

CURRICULUM VITAE

MANUELA MARTINS-GREEN

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April, 2010

EDUCATION

B.S., Biology, University of Lisbon, Portugal.

M.S., Plant Pathology, University of California, Riverside.

Ph.D., Zoology, University of California, Davis.

Dissertation: Ultrastructural and Immunolabeling Studies of the Neural Crest:
 Processes Leading to Neural Crest Cell Emigration.

Postdoctoral Researcher, Laboratory of Cell and Molecular Biology, Lawrence Berkeley
 Laboratory, Berkeley, Ca, 1987-1988.

Research topic: Wound healing and tumorigenesis

National Research Service Award (NRSA) Postdoctoral Fellowship, Laboratory of Cell and
 Molecular Biology, Lawrence Berkeley Laboratory, Berkeley, CA, 1988 - 1991.

Research topic: Wound healing and tumorigenesis

EMPLOYMENT HISTORY

Adjunct Assistant Professor, Department of Molecular Oncology, Rockefeller University, N.Y.,
 N.Y. 1991-1992.

Research Scientist II (Faculty Series), Cell and Molecular Biology Division, Lawrence Berkeley
 Laboratory, Berkeley, CA, 1992-1993.

Assistant Professor of Biology, University of California, Riverside, CA,
 Dept. of Biology, 1993-1999.

Assistant Professor of Cell Biology, University of California, Riverside, CA,
 Dept. of Cell Biology and Neurosciences, 1999-2000.

Associate Professor of Cell Biology, University of California, Riverside, CA,
 Dept. of Cell Biology and Neurosciences, 2000-2006.

Professor of Cell Biology III, University of California, Riverside, CA, Dept. of Cell Biology and
 Neuroscience, 2006-2008.

Professor of Cell Biology IV, University of California, Riverside, CA, Dept. of Cell Biology and
 Neuroscience, 2008-present.

HONORS AND AWARDS

Predoctoral

Fulbright Travel Grant for graduate study in USA.
 Departmental Fellowship, Department of Plant Pathology, UC Riverside.
 Elected to Phi Kappa Phi.
 NIH Traineeship, Cellular and Molecular Training Grant, UC Davis.
 Regents Fellowship, UC Davis.
 Graduate Research Award, UC Davis.
 Jastro-Shields Research Award, UC Davis.

Postdoctoral

NRSA Postdoctoral Fellowship (NIH), Lawrence Berkeley Laboratory.

Faculty

1995-1998 Associate Editor, Journal of Molecular Oncology
 1995-1996 Regents Faculty Fellowship, UC Riverside,
 1998-2002 Department of Defense Breast Cancer Rev Panel, Immunology Study Section #2
 1998 Speaker for the Annual Wound Healing Society Meeting,.
 1998 Nominee, Academic Achievement Jr. Award, Women in Cell Biology, ASCB.
 1999 Invited Speaker, Keystone Meeting on Chemokines and their Receptors.
 1999-2000 Faculty Development Award, UC Riverside,
 2000 Visiting Scientist, Lab. of Molecular Immunoreg., Natl. Cancer Inst., Frederick, MD.
 2000 Nominee for the Outstanding Teaching Award at UCR, Spring
 2000 Selected to organize a pre-meeting sub-group symposium on “The Cell Biology of Chemokines in Host Defense, Wound Healing and Disease” for the annual meeting of the American Society for Cell Biology (ASCB).
 2000 Invited to participate as a chemokine expert on a workshop sponsored by the Radiation Research Program, Division of Cancer Treatment and Diagnosis, NCI.
 2001- 2006 Member, ASCB Standing Committee, Women in Cell Biology (WICB) and representative of this committee on the education committee.
 2001 Speaker, Angiogenesis Minisymposium, ASCB 42nd Annual meeting.
 2001 Abstract selected for the ASCB Press Book.
 2002-2004 Member, UCR Committee on Committees/Chair 2003-04 (Elected by faculty).
 2003 Major speaker at the Gordon Conference in Vascular Biology, Ventura CA.
 2003 Award from CORE 21, The Technology Forum Series at UC Riverside, for Contrib. to Research Leadership and Technical Innovation to our Larger Society
 2003-present Member of the Advisory Board for the California Annual Tissue Engineering Meeting
 2004 Abstract selected for the ASCB Press Book.
 2004-2006 Chair of the UCR Division of the Academic Senate (Elected by faculty)

- 2004-present External Associate, Vanderbilt Institute of Integrative Biosystems Research and Education (VIIBRE), Vanderbilt University, Nashville, Tennessee.
- 2005 Nominated by UCR for the Independent Citizens Oversight Committee (ICOC) of the California Institute of Regenerative Medicine.
- 2005-present Member, Editorial Board of “Current Stem Cell Research & Therapy”
- 2006 Abstract selected for the ASCB Press Book.
- 2007-2008 Visiting Scientist. Stanford University.
- 2008 Program Co-chair for the Wound healing Society annual meeting
- 2008-2009 UCR Distinguished Service Award
- 2008-2009 Co-winner of the UCR Innovative Teaching Award
- 2008-present Guest Professor, Northwest University in Xian, China
- 2009-present Affiliated Professor of the Faculty of Medicine, University of Porto, Portugal
- 2009-present Assoc. Editor of BMC Cell Biology.
- 2009- present Assoc. Editor of Creative Education (International Journal).
- 2009-2012 Chair of the Awards Committee for the Wound Healing Society
- 2009-2012 Editor of the Wound Healing Society Newsletter
- 2010- present Member of the Inaugural Board of Directors of the UC School of Global Health

FIELDS OF STUDY

Cell and Molecular Biology of Wound Healing and Tumorigenesis and the Role of Chemokines/Cytokines/Growth Factors on these processes. The Effects of Environmental Toxicants on Wound Healing. Engineering of Human Tissues.

RESEARCH PROGRAM

My research program focuses on understanding the cell and molecular mechanisms involved in normal and impaired healing and in tumorigenesis. The work in my laboratory has three foci:

1) Wound healing

A. Normal processes. In the early stages of my career, I pioneered investigation of the role of chemokines in wound healing. A recent search through the Web of Science on publications involving Chemokines and Wound Healing places UCR on top of all other institutions and me as the top investigator in the field [<http://cbns.ucr.edu/faculty/martins-green.html>]. Chemokines are small, secreted, stress-response cytokines that are highly conserved among higher vertebrates and are now known to be important in inflammatory diseases, viral infections (e.g. HIV), fibrosis and tumorigenesis. As my program has developed, I have concentrated on activation, expression, function and mode of action of chemokines in healing, using animal models and complex human cultures (see #2 below). Our studies have focused

on the chemokine, Interleukine-8 (IL-8), what agents at the wound site stimulate its expression, the signal-transduction mechanisms by which this expression occurs, and what functions IL-8 performs during the healing process. Our goals are to: (a) Identify commonalities in the signal transduction and transcription activation mechanisms that may lead the way to regulating the expression of chemokines for potential medical applications; (b) test the effects of IL-8 on the principal cellular components of the granulation tissue of wounds -- fibroblasts, myofibroblasts, endothelial cells, keratinocytes and immune cells – accompanied by tests directly to wounds; (c) characterize the function of IL-8 receptor(s) during wound healing. To aid in these studies we have *developed a transgenic humanized mouse model in which human CXCR1 is expressed in all tissues but can be activated in a given tissue by crossing with specific Cre mice*. These mice now have both CXCR1 and CXCR2 receptors and can therefore be used to study all of the effects of human IL-8 *in vivo*, something that was not possible before because a functional CXCR1 receptor has not been found in mice.

B. Impaired healing. I have focused on the effects of environmental toxicants, especially those present in cigarette smoke, on healing. I am particularly interested in how chemokines are involved in these situations. Our goal is to identify key processes affected by cigarette smoke and which chemicals in the smoke cause those effects. We investigate the effects of (primarily) second-hand smoke on: (a) skin wound healing; (b) cornea epithelial wound healing; (c) the development of atherosclerotic plaques (a form of impaired healing of blood vessels). We are now using a mouse model that mimics the common human conditions that lead to atherogenesis. We are also developing a human assay system (see #2) to identify the smoke components (or groups of components) responsible for initiation of atherosclerotic plaque formation. These latter studies also led us to discover that second hand cigarette smoke stimulates high levels of circulating triglycerides which are a major factor in development of non-alcoholic fatty liver disease (NAFLD), a condition that leads to liver cirrhosis and ultimately to liver failure. We have deciphered the molecular mechanisms by which cigarette smoke stimulates NAFLD and, to continue to understand the effects of cigarette smoke on liver biology and pathology, *we are currently developing a human liver lobule*. With this engineered tissue we will be able to understand the effects of the smoke toxins on the liver, to determine how the liver detoxifies and how it metabolizes the toxins so that ways can be developed to prevent liver disfunction. More recently, using genetic manipulations, we have also *developed a chronic wound model* that leads to delayed wound healing and when infection ensues leads to a chronic wound.

C. Bench to bedside. We are using multiple factors to treat wounds in a time- and concentration-dependent manner to discover combinations that not only improve healing but also the regenerative capacity of the tissue. We are particularly interested in developing treatments for large burns. Through collaborations, we are developing matrices that are biocompatible, can be applied in large areas, and are biodegradable - either naturally or by applying an enzyme.

2) Engineering of human tissues. In order to test the relevance for human biology of some of the hypotheses we have developed in animal systems, we are developing complex tissue

cultures using primary human cells. We have already developed a novel human “skin” organ culture that we are now using to study some of the fundamental cell and molecular processes in normal and abnormal healing. We have also developed a system that allows us to test the effects of inflammatory agents on endothelial/epithelial permeability and we are currently developing an arterial wall model system for studies of atherogenesis induced by first- and second-hand cigarette smoke. Finally, *we are also developing an organ culture of a liver lobule* for studies of liver function and metabolism, in particular detoxification (see #1B).

