12-week combined obstetrics & gynecology and pediatric/maternal-child health elective during which the student is responsible for a woman’s prenatal care, as well as the health supervision of her infant. Students who have a special interest in the welfare of children can also participate in an elective Special Interest Group in Pediatrics, which meets regularly to discuss such topics as the ethical issues of reproductive choice and severe prematurity, human sexuality, teenage pregnancy, sexual abuse, divorce and adoption. These seminars are developed by the students with the help of a faculty advisor.

Fourth-year students can elect to participate in the Senior Scholars Program, designed to provide in-depth clinical and/or research experience in an area of special interest. Electives are also available in pediatric subspecialties, general pediatrics, pediatric emergency service and pediatric or neonatal intensive care.

**Pediatrics Faculty**

**Professor and Chair**

Marianne E. Felice, BA, Carlow, 1966; MD, Hershey, 1972; MS, Johns Hopkins, 1997

**Professor and Dean Emeritus**

James B. Hanshaw, AB, Syracuse, 1950; MD, SUNY Upstate, 1953

**Professors Emeriti**

John A. Duggan, AB, Boston College, 1944; MD, Harvard, 1947

Peter H. Viles, AB, Harvard, 1956; MD, Case Western Reserve, 1960

**Professors**

Ali and John Pierce Chair in Pediatric Hematology/Oncology


Donna M. Ambrosino, BA, Harvard, 1974; MD, Dartmouth, 1977

Francis J. Bednarek, BS, King’s, 1966; MD, Loyola, 1970

*Sarah H. Cheeseman, AB, Mt. Holyoke, 1969; MD, Wisconsin, 1973

William A. Durbin Jr., BA, Dartmouth, 1968; MD, Columbia, 1972

Terence R. Flotte, BS, New Orleans, 1982; MD, Louisiana State, 1988

William T. Garrison, BA, SUNY Plattsburgh, 1972; MA, Cornell, 1977; PhD, 1978


Edward Ginnis, BS, Rensselaer, 1967; PhD, 1971; MD, Johns Hopkins, 1976

George Grady, BS, Kentucky, 1955; MD, Vanderbilt, 1959

*Michael P. Hirsh, BA, Columbia, 1975; MD, Harvard, 1979

Mary M. Lee, AB, Harvard, 1979; MD, SUNY Buffalo, 1983

Thomas McLaughlin, BS, King’s, 1969; MA, SUNY Binghamton, 1973; ScD, Harvard, 1989

Alan D. Michelson, MB, BS, Adelaide, 1973

Marvin Mitchell, BS, Toledo, 1944; MD, Ohio, 1950

Brian P. O’Sullivan, AB, Dartmouth, 1975; MD, 1980

*Arthur M. Pappas, AB, Harvard, 1953; MD, Rochester, 1957

Katherine F. Ruiz de Luzuriaga, SB, MIT, 1978; SM, 1980; MD, Tufts, 1984

* joint appointment
John L. Sullivan, BS, LeMoyne, 1968; MD, SUNY Upstate, 1972
Karen Wiss, BA, Texas, 1980; MD, 1985
Martin H. Young, BS, SUNY Downstate, 1971; MA, Fairleigh Dickenson, 1973; PhD, SUNY Albany, 1977
Robert G. Zwerdling, BA, Michigan, 1963; MD, Wayne State, 1967

Clinical Professors
W. Peter Metz, AB, Harvard, 1972; MD, 1977
Richard A. Moriarty, BA, Colby, 1968; MD, Vermont, 1972
Lynda M. Young, BA, SUNY Buffalo, 1969; MD, 1973

Associate Professors
Linda G. Bandini, BS, UMass Amherst, 1975; MS, MIT, 1976; PhD, 1987
Patricia H. Bazemore, BA, Radcliffe, 1962; MD, Yale, 1966
Diane R. Blake, BA, Smith, 1986; MD, Johns Hopkins, 1990

Anne Marie Comeau, AB, Holy Cross, 1978; PhD, Brandeis, 1985
Roger Eaton, BA, Vermont, 1970; MS, SUNY Buffalo, 1978; PhD, 1981
Dianne S. Ellenbein, BA, Radcliffe, 1966; MD, Johns Hopkins, 1970
Charles D. Hamad, BA, Quinnipiac, 1972; MA, Long Island, 1974; PhD, Kansas, 1977
Paul C. Marshall, BS, Boston College, 1966; MD, Jefferson, 1970
Mai-Lan Rogoff, AB, Barnard, 1967; MD, New York Medical, 1971
Maria V. Tantengco, BS, The Phillipines, 1978; MD, 1982
Thomas Zylkovicz, MS, PhD, Minnesota, 1973

Clinical Associate Professors
Scot Bateman, AB, Dartmouth, 1989; MD, 1994
Kathleen Braden, BA, Columbia, 1971; MD, Albert Einstein, 1978
Geri Fuhrmann, BA, Tufts, 1977; PsyD, Denver, 1984
Mariann M. Manno, BS, Fordham, 1977; MD, NYU, 1981
Phyllis Pollack, BS, Michigan, 1972; MD, Harvard, 1977
Ann L. Sattler, BA, Stanford, 1968; MAT, Harvard, 1970; BS, South Dakota, 1974; MD, Pritzker, 1976
Pauline Sheehan, MD, Chile, 1978
G. Naheed Usmani, MBBS, King Edward, 1980

Linda D. Sagor, MD, MPH
Associate Professor of Pediatrics
Director of the Division of General Pediatrics,
UMass Memorial Medical Center
Recipient of the 2009 Community Clinician of the Year Award,
Worcester District Medical Society

UMass Medical School provides great opportunities to get involved in community service and advocacy, in the local community, at the state level and internationally.

Dr. Sagor is an advocate for children in foster care in Massachusetts. Because of her concern that the health care of these children was fragmented, inconsistent and incomplete, she created and now directs the Foster Children Evaluation Services (FaCES) program, which provides health screenings, comprehensive evaluations, and a unique medical information system containing all health data for these children. More than 80 percent of children in foster care in Worcester and surrounding areas are seen in FaCES and then referred to a primary care provider (along with their complete records) for ongoing care.
(Pediatrics Faculty continued)

Research Associate Professors

A. Lawrence Frelinger III, BS, San Diego State, 1975; PhD, Case Western Reserve, 1984

Mohan Somasundaran, BS, Kerala, 1976; MS, Calcutta, 1978; PhD, 1983

Assistant Professors

Robin Adair, BA, Vermont, 1975; MD, SUNY Buffalo, 1979; MS, Brandeis, 1995

Carrie Armsby, BA, Barnard, 1993; MD, Pennsylvania, 1999

Seema Adhami, MBBS, J.N. Medical College, India, 1983; MD, 1988

Amanda Angelescu, MD, East Ramon Magasaipay, 1987


Stephen A. Bean, BA, Hamilton, 1984; MS, Georgetown, 1988; MD, 1990

Angela Beeler, BS, MIT, 1992; MD, Utah, 1997

Richard A. Bream, BA, Minnesota, 1971; MD, 1976

Leo Buchanan, BA, Howard, 1964; MS, Wisconsin, 1971; PhD, 1977


Scott Cochrane, BS, California, 1974; MA, Stanford, 1976; MD, North Carolina, 1990

Nicolina Cordero-Davis, BA, Colgate, 1987; MD, Albany, 1991

Ingrid Cruse, MD, SUNY Buffalo, 1991

Michael J. Daley, BA, Holy Cross, 1975; MD, Georgetown, 1979

John Diggins, BS, Providence, 1988; MD, Cincinnati, 2003


Michael Fahey, BA, Dartmouth, 1997; MD, Columbia, 2002

Jay Fong, BSc, Fairfield, 1994; MD, Ross, 1999

Heather Forkey, BS, Cornell, 1989; MD, SUNY Buffalo, 1993

Glenn Furuta, BA, Texas, 1982, MD, Baylor, 1986


Laura L. Gibson, BA, Yale, 1987; MD, UMass Worcester, 1994

* joint appointment

Timothy E. Gibson, BA, Tufts, 1994; MD, UMass Worcester, 1999


Arthur Giuliano, MD, New York, 1973

Thomas C. Greenough, BA, UMass Amherst, 1981; MD, Rochester, 1987


Thomas Guggina, BA, Boston, 1994; MD, UMass Worcester, 1999

Arnold Gurwitz, BS, UMass, 1953; MS, 1955; MD, Tufts, 1962

Olga Hardy, BSE, Duke, 1996; MD, California, 2000


Beverly N. Hay, BA, California, 1986; MD, Jefferson Medical, 1996

Ho-Wen Hsu, AB, Princeton, 1979; MSc, Harvard, 1990; MD, Columbia, 1984

Margaret S. Hunt, BA, Brown, 1980; MD, Iowa, 1987

Catherine James, BA, Cornell, 1991; MD, Pennsylvania State, 1997


Eugene Jura, MD, Heidelberg, 1982

Christopher P. Keuker, BS, Rochester, 1987; MD, SUNY Upstate, 1991

Doris M. Kim, AB, Brown, 1989; MD, Vermont, 1993

Ted M. Kremer, BS, Iowa, 1990; MD, 1998

Robert Kossack, MD, Virginia, 1980

Jeffrey C. Lukas, SB, MIT, 1982; MD, Connecticut, 1986

Martin Luloff, MD, Catholique de Louvain, 1976


Madeleine Martin, BA, California, 1995; MD, North Carolina, 2000

Bonnie Mathews, BS, Birmingham, 1996; MD, Alabama, 2001


Slobhan McNally, BS, Yale, 1979; MD, UMass Worcester, 1984

Patricia A. McQuilkin, BSc, UMass Amherst, 1985; MD, UMass Worcester, 1992

Julie E. Meyers, BS, Tufts, 1978; MD, 1983

Munir Mobassaleh, BSc, Beirut, 1976; MD, 1981

Rebecca Moles, BA, Rochester, 1996; MD, 2000

Peter J. Murphy, BS, Stonehill, 1976; MS, Louisville, 1979; MD, 1982

Sheyda Namazie-Kummer, BA, Williams, 1997; MD, Washington, 2003

Beverly Nazarian, BA, Carleton, 1989; MD, Minnesota, 1994

Catherine B. Nowak, BA, Dartmouth, 1985; MD, McGill, 1989


Benjamin U. Nwosu, MD, Nigeria, 1995


Gregory Owens, BA, Delaware, 2001; MD, David Geffen, 2005

James W. Pellegrini, BS, UMass Boston, 1982; MD, UMass Worcester, 1986


Anne Powell, BA, Bowdoin, 2001; MD, UMass Worcester, 2005

Jopty P. Ramakrishna, MBBS, Lady Hardinge Medical, 1983; MD, 1988

John A. Riordan, BS, Holy Cross, 1949; MD, Georgetown, 1953

Karen F. Rothman, BA, MD, Boston, 1981


Martha Sacoto, BS, Sophie Davis, 1986; MD, NY, 1989

Inderneel Sahai, MD, Pune, 1990


Swati Sane, MB, BS, Grant India, 1997, MPH, Harvard 1999

Darshak Sangavi, BA, Harvard, 1992; MD, Johns Hopkins, 1997

*Judith A. Savageau, BS, Northeastern, 1977; MPH, Yale, 1980


Peter Sell, BA, Holy Cross, 1995; DO, NE College of Osteopathic, 2002

Ruth B. Smith, BA, Boston, 1961; MSW, Adelphi, 1970; PhD, Boston College, 1990

Merav Socolovsky, BA, Cambridge, 1983; MB/BS, University College (London), 1986; PhD, 1993