3) Role of chemokines in development and progression of prostate cancer. We are currently studying the effects of Pomegranate Juice (PJ) on various chemokine/chemokine-receptor axes in prostate cancer progression. For this we are employing a multi-prong approach using gene, miRNA and Multiplex ELISA assay arrays coupled to integrative software to profile the mechanisms of action of PJ when deterring cancer progression of hormone insensitive prostate cancer cells. An abstract we presented at the 2009 American Society for Cell Biology Annual meeting was chosen by the Faculty of one thousand to be featured in their website.

ADMINISTRATIVE EXPERIENCE

For two years (2004-06) I served as *Chair of the Riverside Division of the Academic Senate of the University of California*. This is an elected position for a period of two years. When I assumed this position the Academic Senate Office and the Senate in general were dysfunctional. I immediately garnered resources from the Chancellor and the executive Vice-Chancellor to turn the office into a functional unit and to be able to engage the faculty into participating and taking responsibility for their portion of the shared governance that is the hallmark of the UC system. I summarize here the major accomplishments during my tenure as Chair. (1) Brought greater visibility and stature of the Senate in the eyes of the Administration and also in the eyes of the Statewide Senate. (2) Increased the number of FTE in the Senate office to a total of 5.5 FTE when I left, from 2 when I came in. To accommodate the new FTE, we renovated the office and acquired additional space. By the time I left, the staff was fully equipped and qualified to carry out all of the functions of the Senate committees. (3) As a result of numerous complaints, I formed an Ad-hoc committee on Faculty Advancement to look into issues of merits and promotion and faculty advancement at UCR compared to the other campuses and the possibility of bringing CAP to the Senate from the office of the Vice Provost for Academic affairs (this was accomplished in the Fall of 2006). (4) I also resurrected plans for a new University Club, obtained the Chancellor's support, and a financial plan was developed. Unfortunately, this initiative was not followed up on by my successor. (5) Initiated reviews of the General Education Curriculum: developed policy for systematic review of Undergraduate Programs and reviewed the structure of the Life Sciences Undergraduate Programs. I also initiated the process of bringing the conversion factor to 1.0, which is critical for bringing more resources to the campus and developed and implemented a new teaching evaluation form. (6) Continued to develop means to re-engage the faculty with the Senate. (7) Finally, I delineated a number of issues that needed to be brought to fruition by the next chair: ** work on curricular reform, ** engage more faculty in Senate service, ** enhance fairness in merits and promotions, ** develop plans for the University Club; ** re-evaluate the way that faculty is given credit for teaching ** bring back an appropriate salary scale that is compatible with market compensation. Many are still in the works but others have been accomplished.

For my many accomplishments in this position, *I was awarded the 2008 Distinguished Service Award for the UCR Campus*.

PATENT/DISCLOSURES

1. 2001 Martins-Green et al. US Patent Application no. 09/811,162 for "Chemokines and methods for inducing the differentiation of fibroblasts to myofibroblasts." Filed March 16, 2001. Approved.
2. 2001 Martins-Green et al. US Patent Application no. 09/429,050 for "3-D organ culture for skin replacement therapy". Filed December 7th 2001. Not approved.
3. 2002 C. Ozkan et al. US Patent Application no. UC 2002-444-1 for "A novel device for human wound healing"
4. 2003 Martins-Green et al. US Patent Disclosure no. UC 2003-393-1 for "In vitro human endothelial permeability assay." Filed: March 27.

5. 2005 Martins-Green and Lei Zhang. US Patent Disclosure. Generation of a vector to produce conditional transgenic mouse lines. Filed: September, 2005.
6. 2008 Animal models for chronic wound. Disclosure no. UC-2009-333, 2009.
7. 2008 Combination therapies for improved wound healing. Disclosure no. UC-2009-279, 2009.

COLLABORATORS (past and current)

- P. Murphy, NIH, chemokine receptors.
- J. Oppenheim, NCI, Frederick, MD., immunological studies of chemokines
- William Murphy, NCI, Frederick, MD., immunological studies of chemokines
- F. Sladek, UC Riverside, transcriptional regulation of cIL-8
- S. Sudol, Mount Sinai Medical School, NY., src-like tyrosine kinase Yrk.
- P. Talbot, UC Riverside, on effects of smoking on angiogenesis *in vivo*.
- R. Ye, University of Chicago, on isolation and characterization of the receptor for the cCAF protein.
- A. Sharrocks, University of Manchester, School of Biological Sciences, Transcription regulation of cIL-8.
- V. Lingappa, Department of Physiology, UCSF, San Francisco. Chemokines and secretory pathways.
- R. Montesano, Department of Morphology and Cell Biology, University Medical Center, Geneva 4, Switzerland. The effects of chemokines on epithelial morphogenesis.
- Vladimir Parpura, Department of Cell Biology and Neuroscience, UCR. Receptor Ligand interaction using Ca⁺⁺ imaging.
- Eugene Nothnagel, Department of Botany and Plant Sciences, UCR. Aspects of cigarette smoke quantification
- Myriam Altstein, Vulcani Institute, Israel. Cell and Molecular Biology studies of the PBAN receptor.
- John Shyy, Division of Biomedical Sciences, UCR. Cell and Molecular mechanisms of angiogenesis.
- Ameae Walker, Division of Biomedical Sciences, UCR. Cell and Molecular mechanisms of angiogenesis.
- Christian Lytle, Division of Biomedical Sciences, UCR. Signal transduction mechanisms involving intracellular Ca⁺⁺ increase.
- Catherine DeFea, Division of Biomedical Sciences, UCR. Signal transduction mechanisms involving G-proteins.
- Carl Ware, La Jolla Institute for Allergy and Immunology. LIGHT as a mediator of VEGF stimulation of macrophage cells death.
- Annelise Barron, Department of Bioengineering, Stanford University, USA. Encapsulation of insulin and other factors in novel matrices for the treatment of burn wounds.
- Ronald Neufeldt, Department of Bioengineering, Queen's University, Canada. Encapsulation of insulin and other factors in novel matrices for the treatment of burn wounds.

Cengiz Ozkan, Department of Mechanical Engineering, University of CA Riverside University, USA. Human liver on a chip.

Mihri Ozkan, Department of Electrical Engineering/Bioengineering, University of CA Riverside University, USA. Human liver on a chip.

Nicole zurNieden, Department of Cell Biology and Neuroscience/Stem Cell Center, University of CA Riverside University, USA. Human liver on a chip.

Frances Sladek, Department of Cell Biology and Neuroscience/Stem Cell Center, University of CA Riverside University, USA. Human liver on a chip.

Noboru Sato, Department of Biochemistry, University of CA Riverside University, USA. Effects of smoke toxins on migration of cornea epithelial cells

PROFESSIONAL SERVICE

National/International Service

Editorships:

- | | |
|--------------|--|
| 1995-1998 | Associate Editor: “ <i>Oncology Reports.</i> ” |
| 2005-present | Member, Editorial Board of “ <i>Current Stem Cell Research & Therapy</i> ” |
| 2008-present | Member, Editorial Board of “ <i>International Journal of Cell Biology</i> ” |
| 2008-present | Member, Editorial Board of “ <i>Journal of Biomedicine and Biotechnology</i> ” |
| 2009-present | Member, Editorial Board of “ <i>BMC Cell Biology</i> ” |

Committee Service:

- | | |
|---------------|---|
| 1996-present | Congressional Liaison Committee, American Society for Cell Biology, |
| 1996-1998 | UC Riverside representative for Western Regional Developmental Biology Society. |
| 1998-2002 | Membership Committee for the Wound Healing Society. |
| 2000 | Member of the Advisory Panel for the Laboratory of Molecular Oncology, NCI, Frederick for presentations to its Site Visit Committee in March. |
| 2001-present | Member of the American Society for Cell Biology Standing Committee, “Women in Cell Biology (WICB).” |
| 2002- present | Representative of the WICB on the Standing Education Comm. for ASCB. |
| 2003- present | Member of the Program committee for Wound Healing Society Ann Mtg. |
| 2003- present | Member of the Scientific Advisory Committee for the California Tissue Engineering Meeting. |
| 2007-2008 | Program Chair for basic sciences, Wound Healing Society Ann Mtg., San Diego CA |
| 2007-present | Member of the Tissue Engineering and Regenerative Medicine International Society (TERMIS) Advisory Board. |
| 2007 | Member, AP Biology Test Development Committee |

| | |
|--------------|---|
| 2008-2010 | Member of the Program committee for Wound Healing Society Ann Mtg. |
| 2008-present | Member of the Website Committee for Wound Healing Society Ann Mtg. |
| 2009-present | Organized a meeting entitled “New Approaches to Personalized Medicine: Inflammation, Healing and Regeneration as Prototypes”. UCRiverisde |
| 2009-present | Chair of the Department’s Awards Committee |
| 2009-present | Editor of the WHS newsletter |
| 2009-present | Chair of the WHS Awards Committee |

Journals Reviewed for:

Addiction (1)
 BBAGEN (1)
 BIOPHYSJ (1)
 BMC Cell Biology
 Circulation Research
 Current Stem Cell Research & Therapy (1)
 Cytokine
 Developmental Biology
 EMBO
 FASEB
 Experimental Dermatology (1)
 FEBS letters (1)
 Genes
 Histochemistry and Cytochemistry (1)
 International Journal of Cell Biology
 J. of Leukocyte Biology (3)
 J. of Cell Biology
 J. of Cellular and Molecular Medicine (1)
 J. of Cellular Biochemistry
 Life Sciences
 Molecular and Cellular Endocrinology (1)
 Oncology Reports
 Oncogene (1)
 Physiological Genomics (1)
 PNAS
 Radiation Research
 The International Journal of Biochemistry and Cell Biology
 The Journal of Investigative Dermatology (1)
 Thrombosis and Hemostasis
 Tissue Engineering (1)
 Wound Repair and Regeneration (4)
 Wound Repair and Regeneration Year Book (3)
 Reviewing as editor (4)

Books Reviewed:

- 1990 Molecular Cell Biology by J. Darnell et al. (Chapter on Extracellular Matrix),
Freeman.
- 1995 - 1996 Biology by P. Raven, Wm. C. Brown Publ. (2 Chapters).
- 1996 Cell and Molecular Biology: Concepts and Experiments by G. Karp, John Wiley
and Sons.
- 1998 - 1999 Essential Cell Biology (Alberts et al., eds.), Garland Publications.