Leslie A. Soyka, BA, California, 1987; MD, Connecticut, 1992

Michael Staley, MD, Florida, 1999

Susan Starr, BA, Clark, 1969; MEd, Worcester State, 1971

Christy Stine, BA, California, 1989; PhD, FUHS/Chicago, 1998; MD, 2000
Susan Sullivan-Bolyai, BSN, Metropolitan State College, 1976; MN, Emory, 1978; DNSc, Yale, 1999
Jennifer Thompson, BA, Saint Anselm, 1992; MD, Tufts, 1996
Yuka-Marie Vinagre, BS, Duke, 1987; MD/PhD, Boston, 1997
Mark A. Vining, BS, Vermont, 1991; MD, 1997
Kathleen Walsh, BA, Cornell, 1992; MD, Georgetown, 1998
Joel H. Weiner, BA, Northern Illinois, 1975; BS, 1976; MD, Chicago Medical, 1980
Stuart A. Weisberger, BS, Michigan, 1970; MS, 1972; MD, Cincinnati, 1980
Scott D. Wellman, BS, SUNY Binghamton, 1975; MD, Rochester, 1979

Clinical Assistant Professors
Theresa Callahan, BS, Mount Holyoke, 1987; MD, UMass Worcester, 1991
Fernando Catafina, BA, Saint Anselm, 1989; MD/PhD, Texas Western Medical, 1997
Christopher P. Giuliano, BA, Vassar, 1996; MD, UMass Worcester, 2000
Maureen Kruska, BA, Yale, 1980; MD, NYU, 1985
William D. Selin, BS, Muhlenberg, 1971; MD, Case Western Reserve, 1975
William W. Woodruff, BA, Brown, 1984; MD, Cincinnati, 1988

Research Assistant Professors
Christian Mueller, BS, Florida IT, 2000; PhD, 2006; MD, 2007, Florida
Quichang Shen, BA, Fudan, China, 1967; MS, Shanghai, China, 1981; PhD, Carnegie-Mellon, 1988

Adjunct Assistant Professor
Tamara Vesel, MD, Safarik Medical, 1988

Affiliates
Robert M. Beckmann, BS, SUNY Albany, 1987; MD, 1992
Kimberly D. Boulland, BS, Western Michigan, 1979; MS, Boston, 1984
Sharon M. Campion, BA, Wellesley, 1982; MD, Vermont, 1988
Lisa E. Carson, BSN, Fairfield, 1987; MSN, Northeastern, 1990
Kathy L. Chrismer, BA, Smith, 1978; MD, Rochester, 1982
Ruth Y. Chu, BS, Indiana, 1982; MA, 1984; MD, 1987
Robert A. Cottone, BA, Seton Hall, 1963; MA, Catholic, 1965; PhD, 1967
Kathleen M. Cleary, BA, St. Mary’s, 1980; MD, UMass Worcester, 1984
Idris Dahodwala, MBBS, Jawaharlal Nehru, 1966
Nancy W. DeTora, BS, Michigan State, 1974; MD, 1977
Brooke Di Ann, BS, Florida, 1997; DO, Nova, 2002
Patricia A. Dykstra, AB, Smith, 1979; MD, Emory, 1983
Leigh A. Emery, BSN, Boston College, 1977; MSN, 1979
Judith B. Evans, BS, St. Bonaventure, 1977; MD, New York Medical, 1982
Amy B. Gonroff, MA, Dartmouth, 1982; MS, Georgetown, 1983; MD, 1987
Deborah Gurski, BS, UMass Amherst, 1988; MD, UMass Worcester, 1992
Patricia M. Hackett, BA, Catholic, 1968; MSW, Boston College, 1987
Muddana Haribabu, MBBS, Rangaraya, 1971
Philip M. Hommes, BS, Michigan, 1968; DO, Chicago College of Osteopathic Medicine, 1972
William F. Horgan, AB, Holy Cross, 1978; DO, New England College of Osteopathic Medicine, 1983
Michael E. Huppert, BA, St. John’s, 1969; MPH, Michigan, 1971
Amrullah Khelghati, BA, Tehran, 1965; MPH, California, 1978
Brenda McHugh, BS, UMass Amherst, 1980; MD, UMass Worcester, 1985
Madeline B. Morris, BA, Boston, 1972; MD, 1973
Ramesh R. Mundra, MBBS, BJ Medical, 1966
Joyee Nobis, MBBS, Assam, 1966
Dorothy Page, BSN, Fitchburg State, 1970; MSN, Lowell, 1984
Sahdev R. Passey, MBBS, Gandhi, 1972
Jimmliee B. Prouty, AB, Drury, 1965
* joint appointment

Catherine A. Riordan, BS, Boston, 1981; MD, 1992
Susan Robinson, BA, Dartmouth, 1995; MD, Georgetown, 1999
Mark E. Ryan, BS, UMass Amherst, 1979; MD, Vermont, 1986
Stanley S. Sack, BA, Dartmouth, 1979; MD, Hahnemann, 1985
Amy C. Sharples, BS, Connecticut, 1967; MS, Boston, 1976
Susan Shawver-Matthews, BS, Maryland, 1972; MD, 1978
John B. Sheehan, AB, Holy Cross, 1974; MD, Mount Sinai, 1978
Dale G. St. Lawrence, AB, Brown, 1983; MD, UMass Worcester, 1988
Donna M. Staton, BA, Williams, 1979; MD, UMass Worcester, 1986
Kathleen Van Schoick, BA, St. Joseph, 1974; MS, Wheelock, 1980
Martha B. Waite, BA, Drew, 1984; MD, Medicine & Dentistry, 1988
Sarah Wegiel, BA, Tufts, 1997; MD, UMass Worcester, 2004
Suzanne M. Weiss, BA, Mt. Holyoke, 1969; MD, Cincinnati, 1973

Instructors
Karen Back, BS, William and Mary, 1964; MD, Emory, 1969
Robert Baswow, MD, Baylor, 1989
Andrew Baumel, BS, Yale, 1988; MD, Pennsylvania, 1992
Paula A. Beaver, BS, Assumption, 1990; MS, Northeastern, 1995
Sandra L. Bellini, BS, Worcester State, 1994; MS, Northeastern, 1996
Matthew Benz, BA, Middlebury, 1986; SM, MIT, 1993; MD, Tufts, 1999
Lisa M. Blazejewski, BA, Delaware, 1995; MS, Minnesota, 1999
Sharon Burdulis, MD, UMass Worcester, 1995
Patricia Carlino, MD, California, 1989
Marc Cerrone, MD, SUNY Brooklyn, 1996
Debra Chaison, BA, California, 1993; MSW, Boston, 1997
Easter Chu, BA, Yale, 1987; MD, NYU, 1994
Linda Ciu, MD, Tirana (Albania), 1986
Maureen Cochran, AAS, Bronx; BS, Columbia; MS, Boston; PhD, Northeastern
Rachel Coleman, BS, Milligan, 1996; MD, Florida, 2004

(continued)
(Pediatrics Faculty continued)

José Correa, MD, Universidad Nacional Mayor de San Marcos, 1977

Garfield Danenhower, MD, South Carolina, 1968

Carrie D’Angelo, BA, Holy Cross, 1990; MD, Tufts, 1995

Michelle Dalai, BS, Cornell, 1996; MD, SUNY Stony Brook, 2000

Ghaleb Daouk, BS, Syracuse, 1979; MD, Beirut, 1984; SM, MIT, 1991

Nicolina C. Davis, BS, Colgate, 1987; MD, Albany, 1991

Sherrill Davis, MD, Kansas, 1984

Brian Dempsey, MD, UMass Worcester, 1982

Carlos Duran, BA, MIT, 1994; MD, SUNY Stony Brook, 1999

Bradlee Drabant, BS, Boston, 1996; MD, UMass Worcester, 2002

Michael Fabrizio, MD, Royal, Ireland, 1974

Bruce S. Fieldman, BA, Boston, 1970; MD, Tufts, 1974

Evan Finkenstein, MS, Finch, 1994; MD, 1998


Christine Freemer, BA, Holy Cross, 1989; MD, Johns Hopkins, 1993

Marzena Galdzicka, BS, Institute of Chemistry and Food, 1979; MS, George Mason, 1998; PhD, 2002

John Gallagher, BS, St. Johns, 1989; MD, Albert Einstein, 1997

Katherine Garnett, BS, Bates, 1997; MD, Vermont, 2002

James M. Gleason, BS, Boston, 1976; MS, 1982

Amy Goldberg, BA, Vermont, 1990; MD, Boston, 1997

Dawn M. Gomez, BS, Wheelock, 2000

N. Alan Harris, AB, Stanford, 1972; MD, Mount Sinai, 1976; MPH, California/Los Angeles, 1980

Lisa M. Hassler, BS, Northeastern, 1986; MD, Pennsylvania State, 1997

Martha Henry, BA, Saint Anselm, 1996; MA, Clark, 2000; PhD, 2005

Ines M. Hertz, BS, St. Mary’s College, 1971; MD, Tulane, 1975


Sara Jacobson, BS, Emory, 1996; MD, Boston, 2000


Lucille E. Kanjer-Larson, BA, San Diego, 1989; MD, Creighton, 1993


Helena H. Kellibor, BS, Jackson, 1975; MD, UMass Worcester, 1980

Mariam Lari, BS, Le Moyne, 1996; MD, SUNY Upstate, 2000


You Fu Li, BA, Zunyi, China, 1982; MD, Hunan, China, 1988; MPH, UMass Amherst, 2004