Reviewed Proposals for:

UC Campus-DOE Laboratory Collaborative Program: 15 proposals, 1994-96
NSF 1991
MHRC, 1991
DOD/BCRP, Immunology study section #2, 1998 - 2001
United States-Israel Binational Science Foundation, 2001
AHA, Committee 4A, 2004-2007
Phillip Morris, 2002-2004
NASA, 2003
Rehabilitation Res. and Dev, 2005
Israel Science Foundation, 2006
National Institutes of Health, 2009

Participation in Professional Meetings**Gordon Conferences**

Fibronectin: 1985
Chemokines and their Receptors: 1996, 1998, 2000, 2002.
Wound Repair and Regeneration: 1999, 2001, 2003, 2005, 2007, 2009.
Angiogenesis: 1999.
Vascular Biology: 2000, 2003.

Keystone Meetings

Wound Healing and Tissue Engineering 1993, 1996
Chemokines and Chemokine Receptors 1998, 2001, 2003.
ECM/Angiogenesis in Cancer and Other Diseases: From Genes to Function to Therapy 2002.

American Society for Cell Biology (ASCB)

Annual Meetings: 1985-1991; 1993 - present

Wound Healing Society

Annual Meetings: 1996 – present

Other

Southern California Wound Repair Symposium yearly from inception: 2001-present
California Tissue Engineering Meeting yearly from inception: 2002-present

Southern California Bioengineering: 2002 - present

Other Activities:

- 1993 Nominated Dr. Mina Bissell for the ASCB Women in Cell Biology senior award. She was selected to be the recipient.
- 1998 Nominated Prof. H. Hanafusa for the ASCB Women in Cell Biology senior award.
- 1999 Nominated Dr. Mina Bissell for the AACR Clowes Memorial Award. She was selected to be the recipient.
- 1999 Nominated Professor P. Talbot for the Chancellor's Award for Mentoring of Undergraduate Research. She was selected to be the recipient.
- 2002 Prepared nomination of Professor P. Talbot for Fellowship in the AAAS. She received the award.
- 2003 Prepared nomination of Professor N. Beckage for Fellowship in the AAAS. She received the award.
- 2010 Chair of the Awards committee that nominated Dr. Maggie Curras-Collazo for the campus Distinguished Teaching Award. She received the award.

Institutional Service

UC Davis

- 1984 - 1987 Student representative, Zoology Dept. committee to select TAs
- 1985 - 1987 Treasurer, Zoology Graduate Student Association
- 1985 - 1986 Student representative, Zoology Dept. Course Evaluation Committee
- 1987 Member, search committee for new faculty member in Cell Biology.
- 1987 Student representative, Zoology Department Fellowship Committee.

UC Riverside

- 1993 - 2000 Thesis Committees for MA, MS and PhD students in Biology.
- 1993-present Graduate group in Biomedical Sciences
- 1993 - 2004 Graduate group in Environmental Toxicology
- 1994 - 1999 Electron Microscopy Committee, Department of Biology
- 1994 Reorganization Committee, Department of Biology.
- 1994-present Oversight Committee, UC Riverside Central Facility for Advanced Microscopy and Microanalysis
- 1994 - 1996 Admissions Committee for Environmental Toxicology Graduate Group
- 1994 - 1995 Search Committee for Molecular Biology position, Department of Biology
- 1995 - 1996 Diversity Initiative Task Group on Faculty Hiring, UC Riverside
- 1996-present Graduate group in Biochemistry and Molecular Biology, UC Riverside
- 1997-present Graduate group in Neuroscience

- 1996 Search Committee for the Administrative Analyst in the Biology Department.
- 1996 Recruitment Committee, Graduate Group in Biochem. and Molecular Biology.
- 1996 – 1997 Search Committee for Vascular Biology position; Division Biomedical Sciences.
- 1996 – 1999 Newell Committee, Department of Biology
- 1998 - 1999 UCR registration fee committee
- 1999 One of prime movers for establishment of a Department of Cell Biology at UCR
- 1999-present Graduate Group in Cell Molecular and Developmental Biology
- 1999 Session Chair at the 14th annual meeting of the GRU in Biochemistry and Molecular Biology.
- 1999 Participant in establishing institutional collaborations between UCR and the City of Hope.
- 2000 - 2001 Member, Search Committee for Neuroscience faculty position.
- 2001 -2002 UCR registration fee committee
- 2002 Chair of the College Committee to revise the Cell Molecular and Developmental Biology undergraduate track.
- 2002 Member, Search Committee to hire new Campus Librarian.
- 2002 Member, committee representing UCR to the UC Presidential Summit on Gender Equity.
- 2002 - 2003 Member, College Committee in Charge of Undergraduate Teaching in the Biological Sciences
- 2002 - 2003 Chair, CBNS Departmental Curriculum Committee
- 2002 - 2003 Member, CBNS Departmental Executive Committee
- 2002 - 2003 Member, Curriculum and Policy Committee of the Graduate Program in Biochemistry and Molecular Biology.
- 2002 - 2003 Member, Committee on Committees (COC) of Academic Senate (elected office).
- 2003 - 2004 Chair, Committee on Committees (COC)
- 2003 - 2004 UCR Campus representative to UCOC
- 2003 - 2004 Representative, Medical Biology Track of the Biological Sciences Major to the Committee in Charge of Undergraduate Teaching in the Biological Sciences.
- 2003 Participant, Chancellor's Summit on Student Enrollment.
- 2004-2006 Chair of the Riverside Division of the Academic Senate (elected office).
- 2004-2006 Riverside representative on the Academic Council of the Academic Senate.
- 2004-2006 Member of all Campus Leadership committees as a consequence of being Chair of the Riverside Division.
- 2006-2007 Member of the Departmental Instructional Activities committee
- 2006-2007 Member of the Departmental Committee on Academic Activities
- 2006 – 2007 Member, Search Committee for Director of the Health Sciences Institute
- 2007 Member of the Executive Committee of the College for Natural and Agricultural Sciences

- 2007 Provided advice to President and Regents of UC on RE-89 concerning acceptance of funding by UC from tobacco companies
- 2007-2009 Member of the Global Health UC wide Initiative and Member of the sub-committee on the Global Health Institute in Tanzania
- 2007-2008 Beckman Mentor, College of CNAS, for mentoring undergraduates in research
- 2007-2008 Member of the Presidential Committee to chose the new Chancellor for UCR
- 2007-2008 On Sabbatical leave at Stanford University
- 2007-2010 Member, UCR Senate Faculty Welfare Committee
- 2008-2009 Chair of the Departmental Academic Planning Committee.
- 2008-2009 Member of the Departmental Executive Committee
- 2008-2010 Member of the Senate Executive Committee
- 2008-2010 Junior/Senior Representative of the Faculty to the Statewide Assembly
- 2010-2012 Chair of the Committee on Diversity and Equal Opportunity
- 2010- Member of the Inaugural Board of Directors of the UC School of Global Health

PAST AND CURRENT GRADUATE STUDENTS

| | | |
|-------------------|-------------|--|
| Shuyan Lu | MS 2000 | At Pfizer, San Diego (Team leader) |
| Jo Ellen Feugate | PhD 2001 | Now doing internal medicine fellowship at the University of Arizona. |
| Qi Jing Li | PhD 2002 | Assistant Professor at Duke University and considered as one of the up and coming scientists to watch for in the field of immunology |
| Lina Wong | PhD 2004 | At Allergen, Orange County (Group Leader) |
| Lei Zheng | PhD 2006 | Now postdoc at Harvard |
| Jenny Jau | MS 2006 | Technician at Harvard |
| Robin Sielaff | MS 2005 | Now studying homeopathic medicine |
| Chonze Ma | PhD 2008 | Going back to China to be an MD |
| Melissa Petreaca | PhD 2008 | Currently in my laboratory as a postdoc |
| Hongwei Yuan | PhD 2008 | Currently in my laboratory as a postdoc |
| Allen Wang | PhD Current | |
| Darcie McClelland | PhD Current | |
| Michael Francos | PhD Current | |

POSTDOCTORAL FELLOWS

| | | |
|--------------------|-----------|--|
| Sucheta Vaingankar | 1994-1998 | At the VA Hospital in San Diego |
| Goar Melkonian | 1999-2001 | At UC Irvine |
| Min Yao | 2002-2005 | Now at Ruijin Hospital, JiaoTong University Medical College, Shanghai Hospital |
| QiJing Li | 2004 | Now Assistant Professor at Duke University |
| Lina Wong | 2005 | Now at Allergen as a senior scientist |
| Lei Zheng | 2006 | Now Postdoc at Harvard |
| <u>Yan</u> Liu | 2006-2008 | Now a burn surgeon at Ruijin Hospital, JiaoTong University Medical College, Shanghai |
| Melissa Petreaca | Current | |
| Hongwei Yuan | Current | |