Matthew Linden, BS, Australia, 2000; PhD, 2003


Thomas Lacava, BS, New Hampshire, 1966; MD, St. Louis, 1972

Maura Lucas, BA, Colby, 1996; MD, Tufts, 2002

Indranil Malkani, MBBS, India Institute of Medical Sciences, 1987; MD, India, 1990


Krista Matsen, MD, Connecticut, 1999


Caroline McDonald, MS, BSN, Northeastern, 2000

Diana McManus, BS, Tufts, 1998; MD, UMass Worcester, 2002

Kara Murphy, BA, Yale, 1999; MD, Columbia, 2004

Mary Naples, RN, BSN, St. Joseph’s, 2001

Lawrence G. Pincus, BA, Johns Hopkins, 1971; MD, New York Medical, 1976


Eileen Ricci, BS, Springfield, 1975; MS, Boston, 1977

Kellie A. Rice, BS, Seton Hall, 1991; MD, New York Medical, 1995

Nicole Rivers, BS, Bridgewater State, 1995; MPA, Suffolk, 1998

Dennis J. Rosen, BS, Rhode Island, 1967; MD, SUNY Buffalo, 1971

Jessica Rae Rubinstein, MD, UMass Worcester, 1986

Gail Ryan, BS, Rutgers, 1981; MD, Robert Wood Johnson, 1990

Victor Sanchez-Merino, BA, Complutense de Madrid, Spain, 1994; PhD, 2001

Maria Schoen, MD, Vermont, 1990


Lorraine Schratz, BS, Union, 1986; MD, Albany, 1989

Patricia Segerson, BA, Manhattanville, 1974; MBA, Boston, 1984

Kerinna Silvestri, BS, Boston, 1999; MS, Northeastern, 2004

Janet A. Siota, BA, Smith, 1987; MD, Medical College of Pennsylvania, 1996

Audrey Smolkin, BA, Pennsylvania, 1993; MPP, Chicago, 1997

Shahrzad Sorourbakhsh, BA, California/San Diego, 1991; MD, St. Louis, 1998

Stacy Stimets, BS, Nichols, 1985; MS, Boston, 1998

Michelle Stumm, BS, Dartmouth, 1997; MS, Northeastern, 2002

John S. Sullivan, BS, Harvard, 1974; MD, Boston, 1978

Ronald Tadiri, MD, Ohio, 1986


Mary Whalen, RN, Hahneman (Worcester), 1978; BSN, Worcester State, 1988; NNP, Northeastern, 1995

Robert J. Wing, BFA, Lesley, 1995; MA, Hofstra, 1997

Research Instructor

XiuFeng Wu, MD, Changzh, China, 1986; MS, Shanxi, China, 1997; PhD, Beijing, China, 2001

Adjunct Instructors

Elahna Paul, BA, Yale, 1985; MS, Albert Einstein, 1989; MD, 1994


* joint appointment
The Department of Physiology offers:
• a multifaceted research approach designed to understand normal and dysfunctional molecular and cellular mechanisms in human physiology and disease in all organs of the body;
• faculty members internationally known for their expertise in neural science, reproduction, aging, cell growth and cancer, stem cell research, cardiovascular physiology, endocrinology, smooth muscle biology and contractile proteins;
• researchers who are pioneers in techniques involving high temporal resolution fluorescence imaging of cells and tissues, genomic and proteomic microarray analysis, laser capture microdissection, molecular biology and electrophysiology to elucidate the biological basis of human disease; and
• excellence in integrative physiological education of medical and graduate students that is essential to foster translational research involving physicians and researchers and has been consistently recognized by numerous teaching awards.

Physiology Faculty

Professor and Chair Ad Interim
James G. Dobson Jr., BS, Central Connecticut State, 1965; MA, Wesleyan, 1967; PhD, Virginia, 1971

Professor and Vice Chair Ad Interim
Mitsuo Ikebe, BS, Tokyo Institute of Technology, 1975; MS, 1977; PhD, Osaka, 1982

Professors Emeriti
H. Maurice Goodman, AB, Brandeis, 1956; AM, Harvard, 1957; PhD, 1960
Peter Grigg, BS, Rensselaer, 1961; MS, Syracuse, 1965; PhD, SUNY Upstate, 1969

* joint appointment

Professors
Robert E. Carraway, BS, SUNY Stony Brook, 1967; PhD, Brandeis, 1972
*Anthony Carruthers, BS, Manchester, 1977; PhD, London King’s, 1980
*David Drachman, MD, New York Medical College, 1956
*Harvey M. Fiorina, BA, Rutgers, 1972; PhD, Pennsylvania, 1982
José R. Lémos, BA, Occidental, 1970; PhD, Wesleyan, 1979
Jack L. Leonard, BA, California State, 1971; PhD, California/Berkeley, 1976
*J. Mark Madison, BA, Carleton, 1975; MD, Harvard, 1979
Robert J. O’Connell, PhD, SUNY Upstate, 1968
*Daniel A. Pollen, AB, Harvard, 1956; MD, 1960
Michael J. Sanderson, BS, Southampton, 1976; PhD, 1981
Joshua J. Singer, SB, SM, EE, MIT, 1966; PhD, Harvard, 1970
*Jeffrey S. Stoff, BS, HOBart, 1964; MD, SUNY Buffalo, 1968
John V. Walsh, AB, Boston College, 1964; MD, Harvard, 1970

Associate Professors
*James E. Crandall, BS, Illinois, 1975; PhD, Florida, 1980
Richard A. Fenton, BS, Wyoming, 1967; MS, Indiana, 1970; PhD, Kansas, 1977
*Lawrence J. Hayward, BS, Washington, 1982; PhD, Baylor, 1987; MD, 1989
Julie A. Jonassen, BS, Michigan, 1974; PhD, 1980
Daniel L. Kilpatrick, BA, California/San Diego, 1974; PhD, Duke, 1980
*Lawrence M. Lifshitz, BA, Harvard, 1980; MS, North Carolina, 1983; PhD, 1986
*David Paydarfar, BS, Duke, 1980; MD, North Carolina, 1985
*Gregory Pazour, BS, South Dakota State, 1986; PhD, Minnesota, 1991
Ann R. Rittenhouse, AB, Mt. Holyoke, 1976; PhD, Boston, 1984
*Clive Standley, BS, London, 1983; PhD, 1986
Ronghua Zhuge, BS, Zhejiang, 1983; MS, Nanjing Agricultural, 1986; PhD, Iowa State, 1995

The first-year course begins with a consideration of the basic aspects of cellular physiology and evolves into an examination of the major physiological systems—cardiovascular, respiratory, renal, gastrointestinal, endocrine, neural and reproductive. Because function and structure are closely interrelated, every effort is made to integrate the presentation of the functional basis of human health and disease in all organs of the body; and the functional basis of human health and disease—·a foundation that students need as they prepare to become physicians and lifelong learners.

Coursework emphasizes the physical and biochemical principles that govern the function of various cell types and organ systems—understanding these principles is far more important for understanding physiological and pathophysiological processes than rote memorization of facts. The first-year Human Physiology course strikes a balance between broad coverage and in-depth analysis of certain topics that are particularly illustrative of basic principles or methods. The goal is to discuss each topic sufficiently to prepare students to read the more advanced texts and current literature in whichever areas they might choose to pursue in greater depth.

The Department of Physiology offers instruction that provides medical students with a working knowledge of the fundamental aspects of physiology. This knowledge serves as the foundation for understanding the functional basis of human health and disease—a foundation that students need as they prepare to become physicians and lifelong learners.

(continued)
Psychiatry

The Department of Psychiatry provides educational programs throughout all four years of the Medical School curriculum. Courses during the first three years encompass interviewing, diagnostic and etiologic issues, as well as treatment and management modalities. Normal and abnormal development and psychological functioning are considered, and social, behavioral, biological and psychodynamic models are integrated throughout the curriculum.

During the first year, the department participates in the interdisciplinary Physician, Patient and Society course, and the Mind, Brain and Behavior I course. The second-year Psychiatry course, part of Mind, Brain and Behavior II, surveys the major psychopathological syndromes and normal/abnormal aspects of development from birth through old age. Psychological problems that frequently arise in primary care medicine—grief, anxiety and reaction to illness—are also considered in detail. Small group learning is utilized extensively to reinforce the didactic material.

During the third year, a six-week required clerkship gives students an opportunity to further develop the interviewing, reasoning and communication skills that are fundamental to psychiatric diagnosis and intervention. An integrative model is stressed, emphasizing the biologic, psychodynamic, social and behavioral aspects of treatment in both inpatient and outpatient settings.

The department offers a Senior Scholars Program and a number of fourth-year electives, including advanced clinical rotations on inpatient or consultation units as well as experience in specialized areas such as law and psychiatry, child and adolescent psychiatry, child maltreatment, community psychiatry, psychiatry for the homeless, and neuropsychiatry.

Psychiatry Faculty

Professor and Chair

Professors Emeriti
Edward Mason, AB, Clark, 1948; MD, Tufts, 1952
David J. Myerson, BA, Harvard, 1940; MD, Tufts, 1943

Professors
Celia and Isaac Haidak Professor of Medical Education
Aaron Lazare, AB, Oberlin, 1957; MD, Case Western Reserve, 1961
Irving S. and Betty Brudnick Chair in Psychiatry
Sheldon Benjamin, BS, Cincinnati, 1976; MD, 1980
Marjorie Clay, BA, Oklahoma, 1969; MA, Northwestern, 1971; PhD, SUNY, 1981
Edward I. Gins, BS, Rensselaer, 1967; PhD, 1971; MD, Johns Hopkins, 1976
Thomas Grisso, BA, Ashland, 1964; MA, Arizona, 1966; PhD, 1969
Jean A. King, BS, St. Francis, 1979; MS, CUNY, 1982; PhD, NYU, 1988
William J. Mcllvane, BA, NYU, 1974; MA, Northeastern, 1978; PhD, 1986
Thomas McLaughlin, BS, King’s, 1969; MA, SUNY Binghamton, 1973; ScD, Harvard, 1989
Majaz Moonis, MBBS, University College, 1981; MD, Maulana Azad, 1986
Ellen S. More, BA, SUNY, 1968; MA, Rochester, 1970; PhD, 1980

* joint appointment
Evgeny I. Rogaev, PhD, Academy of Medical Sciences, 1988; DMSc, 1998
Usha Sambamothri, BA, University of Madras, India, 1974; MA, 1976; PhD, 1981
David Smelson, BPS, College for Human Services, 1988; MS, Upsala College, 1989; PsyD, Illinois School of Professional Psychology, 1995

Visiting Professor
Ae-Ja Jung, BA, Korea University, Seoul, 1976; MA, 1978; PhD, 1982

Clinical Professors
Alan P. Brown, AB, Harvard, 1978; MD, Yale, 1982
W. Peter Metz, AB, Harvard, 1972; MD, 1977
Joanne Nicholson, AB, Syracuse, 1973; MS, Pennsylvania State, 1976; PhD, 1979
Ira K. Packer, BA, Columbia, 1974; MA, Pennsylvania, 1976; PhD, 1979
Joseph M. Tonkonogy, MD, Kirov Military Medical Academy, 1947; Dsc, Bekhterev Psychoneurological Research Institute, 1966

Research Professor
Charles W. Lidz, BA, Yale, 1967; PhD, Harvard, 1974

Adjunct Professor
Steven N. Treistman, BA, SUNY Binghamton, 1967; PhD, North Carolina, 1972

Associate Professors
Schahram Akbarian, MD, Freie Universitaet Berlin, 1989; PhD, 1991
*Patricia H. Bazemore, BA, Radcliffe, 1962; MD, Yale, 1966
Philip J. Candillis, BS, George Washington, 1988; MD, Eastern Virginia, 1992
William V. Dube, BM, New England Conservatory of Music, 1972; MA, Northeastern, 1985; PhD, 1987
Kenneth E. Fletcher, BA, DePauw, 1968; MS, PhD, UMass Amherst, 1988
Paul D. Gardner, BS, California, 1979; PhD, Pittsburgh, 1984
Paul Marshall, BS, Boston College, 1966; MD, Jeffersonerson, 1970
Haley E. Mellowian, BS, UMass Amherst, 1984; PhD, Emory, 1995
Kevin R. Murphy, BA, Boston College, 1979; MS, Florida State, 1981; PhD, Connecticut, 1990
Jayendra K. Patel, MBBS, Maharara Sayajirao, 1983; MD, 1986
Debra A. Pinals, BA, Toleda, 1985; MD, Ohio, 1989
Mal-Lan Rogoff, AB, Barnard, 1967; MD, New York Medical, 1971
Richard W. Sema, BA, New Mexico, 1980; PhD, Utah State, 1987
*Joan M. Swearer, BA, Macalester, 1979; MA, New School for Social Research, 1985; PhD, 1991
William Vogel, BA, Wesleyan, 1955; MA, Clark, 1957; PhD, 1959

Clinical Associate Professors
Linda M. Cavallero, BA, Hunter, 1969; MA, Columbia, 1970; PhD, Wisconsin, 1979
Gerl Fuhrmann, BA, Tufts, 1977; PsyD, Denver, 1984
Albert J. Grudzinski Jr., BS, Northeastern, 1974; JD, Syracuse, 1977
Thomas L. Hom, BA, Cornell, 1968; MD, Yale, 1972
Sharyn Lenhart, BS, Allegheny, 1970; MD, Pittsburgh, 1974
Julia Anne Matthews-Bellinger, BA, Cornell, 1970; PhD, 1980; MD, UMass Worcester, 1986
Charles R. Swenson, BA, Harvard, 1972; MD, Yale, 1976

Research Associate Professor
Maryann Davis, BS, UMass Amherst, 1981; MA, Emory, 1985; PhD, 1990

Adjunct Associate Professor
Leonard A. Doerfler, BS, Pittsburgh, 1976; MA, Missouri-Columbia, 1979; PhD, 1982

Assistant Professors
Mary Ahn, BA, Johns Hopkins, 1994; MD, Illinois/Chicago, 1998
John F. Aney, BA, Dartmouth, 1983; MD, UMass Worcester, 1988
Rasim Arikan, MD, Hacettepe, 1986; PhD, Ege, 1997
Elizabeth Austin, BA, Mount Holyoke, 1985; MA, Concordia, 1992; PsyD, Denver, 1999
Stuart H. Bartle, AB, Harvard, 1950; MD, NYU, 1954
Anne L. Bateman, MSN, UMass Amherst, 1988; EdD, 1993
Negar Beheshti, BA, Minnesota, 1994; MD, 2001
Philip Burke, BS, Tufts, 1993; MD, UMass Worcester, 2001
Nancy Byatt, DO, New York College of Osteopathic Medicine, 2003
Robert J. Carey Jr., BA, Harvard, 1977; MS, Ohio, 1982; PhD, 1985
Jerry L. Carter, BS, Southwest Missouri State, 1978; MD, Missouri, 1982
Lauren R. Charlot, BS, Suffolk, 1980; MSW, Simmons, 1982; PhD, Boston College, 1994
Cezar I. Cimpanenu, MD, Romania Institute of Medicine and Pharmacy, 1986
John Diggins, BS, Providence College, 1988; MDiv, Dominican House of Studies, 1995; MD, Cincinnati, 2003
Elizabeth W. Donlon, BA, Georgia, 1985; MD, 1994
Jessica Edwards-George, BA, Binghamton, 1999; MS, Northeastern, 2002; CAGS, 2003; PhD, 2007
Sandra Ehlinger, BA, Antioch, 1969; PhD, Rochester, 1975
Sandra Felder, BS, Fairleigh Dickinson, 1980; MD, University of Medicine and Dentistry of New Jersey, 1984
Deborah C. Field, BS, UMass Amherst, 1987; MD, UMass Worcester, 1993
Caroline E. Fisher, BA, 1988, Dartmouth; MD, PhD, Boston, 2003
Leslie Fishbein, BA, Pennsylvania, 1983; MD, 1988
Richard K. Fleming, BS, New Hampshire, 1975; MED, UMass Amherst, 1983; MS, 1987; PhD, 1990
*Katherine K. Fong, BA, Rochester, 1975; MD, SUNY Buffalo, 1979

* joint appointment

(continued)
(Psychiatry Faculty continued)

Marie A. Fusaro-Davis, BA, Clark, 1978; PhD, 1991; MA, Assumption, 2000
Marion Gaffney, MA, Juilliard School of Music, 1979; MD, UMMS, 1987
Frank Gatti, MD, Northwestern, 1963; MA, Harvard; 1980
Ronald T. Greene Jr., BS, Maryland, 1979; DO, West Virginia, 1986
Jessica L. Griffin, BA, Wooster, 1999; PhD, Virginia Consortium Program, 2003
Sarah Guzofski, BS, Bates College, 1997; MD, UMass Worcester, 2004
*Charles Hamad, PhD, Kansas, 1977
Kamlyn Haynes, BA, Boston, 1989; MD, 1997
Stacy Herbst, BA, Augustana College, 1990; BS, South Dakota, 1992; MD, 1994
Betsy Hinden, BA, Brown, 1984; PhD, Vermont, 1998
Marie Hobart, BA, Albion, 1979; MD, Yale, 1985
David L. Hoffman, BA, Amherst, 1977; MFA, Brandeis, 1979; MD, Boston, 1984
Kenneth J. Holbert, BA, Boston, 1973; MA, California, 1979; PhD, 1983
Jacob C. Holzer, BA, Boston, 1981; MD, Tufts, 1986
J. Anthony Irsfeld, BA, Santa Clara, 1985; PhD, St. John’s, 1994
Cuneyt Iscan, BA, Gazi, 1996; MD, Ankara, 1990
Z. Emel Kayatekin, MD, Hacettepe, 1978
Sun Kim, BSN, Seoul National, 1984; MS, Rutgers, 1995; PhD, 2002
Daniel J. Kirsch, AB, Boston, 1975; MD, 1979
Rebecca S. Knapp, BA, Brown, 1982; MD, 1989
Monica Kolodziej, BS, Concordia, 1990; MS, Syracuse, 1993; PhD, 1999
Grace Kooper, AB, Brown, 1982; MS, 1989; MD, 1991

Kimberlee A. Kusiak, BA, Amherst, 1982; MD, UMass Worcester, 1988
Kimberly Larson, BA, Johns Hopkins, 1999; JD, Villanova, 2006; PhD, Drexel, 2007
Jennifer Lauretti, BS, Central Connecticut State, 1992; MA, Seton Hall, 1977; PhD, 2002
Karen N. Lionello-Denoff, BA, Illinois State, 1995; MS, Purdue, 1997; PhD, 2001
Rebecca S. Lundquist, BA, Miami (Ohio), 1989; MD, Wright State, 1994
Anne Lutz, BSN, Northwestern, 1987; MD, Illinois/Chicago, 1994
Wendy Marsh, BA, Pomona College, 1995; MD, Wayne State, 2000
Bruce Meltzer, BA, Antioch, 1979; MD, Tufts, 1987
Jennifer Michaels, BA, Delaware, 1983; MS, NYU, 1987
Lisa Mistler, BS, MIT, 1982; MS, 1989; MD, Vermont, 1996
Ruben Miozso, MD, Buenos Aires, 1989
Teresa Mitchell, BA, North Carolina, 1987; MA, NYU, 1991; PhD, Indiana, 1996
Peter W. Moran, BA, Assumption, 1974; MA, SUNY Plattsburg, 1978; PhD, Brigham Young, 1982
Denise L. Mumley, BA, James Madison, 1985; MA, Emory, 1995; PhD, 1996
Nelly Nabokin, MD, Kishinev Medical, 1974
David P. Olson, BS, Connecticut, 1979; MS, 1980; MD, 1995; PhD, Illinois, 1988
R. Kaan Ozbayrak, MD, Ege University School of Medicine, 1987
Jyotikaben N. Patel, MS, Maharaja Sayajirao, 1974; MBBS, 1978
Anthony Pellegrino, BS, MIT, 1974; MS, 1974; EE, 1975; MD, UMass Worcester, 1981
Paul Plasky, BA, Clark, 1974; PhD, Temple, 1980; MD, Pennsylvania, 1985
Dorota Poluha, MD, Medical Academy (Poland), 1988
Nancy E. Pratt, BS, Jackson, 1975; MD, Tufts, 1980
Amy Prince, BS, UMass Amherst, 1987; MD, SUNY Brooklyn, 1992
R. Jo Renn, MD, PhD, Dartmouth, 2002
Maurice H. Richardson, AB, Harvard, 1951; JD, Virginia, 1956
Anastasia S. Rizos, BA, Saint Anselm, 1984; MS, Rivier, 1986; DO, New England College of Osteopathic Medicine, 1992
Ruthann Rizzi, BS, St. Joseph’s, 1985; MD, New York, 1990
Andrea J. Rosenthal, BS, MIT, 1983; MD, Bowman Gray, 1990
Stacy Seifer, BS, Wisconsin/Madison, 1996; PsyD, Yeshiva, 2002
Ellen Sharenow, BA, Florida, 1979; MA, 1985; PhD, Western Michigan, 1993
Victoria Shea, BS, Boston College, 1975; MD, Harvard, 1982
Tatiana P. Shteinlukht, MD, Pediatric Medical School, 1985; PhD, Academy of Post Graduate Training, 1990