VISITORS

| | | |
|-----------------|-------------------|---|
| Miriam Altstein | Visitor 2001-2002 | Visiting Professor from Vulcani Institute in Israel |
| Qiuyan Dai | Visitor 2006-2007 | MD Shanghai from First Medical Hospital |
| Ana Sofia Rocha | Visitor 2010 | Visiting Scientist for the Univ. of Porto, Portugal |
| Yan Liu | Visitor 2010-2011 | MD Shanghai, Ruijin Hospital, JiaoTong University Medical College |

UNDERGRADUATES

Many through the years

SOCIETY/GROUP AFFILIATIONS

American Association for the Advancement of Science
American Society for Cell Biology

International Cytokine Society
Southern California Society for Microscopy and Microanalysis.
California Tissue Engineering Meeting
Southern California Wound Repair Symposium yearly from inception
California Tissue Engineering Meeting yearly from inception
Southern California Bioengineering
Women for Cell Biology
Wound Healing Society
Leukocyte Biology
Cytokine Biology

LANGUAGES

English: Speak, read, write fluently
Portuguese: Speak, read, write fluently (native language)
French: Speak, read
Spanish: Read

INVITED SEMINARS/TALKS**1987**

- "Origin of the dorsal surface of the neural tube by progressive delamination of epidermal ectoderm and neuroepithelium: Implications for neurulation and neural tube defects." *Stanford University Medical School*, October.
- "Ultrastructural and immunolabeling studies of the neural crest: Processes leading to neural crest cell emigration." *Department of Zoology, University of California, Davis*, December.
- "Origin of the dorsal surface of the neural tube by progressive delamination of epidermal ectoderm and neuroepithelium: Implications for neurulation and neural tube defects." *Laboratory of Cell Biology, Lawrence Berkeley Laboratory*, December.

1988

- "Formation of the dorsal surface of the neural tube by delamination of epidermal ectoderm from neuroepithelium." *Tonji Medical University, Wuhan, Hubei, Peoples Republic of China*, May.
- "Formation of the dorsal surface of the neural tube by delamination of epidermal ectoderm from neuroepithelium." *Department of Cell Biology, Wuhan University, Wuhan, Hubei, Peoples Republic of China*, June.

1989

- "Wounding, RSV-tumorigenicity and expression of the 9E3 (CEF-4) gene." *Division of Cell and Molecular Biology, Lawrence Berkeley Laboratory*, February.
- "Localization of a member of the *gro* gene family in avian tissues: Expression is absent in RSV-induced tumors but is stimulated by wounding." *Department of Zoology, University of California, Davis*, November.

1991

- "The avian *gro* gene, 9E3/CEF4, its expression is cell cycle phase-dependent and is stimulated by wounding." *Division of Cell and Molecular Biology, Lawrence Berkeley Laboratory*, May.

1992

- "The 9E3/CEF4 gene product: A small inducible cytokine implicated in growth regulation and wound healing." *Dana-Farber Cancer Institute/ Harvard Medical School*, June.
- "The 9E3 gene (chicken *gro*): An early response gene that may be involved in growth regulation and wound repair." *Department of Cell Biology, New York University Medical School*, June.

"The 9E3 gene product: A small inducible cytokine implicated in growth regulation and wound healing." *Rockefeller University, New York, July.*

1993

"*Gro* genes and wound repair: Overexpression of the 9E3/CEF4 and its relationship to cell growth and wound healing." *Progress in Basic Research of Wound Repair and its Application to clinical Management of Problematic Wounds -- UCLA Symposium at Breckenridge, CO, March.*

"Biochemical characteristics of the 9E3 protein." *Department of Biology, University of California, Riverside, November.*

1994

"The role of inflammation in the development of tumors." *Department of Biology, University of California, Riverside, October.*

1995

"The 9E3/CEF4 chemokine and its role(s) in wound healing." *Department of Human Anatomy, Oxford, UK, June.*

"Stimulation of the 9E3/CEF4 gene by thrombin: Mechanisms of signal transduction." *Department of Cell Biology, University of Manchester, UK, June.*

"The use of animals in biomedical research." *American Association for Laboratory Animal Science seminar series, University of California, Riverside, October.*

1996

"The biology of wound healing." *Contemporary UCR Women in Science, UCR, March.*

"A potential molecular connection between wound healing and tumor development." *International Oncology Meetings Island of Kos, Greece. 3-5 October.*

1997

"From wounds to tumors: a potential molecular connection". *MARC Program Special Seminar. Department of Biological Sciences, California State University, Fullerton, CA. March.*

"Implications for the role of chemokines in wound healing and tumor development: functions of the 9e3/cef4 gene and its product." *Department of Anatomy, Virginia College of Medicine, Richmond, VA. May.*

"Functions of the 9E3/CEF4 gene and its product: Roles in wound healing and tumor development." *Dorothy and Lewis Rosenstiel Department of Biochemistry, The Mount Sinai Medical Center, New York., NY. May.*

"The cCAF chemokine: Mechanisms of stimulation by thrombin and implications for wound healing and atherogenesis". *Department of Biomedical Sciences, UC Riverside*. December.

1998

"Multiple functions of the cCAF chemokine: Implications for wound healing". *Centre for Cardiopulmonary Biochemistry & Respiratory Medicine, UCLMS Rayne Institute, London, UK*. January.

"Multiple functions of the cCAF chemokine: Implications for wound healing and disease". *Human Genome Sciences*. Washington, DC. January.

"Multiple functions of the cCAF chemokine: Implications for wound healing, tumor development and atherogenesis". *LBL Division of Life Sciences, Cell and Molecular Biology*. Berkeley, CA. March.

"Effects of an avian chemokine on the proliferation of cells important in granulation tissue formation and re-epithelialization". *Wound Healing Society, Salt Lake City, UT*. June.

1999

"Stimulation of cCAF by thrombin occurs via the MAP kinases MEK1/ERK2 with subsequent activation of the ELK1 transcription factor. Keystone Meeting on Chemokines and Chemokine Receptors." *Keystone Symposium on Chemokines and their Receptors*, January.

"Multiple functions of the cCAF chemokine: Implications for wound healing and disease". *University of California Davis, Davis, CA*. May.

"Multiple functions of the cCAF chemokine: Implications for wound healing and disease". *Vanderbilt University, Nashville, TN*. May.

"Mechanisms of thrombin-induced cCAF expression: Implications for wound healing". *LCRC/DBS/NCI, NIH*. July.

"Mechanisms of thrombin-induced cCAF expression: Implications for wound healing". *Laboratory of Molecular Immunoregulation, NCI, NIH*. July.

"Chemokines as orchestrators of cellular response to trauma" *Graduate Group in Biochemistry and Molecular Biology, University of California, Riverside*. November.

2000

"Multiple roles of a CXC chemokine in wound healing involve different domains of the molecule". Pre-meeting Sub-group Symposium on The Cell Biology of Chemokines in Host Defense, Wound Healing and Disease, Annual Meeting for ASCB, December.

2001

"Chemokines: Their diverse biological functions make them potential orchestrators of healing responses". *UCSF*. March.

"Looking beyond chemokine function in Host Defense and Inflammation". Baxter Research Division in Wound Healing. Duarte CA.. March.

"The CXC Chemokine cCAF stimulates differentiation of fibroblasts into myofibroblasts independently of TGF β ". Short talk. Wound Healing Society Annual Meeting. May.

"Chemokines and their roles in wound repair" Department of Biology and Chemistry, *Azusa Pacific University*. March .

"CXC chemokines: Stimulation of differentiation of fibroblasts into myofibroblasts and acceleration of wound closure". Wound Repair Symposium of the Southern California area. March.

"Chemokines as major players in basic mechanisms of wound healing and tumorigenesis". Arkansas Cancer Research Center . Little Rock, Arkansas. May.

"Molecular mechanisms by which IL-8 stimulates initiation of angiogenesis". Cell Biology of Angiogenesis Mini Symposium. ASCB Annual Meeting. December.

2002

"Chemokines as factors in processes critical for proper healing". Division of Biomedical Sciences. University of California, Riverside. February.

"Molecular mechanisms by which IL-8 initiates angiogenesis". Wound Repair Symposium of the Southern California Area. March.

"Looking Beyond Chemokine function in host defense and inflammation". Loma Linda University . Center for genetics and Molecular Biology. April.

"Chemokines: Their diverse biological functions make them potential orchestrators of healing responses". Chemocentryx. *San Carlos, CA*. May.

"Mechanisms of chemokine function in wound repair". University of Geneva School of Medicine. Geneva, Switzerland. July.

"Chemokine functions: Looking beyond host defense and inflammation". Serono, Geneva, Switzerland. July.

"Looking beyond the functions of chemokines in host defense and inflammation". Gulbenkian Science Institute . Oeiras, Portugal. July.

"Chemokines: Their diverse biological functions make them potential orchestrators of healing responses". In the Congenital Giant Nevus: Treatment and Research" Symposium at the International Pigment Cell Conference. Amsterdam, Holland. September.

2003

Speaker at the Keystone Meeting on chemokines and Chemokine Receptors. “N- and C-terminal peptides of IL8/CXCL8 and homologous chemokines are independent ligands for CXCR1-type receptors”. January.

Main speaker at the Gordon Conference on Vascular Biology. Speaking on “Inflammation-induced Angiogenesis”. February. Ventura, CA January.

Southern California Wound Repair Symposium. “Exposure to Low/Moderate Levels of “First-Hand” Smoke Leads to an Increase in Survival of Cells Critical for Proper Healing”. March.

Wound Healing Society Annual Meeting. “Functions of IL-8 in inflammation-induced angiogenesis during wound healing”. May.

National Cancer Institute, NIH. “CXCL8 chemokines: a tale of many functions”. Laboratory of Immunoregulation . NCI, Frederick. Maryland. May.

Necker Hospital, Paris. “Chemokines: Their diverse biological functions make them potential orchestrators of healing responses”. June.

2004

TargeGen, “Functions of chemokines in wound healing and tumor development”. January

Honors Program UC Riverside. “Success is not a destination but a continuous journey”. March.

UCRiverside, mSTART program. Engineering Human “Skin” Using Primary Adult Cells. April.

Wound Healing Society Annual Meeting. “Inflammation-induced angiogenesis: potential roles of IL-8 and VEGF”. May.

Wound Healing Society Annual Meeting. “Molecular Mechanisms of Thrombin-Induced Interleukin-8 Expression in Human Macrophages”. May. Talk delivered by student.

California State University, Fullerton. “Improving impaired healing”. May.

China First Hospital, Shanghai. “Chemokine Stimulation by Stress-Inducing Agents”, June.

China First Hospital, Shanghai. “Chemokines, Inflammation, Angiogenesis and Wound Healing”, June.

Vanderbilt University. “Chemokines and their multiple functions in wound healing”. July.

City of Hope, Duarte, CA “Chemokines and their multiple functions in wound healing”. October.

California Tissue Engineering. “Engineering a Human Skin with Adult Primary Cells”. October.

2005

- UC joint meeting of the Academic Council and the Council of Vice-Chancellors. “Strategies to Improve Faculty Diversity”, March. Co-presenter
- Wound Healing Society Annual Meeting. “Signal Transduction Mechanisms of IL-8-Induced Endothelial Permeability”, May. Presented by a student.
- Wound Healing Society Annual Meeting. “Activation of Sterol Regulatory Element-Binding Proteins (SREBPs) is Critical in IL-8-Induced Angiogenesis”, May. Presented by a postdoc.
- Wound Healing Society Annual Meeting. “Dissecting the Effects of CS components on Delayed Wound Healing”, May. Presented by a student.
- UC Riverside, mSTART program. “Inflammation-induced angiogenesis and wound healing: collaboration of IL-8 and VEGF”. May.
- Honors Program UC Riverside. “A journey in the life of chemokines”. June.
- Wound Repair and Regeneration Gordon Conference. “Inflammation-induced angiogenesis and wound healing: collaboration of IL-8 and VEGF”. June.
- National Institutes of Health. “Chemokines, inflammation and angiogenesis in wound healing: roles of IL-8”. June.

2006

- Wound Healing Society Annual Meeting. “The Origin of α SMA Expressing Periendothelial Cells in Microvessels Derived from Human Microvascular Endothelial Cells”, May. Presented by a student.
- Wound Healing Society Annual Meeting. “The Role of Vascular Endothelial Growth Factor Receptor-2 Transactivation in Interleukin-8 Induced Endothelial Cell Permeability”, May. Presented by a student.
- Wound Healing Society Annual Meeting. “A Cre/Loxp-Based hCXCR1 Transgenic Mouse Line With Color-Switching Fluorescent and Bioluminescent Tracers to Study the Functions of Il-8 *In Vivo*”, May. Presented by a student.
- Wound Healing Society Annual Meeting. “Interleukin-8-Induced Angiogenesis Requires Activation of SREBPs, HMGCoA and RhoA ”, May. Presented by me.
- UCRiverside, Biochemistry Seminar Series. A Novel Function for VEGF: A “Switch” in Resolution of Inflammation. October 2006.

2007

- Wound Healing Society Annual Meeting. Cell and molecular mechanisms of insulin-induced acceleration of healing. April 2007 in Tampa Florida.

Institut de Génétique Moléculaire de Montpellier au CNRS. Inflammation & Angiogenesis in Wound Healing: Cooperation of IL-8 and VEGF. June 2007. Montpellier, France.

Gordon Conference in Wound Repair and Regeneration. A Novel Function of VEGF During Wound Repair. June 2007. Colby Sawyer.

Davis Heart and Lung Research Institute, Laboratory of Molecular Medicine.

Odessa National Medical Institute. Cell and Molecular Mechanisms of Wound Repair. September 2007. Odessa., Ukraine

Dept. of Biol. & Interdisciplinary Center for Scientific and Technological Innovation, Univ of Milano, Milano, Italy. Angiogenesis and Resolution of Inflammation During Healing and Repair. Unable to present due to eye injury and inability to travel. September, 2007. Milano, Italy

2008

Division of Plastic Surgery and Reconstruction (G. Gurtner section). “Cytokine Crosstalk in Initiation of Angiogenesis and in Resolution of Inflammation”. January 2008, Stanford University

Division of Plastic Surgery and Reconstruction (G. Gurtner section). “Insulin and re-epithelialization during wound healing”. March 2008. March 2008, Stanford University.

Wuhan University Medical School. “Crosstalk between Growth Factors and Cytokines in Angiogenesis and Resolution of Inflammation”. June 2008. China

Tongji Medical College. “Cell and Molecular Mechanisms of IL-8-Induced Angiogenesis” Wuhan, China.

Northwest Univ, Xi’an. “Crosstalk between Growth Factors and Cytokines in Angiogenesis and Resolution of Inflammation”. June 2008. China

Biophysics Institute of the Chinese National Academy of Sciences, Bioengineering Center. “Cytokine Crosstalk in Initiation of Angiogenesis and in Resolution of Inflammation” June 2008, Beijing, China.

Tsinghua University. “Cell and Molecular mechanisms of Resolution of Inflammation”. June 2008, Beijing, China.

Department of Bioengineering (A. Barron section). “Wound Healing and Tissue/Bio Engineering”. September 2008, Stanford University.

Division of Plastic Surgery and Reconstruction (G. Gurtner section). “Isolation and Characterization of Human PBMCs for Studies of Chronic Wounds”. September 2008, Stanford University.

2009

Seoul National University. Korea, “Wound Healing and Tissue/Bio Engineering”. January, 2009, Korea

Gordon Conference on Tissue Repair and Regeneration. “*Chemokines: Potential Orchestrators of Wound Healing*”. New London New Hamshir, June 2009, USA

Tobacco-Related Disease Research Program Regional Meeting. “*Cellular and Molecular Mechanisms of Cigarette Smoke-Induced Inhibition of Healing*”, September 2009, Riverside

Duke University, Department of Immunology. “*Cytokine/chemokine Crosstalk in Initiation of angiogenesis and in Resolution of Inflammation*”. September 2009, Raleigh NC.

Universita’ degli Studi di Milano, Facolta’ di Scienze Mat. Fis. Nat. Programma per l’Internazionalizzazione. “*Wound Healing and Tissue/Bio Engineering*”. October 2009, Milan, Italy.

Universita’ degli Studi di Milano, Facolta’ di Scienze Mat. Fis. Nat. Programma per l’Internazionalizzazione. “*Basic Mechanisms of Healing and the Interplay Between Chemokines and Growth Factors*”. October 2009, Milan, Italy.

Universita’ degli Studi di Milano, Facolta’ di Scienze Mat. Fis. Nat. Programma per l’Internazionalizzazione. “*Effects of Environmental Toxins from Tobacco on Healing*”. October 2009, Milan, Italy.

University of California, Department Biochemistry. “Cell and Molecular Mechanisms of Cytokine/ chemokine cross talk during wound healing: Roles of IL-8 and VEGF”. November 2009, Riverside.

2010

UC Lawrence Berkeley National Laboratory. “From Cancer to Healing to Cancer”. May 8th, 2010

Medical school, University of Porto, Portugal. “Angiogenesis and inflammation“. June 28th, 2010

TEACHING EXPERIENCE

UC Davis, Department of Zoology

Teaching Assistant : General Zoology Laboratory, Fall, 1983
Embryology Laboratory, Fall, 1982; Spring, 1983; Fall, 1984.

Guest Lecturer: Neural crest cell development: Implications in neural tube closure and *spina bifida* formation. Zoology 100, Embryology, Fall, 1987.

Lawrence Berkeley Laboratory, Cell and Molecular Biology Laboratory

Supervisor: Undergraduate research project, 1988-89.

Supervisor: MS thesis research project, 1989-90.

Advisor: Student attending the Science, Research and Engineering Program at Lawrence Berkeley Laboratory, 1993.

UC Riverside, Department of Biology

1993-94

Classes:

Instructor: Graduate Seminar Course in "Regulation of gene expression during development". Fall 1993.

Instructor: Advanced Course in Cell Biology (~120 students). Winter 1994.

Organizer and Host: General Colloquia in Biology. Spring 1994.

Guest Lecture: Mechanisms involved in wound healing. Entry level graduate Course in Cell, Molecular and Developmental Biology, Fall 1993.

Guest Lecture: Core graduate course in Advances in Cell, Molecular and Developmental Biology. Fall 1993.

Undergraduate Advising:

Research Supervision: Two undergraduate-student research projects. One student, T. Kelly, produced data that we have now published as part of Pub. #26. He graduated in 1994 and was admitted to medical school.

General Advising (2hrs/week in the undergraduate advising office).

1994-95

Classes:

Instructor: Graduate Seminar Course in "Molecular aspects of Cell-ECM interactions". Fall 1994.

Instructor: Entry Level Course in Cell and Molecular Biology (~500 students). Winter 1995.

Instructor: Advanced Course in Cell Biology (~120 students). Spring 1995.

Guest lecture: Graduate course in Advances in Cell, Molecular and Developmental Biology. Fall 1994.

Guest Lecture: Mechanisms involved in wound healing. Core graduate Course in Cell, Molecular and Developmental Biology, Fall 1994.

Organizer and Host: General Colloquia in Biology. Spring 1995.

Undergraduate Advising:

Research Supervision: Three undergraduates. One of them, Scott Burkett, received a President's Undergraduate Research Scholarship to work on the purification of cCAF during the year. He graduated *summa cum laude* in 1995. Another, William McChesney worked in the laboratory for the year and received a minigrant during the Spring quarter of his senior year to learn molecular cloning. He also graduated in 1995 and now has a job in Biotechnology.

General Advising (2hrs/week in the undergraduate advising office).