* joint appointment
Van R. Silka, BA, Miami, 1977; MD, Medical College of Ohio, 1988
Susan G. Skea, BA, Clark, 1967; MSW, NYU, 1976; MD, Yale, 1983
Patrick Smallwood, BA, Arkansas, 1986; MD, 1993
Marianne L. Smith, BS, Roanoke, 1983; MD, Medical College of Virginia, 1988
Sarah Spratt, BA, Oberlin, 1993; MD, Duke, 1997
Mitchell P. Stokes, BA, Yale, 1979; PhD, Chicago, 1987; MD, University of Medicine and Dentistry of New Jersey, 1995
Andrea B. Stone, BA, Wesleyan, 1980; MD, Yale, 1986
Brian R. Szetela, BS, Vermont, 1976; MD, 1979
Andrew Tapper, BS, California/Riverside, 1995; MS, 1996; PhD, Vanderbilt, 2001
John P. Terry, BA, Boston College, 1976; MA, Roosevelt, 1978; PhD, Iowa State, 1983
Chad E. Tillbrook, BA, Villanova, 1995; MA, Alabama, 1997; PhD, 2000
Rosalie Torres-Stone, BA, Lehigh, 1993; MA, Connecticut, 1995; PhD, 2000
Peter F. Toscano Jr., BA, Clark, 1972; PhD, SUNY Stony Brook, 1976
Meenakshi Vemuri, MBBS, Guntur Medical, 1985
Gina Vincent, BA, Alaska, 1994; MA, Simon Fraser, 1999; PhD, 2002
Amy Wachholz, BA, DePauw, 1997; MDiv, Boston, 2000; MA, Bowling Green State, 2002; PhD, 2006
William J. Warnken, BA, Eisenhower, 1975; MA, Anna Maria, 1977; DPsy, Antioch, 1979
Melodie Wenz-Gross, BA, Temple, 1979; Med, Boston, 1980; PhD, Boston College, 1990
Ruth Westheimer, BA, Reed, 1962; MA, California/Berkeley, 1965; MD, Rush, 1975
Kathleen P. Whitley, BS, Virginia Commonwealth, 1975; MD, Medical College of Virginia, 1983
Lewis D. Wurgaft, BA, Swarthmore, 1962; PhD, Harvard, 1972
J. Richard Young, AB, North Carolina, 1968; MD, 1972
Nanyin Zhang, PhD, BEng, Zhejiang University, China, 2000; PhD, Minnesota, 2005

Clinical Assistant Professors

Barry Feldman, BA, UMass Amherst, 1974; MSW, Boston College, 1977; PhD, 2001
Sean O’Brien, BS, Union, 1994; MA, Hartford, 2001; PsyD, 2003
Lawrence Peters, BA, Oberlin, 1972; PhD, SUNY, 1980; MD, Rutgers, 1986
Terry Smith, AB, Indiana, 1978; MS, 1982; MD, Quillen College of Medicine, 1997
Stephen Starr, AB, Assumption, 1968; MD, Autonomous University of Guadalajara, Mexico, 1972
Adjunct Clinical Assistant Professor

Leslie Smith, BA, Texas/Arlington, 1975; MD, Texas Medical Branch, 1978

Research Assistant Professors

Kathleen Biebel, BA, 1990, Earlham; MS, Northeastern, 1995; PhD, Brandeis, 2002
Marsha Ellison, BA, CUNY, 1976; MSW, Hunter, 1979; PhD, Boston, 1996
Josie Harder, BSc, Leeds, 1991; PhD, Bradford, 1994
Alexis D. Henry, BS, Tufts, 1980; MS, Boston, 1983; ScD, 1994
Gilles Martin, BA, Paris, 1987; MS, 1988; PhD, 1992
Andrzej Pietrzynkowski, MD, Warsaw Medical School, 1993; PhD, Medical Center of Postgraduate Education, Warsaw, 1997
Adjunct Assistant Professors

Raymond B. Flannery Jr., BA, Holy Cross, 1964; MA, Boston College, 1967; PhD, Windsor, 1970
John R. Pelletier, BA, Fitchburg State, 1968; MA, Assumption, 1974; ScD, Boston, 1982

Senior Affiliates

David M. Bear, BA, Harvard, 1965; MD, 1971
Richard M. Berlin, BA, Northwestern, 1972; MD, 1976
Robert C. Guerette Jr., BA, Saint Anselm, 1970; MD, Boston, 1975
M. Rachid Och, MD, Aleppo, 1980
Richard A. Prager, AB, Columbia, 1963; MS, 1967; PhD, 1970

Affiliates

Prudence Baxter, BA, Harvard, 1975; MD, Case Western Reserve, 1980
Richard C. Bedrosian, BA, Brown, 1971; MA, Assumption, 1973; PhD, Miami, 1977
Alan P. Birnbaum, BA, Queens, 1967; MA, Southern Illinois, 1970; PhD, 1975
Steve Botsaris, BA, Tufts, 1988; MD, 1992
Kevin Bradley, BA, Springfield, 1973; Med, 1976
Harvey M. Budner, BS, Wisconsin, 1954; MD, 1957
*Robert A. Ciottone, BA, Seton Hall, 1963; MA, Catholic, 1965; PhD, 1967
Christy Clark, BA, Tufts, 1991; MA, The Wright Institute, 1996; PhD, 1999

Lori R. Cohen, BA, California State, 1980; MA, California School of Professional Psychology, 1984; PhD, 1987
Daniel W. Comiskey, BA, Williams, 1988; MD, Connecticut, 1996
Stuart A. Copans, BA, Harvard, 1964; MD, Stanford, 1969
Mark W. Cutter, AB, MD, Boston, 1971
Robert B. Diener, BS, Albright, 1985; MD, Tufts, 1989
Robert Dingman, BA, Minnesota State/Moorhead, 1979; MS, San Diego, 1985; EdD, Boston, 1992
Emad Eskander, MBBCh, Alexander University (Egypt), 1984
Alicia Gavalya, BS, 1954; MD, National School of Medicine, 1961
David H. Gill, AB, Harvard, 1969; MD, Case Western Reserve, 1973
Evan P. Graber, BA, SUNY Binghamton, 1977; PhD, SUNY Albany, 1987
David M. Haddad, ME, Fitchburg State, 1978; EdD, UMass Amherst, 1992
Elizabeth W. Henrikson, BA, Barnard, 1974; ME, Teacher’s College, 1976; PhD, UMass Amherst, 1988
Arnold J. Hill, MD, Dalhousie, 1971
David W. Holtzen, BA, Nebraska/Lincoln, 1985; PhD, Boston College, 1993
Rebecca S. Kardon, BS, Anna Maria, 1977; MA, 1979
Jamie G. Krauss, BA, Colorado, 1974; MA, Hartford, 1977; PhD, Boston College, 1986
Janice LeBel, BA, Salem State College, 1983; ME, 1984; CAGS, Northeastern, 1986; PhD/EdD, 1988
Paul R. Lemieux, BA, Ooble, 1958; MT, 1961; ME, Boston, 1971; PhD, 1980
Steven I. Lessin, BS, Pittsburgh, 1973; MS, 1976; PhD, 1980
Leslie E. Malkiewich, BA, Notre Dame, 1974; MA, Nebraska, 1975; PhD, Notre Dame, 1979
Patrice M. Muchowski, BA, Newton, 1973; MS, Boston, 1974; ScD, 1980
Mary Olson, MSW, Smith College, 1984; PhD, UMass Worcester, 1991
Joanna E. Poluha-O’Neil, BA, Smith College, 1984; PhD, 1992

* joint appointment

(continued)
(Psychiatry Faculty continued)

John V. Pruitt III, BA, North Carolina, 1974; MD, 1978

Philip J. Pryjma, BS, Stevens Institute of Technology, 1968; MD, New York Medical, 1972

Tina Render, BS, Simmons, 1983; MD, UMass Worcester, 1987

Paul M. Rosen, BA, UMass Amherst, 1972; MA, Denver; PhD, 1977


Michael Setton, MA, Anna Maria College, 1982; PhD, United States International University, 1986

Shirley S. Siff, BA, Goucher, 1957; MA, Clark, 1970; EdD, UMass, 1983

Madeline L. Spadola, BA, Boston, 1966; MED, Bank St. College of Education, 1976; DPsych, Massachusetts School of Professional Psychology, 1995

Laurie A. Stalker, BA, SUNY Fredonia, 1976; MS, 1983; PhD, Pennsylvania, 1987

E. Theresa Tedesco, BS, Worcester State, 1978; MS, Boston College, 1979; MD, Case Western Reserve, 1994

Ludmilla Tonkonogy, MD, The First Moscow Medical Institute, 1971

Susan Triteil, BA, Sarah Lawrence, 1978; PsyD, Wisconsin School of Professional Psychology, 1988


Karen L. Wentworth, BS, Worcester State, 1989; MA, Anna Maria, 1993; DPsych, Massachusetts School of Professional Psychology, 1998

Instructors

Wei Chen, MD, Tongji Medical, 1990; MoM, 1999; MS, Southeastern, 2002


A. Nichole Fox, BS, Southern Methodist, 1998; PhD, Vanderbilt, 2002

*Marzena Galdzicka, BS, Institute of Chemistry and Food, 1979; MS, George Mason, 1998; PhD, 2002

Mary Innis, BS, Tufts, 1977; MSN, RN, Yale, 1984; CNA, American Nurses Credentialing Center, 1996

Henrietta Kerman, BA, Vassar College, 1984; DO, New England School of Osteopathic Medicine, 2003

Thomas D. Manning, BA, Assumption, 1969; MA, 1971

Colleen E. McKay, BA, Assumption, 1988; MA, 1990

Merleen A. Mills, BA, Mt. Holyoke, 1978; MSW, Boston College, 1989

Karen E. Nordstrom, BA, Simmons, 1970; MS, Boston, 1975

Mustafa Syed, BS, Anwar-UI-Uloom College, 1989; MD, Deccan College of Medical Sciences, 1977

Jennifer Taub, BA, Oberlin, 1991; PhD, Vermont, 2000

Lee E. Vorderer, BA, Wellesley, 1970; MA, Vanderbilt, 1972

Clinical Instructors

David H. Levey, BS, Rensselaer, 1979; MD, Albany Medical, 1983

Caroline McGrath, RN, BSN, Worcester State, 1986

Research Instructor

Valerie F. Williams, BA, Virginia, 1989; MA, Illinois, 1992; MS, 1996

Adjunct Research Instructor

Marcelo Febo, BS, Puerto Rico, 1997; PhD, 2002

Lecturers

Terrie Burda, BA, Syracuse, 1974; PsyD, Massachusetts School of Professional Psychology, 1991

Peter Cohen, AB, Harvard College, 1977; MD, Albany Medical College, 1984

Michael Fleming, BA, Boston, 1966; DEd, 1971

Jeffrey Gaines, PhD, Pennsylvania State, 2001

James H. Gilmour Jr., BA, Harvard, 1955; MD, Boston, 1959

Robert A. Karr, BA, Oberlin, 1984; MD, Temple, 1989

Edward J. Killeen, BS, UMass Amherst, 1978; MD, St. George’s, 1985

Usha Mathur, MBBS, SMS Medical School, 1957; MD, GR Medical School, 1963

Robert J. Mulvey, BS, Tufts, 1962; MD, 1966

Choudhary B. Patel, BS, Sagar, 1956; MD, Jabalpur, 1965

Kiril R. Patel, MD, Government Medical School, India, 1975

A. Nichole Fox, BA, Southern Methodist, 1998; PhD, Vanderbilt, 2002

Mary Innis, BS, Tufts, 1977; MSN, RN, Yale, 1984; CNA, American Nurses Credentialing Center, 1996

Henrietta Kerman, BA, Vassar College, 1984; DO, New England School of Osteopathic Medicine, 2003

Thomas D. Manning, BA, Assumption, 1969; MA, 1971

Colleen E. McKay, BA, Assumption, 1988; MA, 1990

Merleen A. Mills, BA, Mt. Holyoke, 1978; MSW, Boston College, 1989

Karen E. Nordstrom, BA, Simmons, 1970; MS, Boston, 1975

Mustafa Syed, BS, Anwar-UI-Uloom College, 1989; MD, Deccan College of Medical Sciences, 1977

Jennifer Taub, BA, Oberlin, 1991; PhD, Vermont, 2000

Lee E. Vorderer, BA, Wellesley, 1970; MA, Vanderbilt, 1972

Clinical Instructors

David H. Levey, BS, Rensselaer, 1979; MD, Albany Medical, 1983

Caroline McGrath, RN, BSN, Worcester State, 1986

Research Instructor

Valerie F. Williams, BA, Virginia, 1989; MA, Illinois, 1992; MS, 1996

Adjunct Research Instructor

Marcelo Febo, BS, Puerto Rico, 1997; PhD, 2002

Lecturers

Terrie Burda, BA, Syracuse, 1974; PsyD, Massachusetts School of Professional Psychology, 1991

Peter Cohen, AB, Harvard College, 1977; MD, Albany Medical College, 1984

Michael Fleming, BA, Boston, 1966; DEd, 1971

Jeffrey Gaines, PhD, Pennsylvania State, 2001

James H. Gilmour Jr., BA, Harvard, 1955; MD, Boston, 1959

Robert A. Karr, BA, Oberlin, 1984; MD, Temple, 1989

Edward J. Killeen, BS, UMass Amherst, 1978; MD, St. George’s, 1985

Usha Mathur, MBBS, SMS Medical School, 1957; MD, GR Medical School, 1963

Robert J. Mulvey, BS, Tufts, 1962; MD, 1966

Choudhary B. Patel, BS, Sagar, 1956; MD, Jabalpur, 1965

Kiril R. Patel, MD, Government Medical School, India, 1975

Alexandra Pinkerson, BA, Lyndon State, 1991; MD, Boston, 1996


Tuong-Quang Tran, MD, Kaohsiung Medical, Taiwan, 1981

Associate

Ronald Pike, BA, Assumption, 1971; MD, University of Rome, Italy, 1976

Established in 2008, the Department of Quantitative Health Sciences (QHS) is enhancing the clinical and translational research enterprise at UMass Medical School. The department complements the recently established UMass Center for Clinical and Translational Science and is organized around three academic divisions: Medical Informatics and Implementation Science; Biostatistics; and implementation studies; and analysis of effectiveness and implementation and data analysis; bridging the gap between clinical evidence generation (effectiveness research) and implementation science (efficacy and population-based research); developing and implementing protocols for high-quality, cost-efficient data collection and management; teaching methods for health services research, including specialized approaches to design and analysis of effectiveness and implementation studies; mentoring students and faculty in full support of the University’s goals for diversity in the academic setting; and providing a range of enhanced learning and skill-building opportunities, including workshops, mini-courses and seminars, for clinical and translational researchers.
By consolidating, linking and expanding resources for quantitative methods and study design at UMMS, QHS will promote team-based research programs across quantitative, clinical and basic-science disciplines.

As a central strategy in the start up of this new department, QHS will recruit new junior and senior faculty with methodological expertise in disciplines such as study design, epidemiology, biostatistics, outcomes and effectiveness research, health services research, and implementation research. QHS academic faculty will play dual roles by pursuing independent research interests while strengthening ongoing research collaborations with junior and more seasoned investigators.

In 2010, QHS will be located in 21,500 square feet of new space in the Advanced Center for Clinical Education and Science, residing in the same building as several UMass Memorial Health Care centers of excellence ambulatory clinics. This proximity will lend itself to the development of unique clinical and translational research partnerships.

Quantitative Health Sciences Faculty

Professor and Chair

**Catarina Kiefe**, PhD, SUNY Stony Brook, 1973; MD, California/San Francisco, 1983

Professor and Vice Chair


“The best part about UMass Medical School’s program is early exposure to patients in the first year. This gives us context for what we are learning in the classroom.”

**Diana Robillard**
Class of 2011

In UMass Medical School labs, classrooms and clinical sites, students ask questions of accessible instructors. “I’ve never met a faculty member who wasn’t approachable, be they a basic scientist or a clinician.” Diana attributes this to a culture of community at the Medical School, where helping one another is encouraged.
The Department of Radiation Oncology:
- is one of the largest in New England, providing state-of-the-art clinical treatment service to cancer patients in Worcester County;
- delivers more than 34,000 external tele-therapy treatments to patients each year at the UMass Memorial Medical Center University and Memorial campuses and the HealthAlliance Hospital campus in Fitchburg;
- houses an internal school for radiation therapy technology that has graduated 18 classes of highly specialized and actively recruited students since its inception in 1989; and
- initiated a two-year Medical Physics Residency program designed to meet growing demand for clinically experienced physicists and CAMPEP (Commission on Accreditation of Medical Physics Educational Programs) requirements for certification by the American Board of Radiology.

The Department of Radiation Oncology provides radiation medicine to the region’s oncology patients and serves as the academic infrastructure for radiation science for UMMS.

Using image-guided platforms with three-dimensional treatment simulators for treatment planning and execution, the department provides extensive brachytherapy services including all facets of genitourinary and gynecological applications to patients.

Radiation Oncology houses the Quality Assurance Review Center or QARC, which is the quality assurance vehicle and data management service for diagnostic imaging and radiation oncology for the National Cancer Institute clinical trials program.

Led by the department chair as its director and principal investigator, the QARC acquires and reviews imaging and treatment objects on a pre-therapy basis to ensure compliance of treatment to protocol management for patients on clinical trials in nearly all clinical cooperative groups and image-guided industry trials. It is housed in Providence, Rhode Island.

Radiation Oncology has several research interests, with particular emphasis on signaling pathways and cellular adhesion molecules. Most of the targeted oncology therapies developed in the past five years include tyrosine kinase-based therapies that sensitize cancer cells to radiation therapy. Identifying the interactions between these therapies and radiation therapy is the focus of the translational research effort, with collaborations promoted through the departments of Cancer Biology and Cell Biology.

Medical Physics research efforts include development of advanced treatment planning techniques, radiobiological dose response and clinical database design for outcome modeling.