Graduate Advising:

Dissertation Advisor: One PhD student working on "The functions of cCAF during formation of the granulation tissue of wounds".

Oral Examination Committee: One student from the Environment Toxicology Graduate Program, Spring, 1995.

Postdoctoral Advising: One fellow.

1995-96

Classes:

Instructor: Graduate Seminar Course in "Programmed Cell Death in Development, Healing, and Disease". Spring 1996.

Instructor: Entry Level Course in Cell and Molecular Biology (~500 students). Winter 1996.

Instructor: Advanced Course in Cell Biology (~120 students). Spring 1996.

Organizer and Host: General Colloquia in Biology. Spring 1996.

Undergraduate Advising:

Research Supervision: Three undergraduates. One of them, Ronald Zhang, received a Senior Undergraduate Fellowship for Winter and Spring quarters of his Senior year (1996) to study the pathway of secretion of cCAF. Donna Ni, a Sophomore in Biology, learned molecular and cellular techniques. During the Spring Quarter, a senior in the Biology Major, Christina Wilkins took independent studies with me; she researched and wrote a review paper on "Insulin signal transduction pathways".

General Advising (2hrs/week in the undergraduate advising office).

Graduate Advising:

Dissertation Advisor: One PhD student working on "The functions of cCAF during formation of the granulation tissue of wounds".

Oral Examination Committee: One student, Department of Biology, Fall 1995.

Dissertation Committee: One student, Department of Biology, 1995-

Postdoctoral Advising: One fellow.

1996-97

Classes:

Instructor: Advanced Cell Biology (~120 students). Spring 1997.

Instructor Graduate Seminar Course: "Chemokines in Wound Healing and Disease I". Spring 1997.

Undergraduate Advising:

Research Supervision: Two undergraduates. Donna Ni, a Junior in Biology, learned molecular and cellular biology techniques; Ghassan Amish, a Senior in Biology, took independent studies with me during the Fall Quarter and researched and wrote a review paper on "Chemokines their receptors, and signal transduction mechanisms". In the Winter Quarter he took again independent studies from me and wrote a paper on "phorbol esters and signal transduction". I also had an honors High School student researching the topic of retrovirus in human cancer.

General Advising (2hrs/week in the undergraduate advising office).

Graduate Advising:

Dissertation Advisor: Two PhD students. One working on "The functions of cCAF during formation of the granulation tissue of wounds", the other on the "Transcriptional activation of the 9E3 and MCP1 genes by thrombin and stress-inducing stimuli".

Oral Examination Committee: One student from the Environmental Toxicology Graduate Program, Fall, 1996.

Dissertation Committee: One student, Department of Biology, 1995-

Postdoctoral Advising: Two fellows, and co-advisor of another.

1997-98

Classes:

Instructor: Graduate Seminar Course in "Chemokines in Wound Healing and Disease II". Spring 1998.

Co-Instructor (50%): Entry Level Course in Cell and Molecular (~500 students). Winter 1998.

Instructor: Advanced Course in Cell Biology (~120 students). Spring 1998.

Organizer and Host: General Colloquia in Biology. Spring 1998.

Undergraduate Advising:

Research Supervision: Four undergraduates: Harry Miguel Green, Junior in Biology, worked on the effects of cigarette smoke on the stimulation of chemokines. Jonathan Lin, Sophomore in Biomedical Sciences, worked on determining the pattern of expression of the 9E3 gene and cCAF production in embryonic tissues and organs of newly-hatched chicks. Jennifer Fisher, Sophomore in Biology, maintained laboratory stock solutions, learned gel electrophoresis and washed lab dishes. Willy Wong, Freshman in Biomedical Sciences, learned basic molecular techniques before embarking on a project of his own.

General Advising (2hrs/week in the undergraduate advising office for 1/2 of each quarter).

Graduate Advising:

Advisory Committees: In addition to my own students, four additional graduate students in the Department of Biology.

Dissertation Advisor: Two PhD students. One working on "The functions of cCAF during formation of the granulation tissue of wounds", the other on the "Transcriptional activation of the 9E3/cCAF and MCP1 genes by thrombin and stress-inducing agents".

Dissertation Committee: One student, Department of Biology, 1995-

Masters Thesis Committee: Two students, Department of Biology, 1997-99 and 1998.

Postdoctoral Advising: One fellow and co-advisor of another

1998-99

Classes:

Guest Lecturer for one week "On general mechanisms of signal transduction" in the Core Graduate Course in Cell, Molecular and Developmental Biology, Fall 1999.

Instructor for one week "The role of chemokines in disease" in the Core Graduate Course in Molecular Basis of Disease, Spring 1999.

Instructor: Graduate Seminar Course in "Molecular Mechanisms of Angiogenesis". Spring 1999.

Instructor: Advanced Course in Cell Biology (~130 students). Spring 1999.

Undergraduate Advising:

Research Supervision: Four undergraduates: Harry Miguel Green, Senior Honors Student in Biology worked on the effects of cigarette smoke on the stimulation of chemokines. Harry

graduated with many honors including outstanding male student of the Science College and the Chancellor's award for outstanding research by an undergraduate. Harry received a 4-year fellowship to the California Institute of Technology and received his PhD in Immunology in 2005. Jonathan Lin, Junior Honors Student in Biomedical Sciences determined the pattern of expression of the 9E3 gene and cCAF production in embryonic tissues and organs of newly-hatched chicks. Jennifer Fisher, Junior in Biology, maintained laboratory stock solutions, learned tissue culture and washed lab dishes. Willy Wong, Sophomore in Biomedical Sciences, worked on obtaining 5' deletion of the MCP-1 promoter for transcription activation studies and examined the systematic presence of consensus elements for the binding of transcription factors to the promoters of chemokine genes.

General Advising (2hrs/week in the undergraduate advising office for 1/2 of each quarter).

Graduate Advising:

Advisory Committees: In addition to my own students, five other graduate students in the Department of Biology.

Dissertation Advisor: Three PhD students. One working on "The functions of cCAF during formation of the granulation tissue of wounds", another on the "Transcriptional activation of the 9E3/cCAF and MCP-1 genes by thrombin and stress-inducing agents" and the third on "The role of 9E3/cCAF in tumor development".

Masters Thesis Committee: Two students, Department of Biology, 1997-99 and 1998.

Dissertation Committee: One student, Department of Biology, 1995-1999.

Orals Dissertation Committee Chair: One student, Department of Biology, 1999-

Postdoctoral Advising: Co-advisor of one fellow.

1999-00

Classes:

Instructor, Biology 111. Cell Biology (~130 students). Fall 1999.

On Sabbatical Leave the remainder of the year at NCI, Frederick, MD.

Undergraduate Advising:

Research Supervision: Four undergraduates during the summer: Harry Miguel Green, a first year graduate student at Caltech, continued to work to complete his projects so that they could be written and submitted for publication. Jonathan Lin, Junior Honors Student in Biomedical Sciences, was accepted to the UCR/UCLA MD program but continued his studies during the summer. Jennifer Fisher, Senior in Biology, continued to maintain laboratory stock solutions and learn techniques as she prepared to take the exam for entry into Veterinary School. William Wong, Junior in Biomedical Sciences, came back to the lab to continue his project after he took the MCAT exams. Allan Wong, Sophomore at Harvard University, spent the summer as a volunteer in my lab learning molecular cloning techniques.

Graduate Advising:

Advisory Committees: In addition to my own students, five additional graduate students in the Department of Biology.

Dissertation Advisor: Four PhD students. One working on "The functions of cCAF during formation of the granulation tissue of wounds", another on the "Transcriptional activation of the 9E3/cCAF and MCP-1 genes by thrombin and various toxicants", the third on "The role

of 9E3/cCAF in tumor development" and the fourth on "The effects of cigarette smoke on cell death".

Masters Thesis Committee: Two students, Department of Biology, 1997-99 and 1998.

Dissertation PhD Committee: One student, Department of Biology, 1998-

Postdoctoral Advising: Co-advisor of one fellow.

2000-01

Classes:

Guest Lecturer for one week "On general mechanisms of signal transduction" in the Core Graduate Course in Cell, Molecular and Developmental Biology, Fall 2000.

Co-Instructor (50%): Entry Level Course in Cell and Molecular (~250 students). Winter 2000.

Instructor, Biology 111. Cell Biology (~130 students). Spring 2001.

Instructor for one week "The role of chemokines in disease" in the Core Graduate Course in Molecular Basis of Disease, Spring 2000.

Instructor: Graduate Seminar Course in "Molecular Mechanisms of Angiogenesis". Spring 2000.

Undergraduate Advising:

Research Supervision: William Wong, senior in Environmental Sciences, won a Univ. of California President's Fellowship for his senior year to perform research on the effects of cigarette smoke on the activation of MCP-1 expression in aortic endothelial cells.

Graduate Advising:

Advisory Committees: In addition to my own students, five additional graduate students in the Department of Biology.

Dissertation Advisor: Four PhD students. One working on "The functions of cCAF during formation of the granulation tissue of wounds", another on the "Transcriptional activation of the 9E3/cCAF and MCP-1 genes by thrombin and various toxicants", the third on "The role of 9E3/cCAF in tumor development" and the fourth on "The effects of cigarette smoke on cell death".

Masters Thesis Committee: Two students, Department of Biology, 1997-99 and 1998.

Dissertation PhD Committee: One student, Department of Biology, 1998-

Postdoctoral Advising: Co-advisor of one fellow.

2001-02

Classes:

Organizer: Cell and Molecular Biology Seminar Series, Fall quarter 2001.

Instructor: Graduate Seminar Course in "Molecular Mechanisms of Angiogenesis". Fall 2001.

Instructor: Graduate Seminar Course in "Stem cells and their potential in ameliorating disease". Spring 2002.