Radiation Oncology Faculty

Professor and Chair

Professors
*Harrison G. Ball, BS, Saint Joseph’s, 1967; MD, Tufts, 1972
*Richard R. Gacek, BS, Notre Dame, 1952; MD, Buffalo, 1956

*Lucia Languino, PhD, Negri Institute of Pharmacology, 1984
*Richard P. Moser, MD, Loyola, 1974
Marcia M. Urie, AB, Mt. Holyoke, 1969; MS, Cornell, 1976; PhD, Florida, 1979

Clinical Professor
Sidney Kadish, BA, Columbia, 1963; MD, Chicago, 1967

Associate Professor
*Oguz I. Çatalepe, MD, Hacettepe, 1982

Clinical Associate Professors
Jesse N. Aronowitz, BS, SUNY Stony Brook, 1973; MD, Hahnemann, 1977
*Daniel Y. Kim, BA, Boston, 1976; MD, Rutgers, 1980
Yuan-Chyuan Lo, BS, Tsing-Hua, 1975; MS, 1977; PhD, Yale, 1986
Charles Mayo, BS, SUNY Stony Brook, 1984; PhD, UMass Amherst, 1991
Richard Pieters, AB, Princeton, 1970; MEd, Boston, 1974; MD, Brown, 1982
Joanna M. Sawicka, BSc, Birmingham (UK), 1969; MB, ChB, 1972; MRCP, London, 1975
Ken Ulin, AB, Harvard, 1971; MS, Tufts, 1979; PhD, 1984

Assistant Professors
Shelagh McCauley, MBCh, Queen’s (Belfast), 1966
*Susan Zweizig, BA, California, 1980; MD, Harvard, 1985
* joint appointment
Radiology

Radiology’s expert faculty members include:
- physicians selected as members of “Best Doctors in America” and America’s Registry of Outstanding Professionals: Krishna Kandarpa, MD, PhD; Jerry Balikian, MD; and Ajay Wakhloo, MD, PhD;
- a faculty member on the UMMS team that performed pancreatic islet cell transplantation into the liver of a diabetic patient using catheter-based techniques, eliminating the patient’s insulin dependency; and
- an internationally renowned group of researchers who have garnered the department a new, high National Institutes of Health ranking among U.S. radiology departments.

The Department of Radiology interacts with students at various times during their course of study at the Medical School. In the first year, the department employs a variety of imaging studies to illustrate sections of gross anatomy. The course Introduction to Radiology includes thoracic, abdominal, musculoskeletal, vascular and neurological diseases.

Month-long elective clerkships are offered for third-and fourth-year students at UMass Memorial Medical Center and affiliated hospitals. Students rotate through the sub-specialty areas, which include: computed tomography; ultrasound magnetic resonance imaging; vascular interventional radiology; pediatric radiology; neuroradiology; gastrointestinal, musculoskeletal and thoracic imaging; and nuclear medicine.

Opportunities to observe the entire spectrum of imaging procedures, both diagnostic and interventional/therapeutic, are provided. Additional month-long advanced clerkships are available in vascular interventional radiology, neuroradiology and pediatric radiology, as are other individually tailored sub-specialty rotations.

The Department of Radiology has recently been funded to acquire new technology, staff and operational support, including a clinical and research partnership with Massachusetts-based Philips Medical Systems; in 2005, UMass Medical School became a Philips show site for its potential customers. Additional enhancements include the installation of a fully electronic paperless service including a Picture Archiving System, computed radiography, voice recognition for reporting, and the establishment of state-of-the-art neuro-interventional and breast screening digital mammography services. The department has also completed construction and recruitment of scientists for its new Center for Innovative Imaging & Intervention (CI3), which contains a dedicated angiographic research suite and a 3.0 Tesla MR scanner.

Radiology Faculty

Professor and Chair

Professors
Mitch Albert, BS, New York; PhD, 1993
Jerry P. Balikian, BA, American (Lebanon), 1951; MD, 1955
Alexei A. Bogdanov, PhD, Moscow State, 1989
Donald J. Hnatowich, BS, Manitoba, 1963; MSc, 1964; PhD, MIT, 1968
Sarwat Hussain, MBBS, King Edward Medical College, Pakistan
Murray L. Janower, BA, Detroit, 1954; MD, Wayne State, 1958
Krishna Kandarpa, BS, Washington University in St. Louis, 1970; PhD, Pennsylvania State, 1975; MD, Miami, 1980
Andrew Karellas, BS, Worcester State, 1979; PhD, California/Los Angeles, 1985
Michael A. King, BA, SUNY Oswego, 1969; MS, SUNY Albany, 1971; PhD, Rochester, 1977
Ajay Wakhloo, MD, University of Mainz, 1984; PhD, 1986

Adjunct Professors
Edward H. Smith, BA, Columbia, 1956; MD, SUNY Downstate, 1960
Christopher H. Sotak, BA, Northern Colorado, 1975; MA, 1980; PhD, Syracuse, 1983; MBA, WPI, 1995

Adjunct Associate Professor
Edward Soares, BA, Providence College, 1987; MS, Arizona, 1992; PhD, 1994

Associate Professors
*Seth T. Dahlberg, BA, Williams, 1977; MD, Tufts, 1981
Robert K. Desai, BS, MIT, 1977, MD, SUNY Stony Brook, 1981
Young Hwan Kim, BS, Hanyang, 1982; MD, 1986; PhD, Ulsan, 1999
Eddie Kwan, BS, Ohio State, 1972; MD, Tufts
Robert Licho, BA, NYU, 1980; MD, Albany Medical, 1985
Lawrence J. Moss, BA, Vermont, 1966; MD, 1973
David A. Phillips, BS, Alcorn A&M, 1959; MD, Meharry, 1970
Petrus Hendrik Pretorius, BS, Stellenbosch, 1980; PhD, Orange Free State, 1994
Sridhar Shankar, BA, Birla College, 1986; MD, Medical College of Calcutta, 1991
Yanping Sun, BS, Liaoan University, China, 1986; PhD, Tokyo University and Harvard, 1999
Deepak Takhtani, MD, Armed Forces Medical College, Pune, 1983

Clinical Associate Professors
Charu S. Desai, BS, Saravajnik College of Science, 1968; MBBS, Government Medical, 1972
Paulomi K. Kanzaria, MBBS, Topiwa National, 1977
Mona M. Korgaonkar, MBBS, Armed Forces (India), 1987; MS, Institute of Medical Education (India), 1970; MD, 1973
Peter Simkin, BA, Williams, 1968, MD, Tufts, 1972
Eugenio L. Suran, MD, Buenos Aires, 1963

Research Associate Professors
Stephen J. Glick, BS, Vermont, 1982; MS, WPI, 1988; PhD, 1991
Mary Ruscikowski, BA, Albertus Magnus, 1975; PhD, Rutgers, 1981

* joint appointment (continued)
Surgery

The Department of Surgery has a long history of dedication to the education and mentorship of medical students. It is the aim of the department to provide a broad-based body of knowledge and basic technical skills that are applicable to all areas of medicine, with additional opportunities for more specialized study, based on individual student interest. These goals are accomplished in collaboration with several community hospitals throughout Massachusetts.

The core third-year clerkship is comprised of 12 weeks, divided into two, six-week blocks. Students participate first in general/vascular surgery, where they have an opportunity to become an active and integral member of the care team. This includes not only the day-to-day treatment of patients, but also regular participation in the operating room setting. This experience is complemented by attendance at surgical clinics and offices, where students are able to assist in providing outpatient care. The alternating six weeks are spent on a variety of surgical subspecialties, including thorough outpatient, inpatient and operating room experiences. Enhancement of learning opportunities occurs through student participation in regular conferences and lectures.
Fourth-year students are encouraged to enroll in a variety of month-long general surgery or subspecialty electives in order to obtain more advanced knowledge. Students may choose an individual preceptor or design a more formal subinternship. Selected students who are interested in pursuing a career in surgery may also choose to participate in a two-month Senior Scholars Program, accomplished under the guidance of a faculty preceptor and involving both clinical and research training.

**Surgery Faculty**

**Professor and Chair**
Demetrius E. M. Litwin, MD, Saskatchewan, 1979

**Professors and Vice Chairs**
Elias J. Arous, MD, Aleppo, 1975
Lynn H. Harrison Jr., BA, Yale, 1966; MD, Oklahoma, 1973
Louis M. Messina, BA, Fordham, 1973; MD, SUNY Brooklyn, 1978

**Professors Emeriti**
A. Alan Conlan, MD, National, 1966
John B. Herrmann, BA, Dartmouth, 1954; MD, Harvard, 1957

**Professors**
Howard Hughes Medical Institute Investigator; Lambi and Sarah Adams Chair in Genetic Research
*Michael R. Green, BS, Wisconsin, 1974; MD, PhD, Washington, 1981
Harry M. Haidak Professor of Surgery Emeritus
H. Brownell Wheeler, MD, Harvard, 1952
Kethandapatti C. Balaji, MBBS, Madras Medical, 1986
Giacomo P. Basadonna, MD, Milan, 1982; PhD, 1993
Bruce S. Cutler, BA, Princeton, 1962; MD, Harvard, 1966
Raymond M. Dunn, BS, WPI, 1978; MD, Albany Medical, 1982
Geoffrey M. Graeber, BA, Yale, 1967; MD, Syracuse, 1971
*Stephen O. Heard, BSE, Princeton, 1975; MD, Texas, 1978

**Clinical Professors**
Gary M. Fudem, AB, Stanford, 1978; MD, Case Western Reserve, 1982
*Jane C. Sargent, BA, Radcliffe, 1964; MD, Hahnemann, 1974

**Research Professors**
Frederick A. Anderson Jr., BS, BA, Tufts, 1971; MS, WPI, 1975; PhD, 1984
Jian-Ming Li, MD, Shanghai First, 1955
*Babs R. Soller, BS, Union, 1975; MA, Princeton, 1977; PhD, 1980

**Adjunct Professor**
Michael D. Wertheimer, BA, Swarthmore, 1967; MD, Pennsylvania, 1971

**Associate Professors**
Joseph Arcidi, BS, Boston College, 1978; MD, Johns Hopkins, 1982
*Thomas F. Breen, BA, Williams, 1976; MD, Vermont, 1981
Oguz I. Çatalöpe, MD, Hacettepe, 1982
Paul M. Haidak, BS, Union, 1967; MD, Albany Medical, 1971
Janice F. Lalikos, BA, Case Western Reserve, 1984; MD, Johns Hopkins, 1988
Anne C. Larkin, BM, Missouri, 1987; MD, Columbia, 1992
*Dominic J. Nompleggi, AB, Georgetown, 1972; MS, 1974; PhD, 1977; MD, 1982
Francis J. Podbielski, BA, Chicago, 1984; MS, 1986; MD, Northwestern, 1990
Bruce J. Simon, BA, NYU, 1975; MD, New York Medical College, 1979
William Brian Sweeney, BS, Scranton, 1979; MD, Hahnemann, 1983
John P. Weaver, BS, Bucknell, 1978; MS, Case Western Reserve, 1980; MD, Texas, 1986
* joint appointment