Instructor for one week "On mechanisms of chemokine function in healing and tumorigenesis" in the Biomedical Sciences course on Molecular Basis of Disease. Spring 2002.

Instructor for one week "Developmental mechanisms of angiogenesis" in the Core Graduate Course in Cell, Molecular and Developmental Biology, Spring 2002.

Undergraduate Advising:

Research Supervision: Joseph Manlolo, started in my laboratory as a junior from the Biological Sciences Program, was a MARCU fellow who worked on "Mapping the expression pattern of human IL-8 in normal and tumor tissues". Erick Martinez, another MARCU fellow, also from the Biological Sciences Program, worked with a postdoc on a well defined project in the context of inflammation-induced angiogenesis.

Graduate Advising:

Advisory Committees: In addition to my own students, two additional graduate students in the graduate group of Cell Molecular and Developmental Biology.

Dissertation Advisor: Four PhD students. Two working on "The role of chemokines in wound healing" and two on "The effects of cigarette smoke on chemokine expression and function".

Dissertation PhD Committee: Several students in the Graduate Program in Cell, Molecular, and Developmental Biology, 1998-present

Postdoctoral Advising: Advisor of two fellows.

2002-03

Classes:

Organizer: Cell and Molecular Biology Seminar Series, Fall quarter 2002.

Co-Instructor (50%): Entry Level Course in Cell and Molecular (570 students). Winter 2003.

Instructor, Biology 168. Introduction to Developmental Biology (~120 students). Spring 2003.

Undergraduate Advising:

Research Supervision: Joseph Manlolo, as a senior won a Univ. of California Riverside Chancellor's Fellowship to continue his research on "Mapping the expression pattern of human IL-8 in normal and tumor tissues". Erick Martinez, continued working with the postdoc on the project in the context of inflammation-induced angiogenesis.

Graduate Advising:

Advisory Committees: In addition to my own students, several additional graduate students in the graduate group of Cell Molecular and Developmental Biology .

Dissertation Advisor: Five PhD students. Two working on "The role of chemokines in wound healing" and three on "The effects of cigarette smoke on chemokine expression and function".

Dissertation PhD Committee: Several students in the Graduate Program in Cell, Molecular, and Developmental Biology, 1998-present

Postdoctoral Advising: Advisor of one fellow.

1 international visitor

2003-04

Classes:

Co-Instructor (50%): Entry Level Course in Cell and Molecular (570 students). Winter 2004.
Graduate Seminar in Molecular Cell Biology (CMDB 281/Bioch 230, 12 students) “Molecular mechanisms of Angiogenesis: Implications for wound repair, inflammatory diseases and cancer”.

Undergraduate Advising:

Research Supervision: During this year I had in my laboratory five undergraduates. **Nicholas Huynh**, from the Biological Sciences Program, started working on a modeling project entitled “Computational Modeling of the Three-Dimensional Structure of CXCR1” This project is a collaboration I have with a colleague in the College of Engineering. **Shelley Yee**, also from the Biological Sciences Program, worked on the localization of cIL-8 in the various adult and embryonic tissues. **Moni Bhattacharya**, from the Biochemistry Program worked on helping the screening of transgenic mice for our cigarette smoke and atherosclerosis project. **Mohammad Zafarani**, from the Biology Program, worked together with Moni on screening of the mice. He won a Dean’s fellowship for the summer. **Justin Britton**, was a MARCU* pre-trainee during the summer and worked with a postdoc on the stimulation of production of α SMA by human primary fibroblasts when stimulated by human IL-8. **Evita Limon**, also a MARCU * pre-trainee during the summer worked with a postdoc on the immune response of skin to nanotubes.

Graduate Advising:

Advisory Committees: In addition to my own students, several additional graduate students in the graduate group of Cell Molecular and Developmental Biology.
Dissertation Advisor: Five PhD students. Two working on “The role of chemokines in wound healing” and three on "The effects of cigarette smoke on chemokine expression and function". One Masters student working on the role of chemokines in angiogenesis.
Dissertation PhD Committee: Several students in the Graduate Program in Cell, Molecular, and Developmental Biology, 1998-present

Postdoctoral Advising: Advisor of one fellow.
 1 international visitor

2004-05

Classes:

Co-Instructor (50%): Entry Level Course in Cell and Molecular (573 students). Winter 2005.
Co-Instructor (10%). Introduction to Developmental Biology (~30 students). Spring 2005.

Undergraduate Advising:

Research Supervision: During this year I continued to have in my laboratory the same five undergraduates. Nicholas Huynh, from the Biological Sciences Program, has continued his work on modeling project the Three-Dimensional Structure of CXCR1. He has now presented his results in two symposia and will be presenting his most recent results in the

Undergraduate Research Symposia at UCR in October. Shelley Yee, finished her work on the localization of cIL-8 in the various adult and embryonic tissues, has written a draft of the paper and is now in the Heider/UCLA medical school program. Moni Bhattacharya, continued to help on the screening of transgenic mice for our cigarette smoke and atherosclerosis project. Mohammad Zafarani, continued to work with Moni on screening of the mice and is now been accepted to enter Medical School. Justin Britton, became a trainee in the MARCU* program this summer and will continue to work with a postdoc on the stimulation of production of α SMA by human primary fibroblasts when stimulated by human IL-8. Evita Limon, also became a MARCU * trainee this summer and will continue to work with a postdoc on the immune response of skin to nanotubes.

Graduate Advising:

Advisory Committees: In addition to my own students, several additional graduate students in the graduate group of Cell Molecular and Developmental Biology .

Dissertation Advisor: Five PhD students. Two working on “The role of chemokines in wound healing” and three on "The effects of cigarette smoke on chemokine expression and function". One Masters students working on the role of chemokines in angiogenesis.

Dissertation PhD Committee: Several students in the Graduate Program in Cell, Molecular, and Developmental Biology, 1998-present

Postdoctoral Advising: Advisor of one fellow.

2005-06

Classes:

Co-Instructor (50%): Entry Level Course in Cell and Molecular (573 students). Winter 2006.

Co-Instructor (15%): Introduction to Developmental Biology (~60 students). Spring 2006.

Undergraduate Advising:

Research Supervision: Nicholas Huynh, from the Biological Sciences Program, just graduated and has finished writing a paper on modeling project the Three-Dimensional Structure of CXCR1 that we will be submitting soon. He has presented his results in two symposia and most recently results at the Undergraduate Research Symposia at UCR in October 2005. Justin Britton, was a trainee in the MARCU* program this past year and is now working with a graduate student on the effects of cigarette smoke on cornea healing. Evita Limon, also became a MARCU * trainee this past year, will continue the coming year to work with a graduate student on the immune response of skin to nanotubes. James Chen, is starting his research this past year by developing a project of his own on wound healing. He is finalizing his proposal and will initiate his work in the lab this coming year. David Santiago started in the lab this Spring and will be working with a postdoc on impaired healing related of atherogenesis. The other 3 undergraduates (Andre Alcon, Curtis Darling and Andrew Pham) started in the lab in the Spring quarter and have done a summer internship supported by the Dean of the Sciences College. They want to continue this coming year.

Graduate Advising:

Advisory Committees: In addition to my own students, several additional graduate students in the graduate group of Cell Molecular and Developmental Biology and Biomedical Sciences.
Dissertation Advisor: Five PhD students. Two working on “The role of chemokines in wound healing” and three on "The effects of cigarette smoke on chemokine expression and function". One Masters students working on the role of chemokines in angiogenesis.
Dissertation PhD Committee: Several students in the Graduate Program in Cell, Molecular, and Developmental Biology and Biomedical Sciences

Postdoctoral Advising: Advisor of two fellows.

2006-07

Classes:

Co-Instructor (50%): Entry Level Course in Cell and Molecular (573 students). Winter 2006.
Instructor in charge (50%). Introduction to Developmental Biology (80 students). Spring 2007.
Graduate Course (100%). Cell and Molecular Basis of Inflammation-Induced Disease. Spring 2007.

Undergraduate Advising:

Research Supervision: Justin Britton, was a trainee in the MARCU* program this past year and is now working with a graduate student on the effects of cigarette smoke on cornea healing. Evita Limon, also became a MARCU * trainee this past year, will continue the coming year to work with a graduate student on the immune response of skin to nanotubes. James Chen, spent the year developing a project of his own on wound healing. David Santiago started in the lab this Year and will be working with a postdoc on impaired healing related to atherogenesis. The other 3 undergraduates (Andre Alcon, Curtis Darling and Andrew Pham) started in the lab last summer, did a summer internship supported by the Dean of the Sciences College and have continued this year. Each now have started their own projects in the lab in conjunction with a graduate student or a postdoc.

Graduate Advising:

Advisory Committees: In addition to my own students, several additional graduate students in the graduate group of Cell Molecular and Developmental Biology and Biomedical Sciences.
Dissertation Advisor: Five PhD students. Two working on “The role of chemokines in wound healing” and three on "The effects of cigarette smoke on chemokine expression and function". One Masters students working on the role of chemokines in angiogenesis.
Dissertation PhD Committee: Several students in the Graduate Program in Cell, Molecular, and Developmental Biology and Biomedical Sciences

Postdoctoral Advising: Advisor of two fellows.

2007-08 – On Sabbatical leave at Stanford University; no formal classroom teaching

Undergraduate Advising:

Research Supervision: Andre Alcon went with me for part of the year to do research at Stanford.

Graduate Advising:

Dissertation Advisor: three PhD students. One working on “The role of VEGF/LIGHT in wound healing” and two on "The effects of cigarette smoke on wound healing of the cornea and of blood vessels".

Advising at Stanford: I advised several students and postdocs in the laboratory of my colleague G. Gurtner where I spent my Sabbatical leave.

2008-09

Classes:

Introductory guidance course (100%). Guiding undergraduates through college life. Fall 2008.