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**Department of Surgery Division and Section Chiefs**

**Cardiothoracic Surgery** - Stanley K. C. Tam, MD

**General Surgery** - John J. Kelly, MD

**Minimally Invasive Surgery (Endosurgery)** - Donald R. Czerniach, MD

**Bariatric Surgery** - Richard A. Perugini, MD

**Neurosurgery** - Richard P. Moser, MD

**Organ Transplantation** - Adel Bozorgzadeh, MD

**Pediatric Surgery** - Michael P. Hirsh, MD

**Plastic & Reconstructive Surgery** - Raymond M. Dunn, MD

**Surgical Oncology** - Giles F. Whalen, MD

**Thoracic Surgery** - Geoffrey M. Graeber, MD

**Trauma and Surgical Critical Care Services** - Timothy A. Emhoff, MD

**Urology** - Kethandapatti C. Balaji, MBBS

**Vascular Surgery** - Louis M. Messina, MD
(Surgery Faculty continued)

Clinical Associate Professors

Philip J. Ayvazian, MD, UMass Worcester, 1988; MS, Tufts, 1989
Mitchell H. Bamberg, BA, Emory, 1978; MD, Albany Medical, 1982; MBA, Plymouth State, 1999
Sheldon Brotman, BA, Gettysburg, 1962; MD, Maryland, 1966
Timothy B. Hopkins, BA, South Dakota, 1967; BS, 1968; MD, Harvard, 1970
*David A. Kaufman, BS, McGill, 1974; MD, Queen’s, 1980
John V. Shufflueberger, BA, West Virginia, 1983; MD, 1987

Assistant Professor Emeritus

Louis F. Anastasia, BS, Georgetown, 1956; MD 1960

Assistant Professors

Mustafa Akyurek, MD, Hacettepe, 1990
Karim Alavi, BS, George Washington, 1990; MD, 1995
Richard M. Basile, BS, Tufts, 1973; MD, SUNY Buffalo, 1977
Robert D. Blute Sr., AB, Boston College, 1943; MD, Tufts, 1946
Robert D. Blute Jr., BS, Boston College, 1970; MD, Tufts, 1974
Mitchell A. Cahani, BA, Maryland, 1984; MLS, 1986; MD, Johns Hopkins, 1996
Aleksander Chudnovsky, BA, Brandeis, 1995; MD, Boston, 2001
Harvey G. Ciermont, BS, Holy Cross, 1961; MD, Harvard, 2005
Michael S. Cohn, BA, Pennsylvania, 1969; MD, SUNY Downstate, 1973
George A. Csanko, MD, Pêêcs, 1983
Hongyi Cui, MD, Beijing Medical University, 1990; PhD, Connecticut, 2000
Eugene L. Curletti, BS, Tufts, 1969; MS, 1971; MD, Vermont, 1975
Donald Czernecki, BA, Lehigh, 1990; MD, New Jersey, 1995
Michael R. DiSiena, BS, Siena, 1989; DO, New York College of Osteopathic Medicine, 1994
David L. Dykhuizen, BA, Vermont, 1970; MD, Ohio State, 1975
Robert D. Fanelli, BS, Richmond, 1982; MD, Pennsylvania, 1986
Susan C. Fiorillo, BA, Bryn Mawr, 1976; DMD, Pennsylvania, 1980
Anne M. Gilroy, BA, Rhode Island, 1974; MA, San Jose State, 1980
Subhash C. Gulati, MD, D.A.V. College, 1966; Government (India), 1970
*Wiley Hall, BS, Lehigh, 1996; MD, Drexel, 1999
Sazzad Hassan, MBBS, Dhaka Medical College, 1998; PhD, Kobe University, 1998
Philip J. Howard Jr., BS, Bowdoin, 1956; MD, Michigan, 1961
Margaret M. Hudlin, BSN, Simmons, 1979; MD, Harvard, 1992
Stuart R. Jaffee, BS, Tufts, 1951; MD, 1955
Allen B. Kantowitz, BS, MIT, 1976; MD, Michigan, 1980
Nam Heui Kim, BS, California/Berkeley, 1985; MS, 1989; MD, Albert Einstein, 1993
Laura A. Lambert, BA, Bowdoin, 1988; MD, Harvard, 1996
Andrew B. Lederman, BS, Yale, 1990; MD, Virginia, 1997
John K. McIlwaine, BS, Northwest Missouri State, 1992; DO, University of Health Sciences, 1999
Justin A. Maykel, BS, Tufts, 1993; MD, 1998
Robert D. Moore, BS, Bates, 1994; MS, Saba University School of Medicine, 1999; MD, 2002
Pradeep P. Nazarey, BS, Cornell, 1995; MD, 2000
David Noyes, BA, Cornell, 1972; MD, Vermont, 1976
Michael A. O’Shea, MB, BCH, BAO, National University of Ireland, 1972
Bhalchandra G. Parulkar, MD, Bombay, 1987
Frederik A. Pennings, MD, University of Leyden Medical School, 1995; PhD, 2007
Julie G. Pliitsis, BS, Rensselaer, 1996; MD, Albany Medical College, 1998; PhD, Wayne State, 2002
Andres Schanzer, BA, Harvard College, 1996; MD, NYU, 2000
Shimul A. Shah, BS, Pennsylvania State, 1993; MD, Jefferson Medical College, 1997
James M. Shenko, BA, Rutgers, 1987; MD, Robert Wood Johnson Medical School, 1991
Paul Silverstein, BA, New York, 1969; MD, New York Medical, 1974
*Brian S. Smith, BS, Massachusetts College of Pharmacy and Health Sciences, 1997; PharmD, 1999
Harry W. Smith, AB, Providence, 1965; MD, College of Medicine and Dentistry of New Jersey, 1969
Mark E. Stoker, BS, Nichols State, 1979; MD, Louisiana State, 1983
Arno S. Sungarian, BS, Columbia, 1993; MD, Brown, 1997
Stephens D. Taylor, BA, Mississippi, 1978; MD, 1982
Ulises Torres, MD, Universidad Nacional Autonoma de Honduras, 1998
Stephen E. Tosli, AB, Dartmouth, 1966; MD, Cornell, 1970
Karl Fabian L. Uy, MD, Manila Central University, 1989
Richard H. Whitten, BS, Tufts, 1968; MD, 1972
Louis J. Wojciech, BA, Fordham, 1988; MD, Vanderbilt, 1992
Jason T. Wong, BS, Saskatchewan, 1994; MD, 1998

Clinical Assistant Professors

Paul Arcand, BS, Providence, 1987; MD, Tufts, 1991
Konstantino A. Avradopoulos, BS, Akron, 1984; MD, Northeastern Ohio, 1988
Paula B. Bellin, BA, Rochester, 1984; MS, Boston, 1986; MD, 1994
John Castle, BS, Rochester, 1985; MD, 1989
Gregory Gallivan, BS, Tufts, 1958; MD, 1962
Wayne B. Glazier, BS, Case Western Reserve, 1970; MD, SUNY Buffalo, 1974
Abraham Haddad, BA, Boston, 1963; DMD, Tufts, 1967
Leon G. Josephs, BS, Boston College, 1980; MD, Boston, 1984
John Kears, BS, Fordham, 1968; MD, Albany Medical, 1972
Basil Michaels, BA, Columbia, 1983; MD, 1987
Peter Miotto, BA, Yale, 1985; MD, California/Irvine, 1994
Praneetha Narahari, MBBS, Osmania, 1988
Michael D. Thompson, BS, UMass Lowell, 1993; MS, California/Los Angeles, 1985; MD, UMass Worcester, 1993

* joint appointment
Research Assistant Professors

Cheng Du, BS, Peking University, 1985; PhD, Nebraska, 1996
Gordon A. FitzGerald, AB, Princeton, 1972; MS, Northeastern, 1974; PhD, UMass Amherst, 1994
Frederick H. Hooven, BA, Connecticut College, 1982; MMHS, Brandeis, 1984; PhD, UMass Amherst, 2005

Adjunct Assistant Professors

Kristen L. Billiar, BS, Cornell, 1991; MS, 1992; PhD, Pennsylvania, 1998
Jeffrey J. Fong, PharmD, SUNY Buffalo, 2003

Senior Affiliates

W. Gerald Austen, BS, MIT, 1951; MD, Harvard, 1955
Mortimer J. Buckley, BA, Holy Cross, 1954; MD, Boston, 1958

Affiliates

Robert S. Bennett, AB, Dartmouth, 1964; MD, Cornell, 1970
Jeffrey S. Isen, BA, SUNY Albany, 1973; MD, SUNY Buffalo, 1980
W. David Kelly, BS, Boston College, 1969; DMD, Tufts, 1973
Mohan K. Korgaonkar, BS, Bombay (Wilson), 1963; MBBS, Armed Forces (India), 1969
Cynthia M. Poulos, BA, NYU, 1981; MD, SUNY Stony Brook, 1985
Keith Rae, DMD, Pennsylvania, 1981; MD, 1984
Charanjit S. Rao, MD, Government (India), 1971

Instructors

Katherine Bailey, BSN, Fitchburg State, 1979; MSN, UMass Lowell, 1997
Philip A. Cohen, BA, Boston, 1997; MD, 2001
You Fu Li, BA, Zunyi Medical College, 1982; MD, Hunan Medical University, 1988; MPH, UMass Amherst, 2004
Larry Lockerman, BA, Yeshiva, 1973; DDS, College Of Dentistry, 1977
Vinetta M. McCann, BSN, New York; MS, UMass Worcester, 1997
Theodore P. McDade, BS, Clarkson, 1985; SM, MIT, 1989; MD, Jefferson Medical College, 1996
Mohan P. Pahari, I.Sc, Amrit Science College, Nepal, 1987; BS, Tribhuvan University, 1991; MD, Shanghai Second Medical University, 2001
Mary Sullivan, BS, Fitchburg State, 1976; MS, UMass Worcester, 1994
Melinda Taylor, BS, WPI, 1987

Clinical Instructors

Joseph Adolph, BS, MIT, 1966; MD, Tufts, 1970
Mark S. DiStefano, MD, Georgetown, 1979

Research Instructor

Karen Kodys, BA, New Hampshire, 1976