Co-Instructor (50%): Entry Level Course in Cell and Molecular Biology (300 students). Winter 2009.

Instructor in charge (50%). Introduction to Developmental Biology (30 students). Spring 2009.

Undergraduate Advising:

Research Supervision: Joey Chin, Avo Serafino and Milton Ferreyro second year students working with postdocs Melissa Petreaca on the chronic wound models and Hongwei Yuan on cigarette smoke effects on healing.

Graduate Advising:

Dissertation Advisor: one PhD student Allen Wang from the Biochemistry and Molecular Biology program and one PhD students from CMDDB, Darcie McLelland. Allen is working on the cellular and molecular mechanisms of pomegranate juice in prostate cancer/tumor development (tumors are considered wounds that do not heal) a new area in the lab. Darcie is continuing studies on e effects of insulin in inflammation during wound healing.

Postdoctoral Advising: Advisor of two fellows, M. Petreaca and H. Yuan.

2009-2010

Classes:

Co-Instructor (50%): Entry Level Course in Cell and Molecular (287 students). Winter 2010.

Co-Instructor (10%): Graduate Level Course in Cell Biology (11students). Winter 2010.

Instructor in charge (50%). Introduction to Developmental Biology (80 students). Spring 2010.

Graduate Course (100%). Cell and Molecular Basis of Inflammation-Induced Disease. Spring 2010.

Undergraduate Advising:

Research Supervision: Joey Chin, a third year student, and Lisa Money, a first year student, are currently working on the effects of insulin in wound healing. Milton Ferreyro, a second year student, and Avo Serafino, a second year student, are working on the chronic wound models. Jeffrey Ho is working on the roles of Pomegranate Juice in deterring the progression of prostate cancer.

Graduate Advising:

Dissertation Advisor: Two PhD students, Allen Wang from the Biochemistry and Molecular Biology program and Darcie McLelland from the Cell Molecular and Developmental Biology graduate program. Allen is working on the cellular and molecular mechanisms of pomegranate juice inhibition of prostate cancer/tumor development, a new area in the lab. Darcie is continuing studies on the effects of insulin in inflammation during wound healing. Ilva Cabrero is a new graduate student in the CMDB program who spent the summer in my laboratory on a minority fellowship and went on to rotate the first 4 weeks of the Fall quarter. She worked on the effects of second hand cigarette smoke on cytoskeletal elements involved in cell migration and how they can be reversed by Thymosin β 4.

Postdoctoral Advising: Advisor of two fellows, M. Petreaca and H. Yuan.

Visiting Scholar: Ana Rocha working on the effects of fibroblasts in cancer progression

Recent seminars given by my students in internal graduate symposia

Lei Zheng and Manuela Martins-Green (2001). Cloning and Characterization of Chicken CXC Chemokine Receptors. CMDB Symposium.

Lei Zheng and Manuela Martins-Green (2002). Regulation of Alpha Smooth Muscle Actin by Human Interleukin-8 in Human Fibroblast. CMDB Symposium.

M. Dueck and M. Martins-Green (2002). Potential Mechanisms by which Interleukin-8 Stimulates Alpha-Smooth Muscle Actin Production in Human Fibroblasts. CMDB symposium.

Lei Zheng and Manuela Martins-Green (2003). Signal Transduction Study on Thrombin-Driven Interleukin-8 Up-Regulation by Human Macrophages. CMDB Symposium.

M. Dueck and M. Martins-Green (2003). Potential Involvement of Interleukin-8 in Pericyte Differentiation. CMDB symposium. Won the Outstanding Research Award

Hongwei Yuan, Joseph Manlolo and Manuela Martins-Green (2003). Selection of Cloned Pk/Pban Receptor Sequence From Moth cDNA Library. CMDB Symposium.

Lei Zheng and Manuela Martins-Green (2004). The Molecular Mechanims of Thrombin-Induced Interleukin-8 Expression in Human Macrophages. CMDB Symposium.

M. Dueck and M. Martins-Green (2004) Partial Characterization of Signaling Molecules Important in IL-8-Induced Endothelial Permeability. CMDB symposium

H. Yuan, L. Wong, M. Bahattacharya, and M. Martins-Green (2004). Cigarette Smoking, MCP-1 and Atherosclerosis. CMDB Symposium.

Lei Zheng and Manuela Martins-Green (2005). Generation of a Cre/LoxP-Based Conditional Transgenic Vector with Color-Switching Indicator - To Decipher the Functions of IL-8 *in vivo*. CMDB Symposium. Won the Outstanding Research Award.

M. Dueck-Petreaca and M. Martins-Green (2005). Transactivation of Vascular Endothelial Growth Factor Receptor-2 (VEGFR2) by Interleukin-8 (IL-8/CXCL8) is Required for IL-8-Induced Endothelial Permeability. CMDB symposium.

H. Yuan, L. Wong, M. Bahattacharya, and M. Martins-Green (2005). MCP-1 and Adiponectin in Cigarette Smoking-Induced Atherosclerosis. CMDB Symposium.

M. Dueck-Petreaca and M. Martins-Green (2006). IL-8-Induced Endothelial Permeability: The Role of VEGFR2 Transactivation. CMDB symposium.

H. Yuan and M. Martins-Green (2006). Cytokine In Cigarette Smoke Induced Steatosis (Fatty Liver). CMDB symposium.

Yuan, H. and Martins-Green, M. (2007). Cigarette Smoke Induces Steatosis (Fatty Liver Disease) Through Stimulation of TNF Alpha. 8th Cell, Molecular & Developmental Biology Annual Research Symposium, University of California, Riverside. June 19-20.

Petreaca, M.L., Yao, M., and Martins-Green, M. (2007). VEGF is Critical in Resolution of Inflammation During Wound Healing. 8th Cell, Molecular & Developmental Biology Annual Research Symposium, University of California, Riverside. June 19-20.

H. Yuan and M. Martins-Green. (2008) Cigarette smoke induces fatty liver disease by modulating sterol response element binding protein-1. 9th Cell, Molecular & Developmental Biology Annual Research Symposium. June 19-20, 2008. University of California, Riverside.

PUBLICATIONS

**** Featured in the ASCB Press Book of that Annual Meeting**

1. Borges, M.L. and **M. Martins** (1972). Etiology of tobacco reversion. *Agronomia Lusitana*, **33**: 443-453 (in Portuguese).
2. Ascencao, L.M., M.L. Borges and **M. Martins** (1974). Ultrastructural and physiological changes in *Nicotiana tabacum L.* leaves infected with *Tobacco Vein Mosaic Virus*. *Agronomia Lusitana* **35**: 232-241 (in Portuguese).
3. Antunes, T., M.L. Borges and **M. Martins** (1974). Cell ultrastructure of *Vicia faba L.* infected with *Bread Bean Mosaic Virus*,. *Agronomia Lusitana* **35**: 465-477. (in Portuguese).
4. Portela-Gomes, G., **M. Martins** and J. Pinto Correia (1974). Ultrastructural changes of Jejunal epithelial cells in liver cirrhosis, *Scand. J. Gastroent.* **9**: 657-663.
5. **Martins-Green, M.** (1978). A simple procedure to obtain thick flat cornea sections for optical microscopy, *Stain Technology* **53**: 296-298.
6. Roth, A.R., J.L. Keltner, W.G. Ellis and **M. Martins-Green** (1979). Virus-simulating structures in the optic nerve head in Creutzfeldt-Jakob disease, *Amer. J. Ophthalmology* **87**: 827-833.
7. **Martins-Green, M.** and A.R. Roth (1982). Tubular aggregates in the non-pigmented epithelial cells of the ciliary body of the Rhesus Monkey. *J. Ultrastruct. Res.* **80**: 206-213.
8. **Martins-Green, M.** and C.A. Erickson (1986). The development of neural tube basal lamina during neurulation and neural crest cell emigration in the trunk of the mouse embryo. *J. Embryol. Exp. Morph.* **98**: 219-236.
9. **Martins-Green, M.** (1987). Ultrastructural and immunolabeling studies of the neural crest: Processes leading to neural crest cell emigration. PhD Dissertation, Univ. Calif., Davis, 194pp.
10. **Martins-Green, M.** and C.A. Erickson (1987). Basal lamina is not a barrier to neural crest cell emigration: Documentation by TEM and by immunofluorescent and immunogold labeling. *Development* **101**: 517-533.
11. **Martins-Green, M.** and K.T. Tokuyasu (1988). A pre-embedding immunolabeling technique for basal lamina and extracellular matrix molecules. *J. Histochem. and Cytochem.* **36**: 453-458.

12. **Martins-Green, M.** (1988). Origin of the dorsal surface of the neural tube by progressive delamination of epidermal ectoderm and neuroepithelium: Implications for neurulation and neural tube defects. *Development* **103**: 687-706.
13. **Martins-Green, M.** and C.A. Erickson (1988). Patterns of cholinesterase staining during neural crest cell morphogenesis in mouse and chick embryos. *J. Exp. Zool.* **247**: 62-68.
14. **Martins-Green, M.** (1990). Transmission electron microscopy and immunolabelling of tissues for light and electron microscopy. In *The Postimplantation Mammalian Embryo: A Practical Approach*, A. Copp, ed, pp.127-154, IRL Press, Oxford, UK
15. **Martins-Green, M.** and M.J. Bissell (1990). Localization of 9E3/CEF4 in avian tissues: Expression is absent in RSV-induced tumors but is stimulated by injury. *J. Cell Biol.* **110**: 581-595. (photo on journal cover)
16. Stoker, A., C. Streuli, **M. Martins-Green** and M.J. Bissell (1990). Designer microenvironments for the analysis of cell and tissue function. *Current Opinion in Cell Biol.* **22**: 864-874.
17. **Martins-Green, M.**, C. Tilley, R. Schwarz, C. Hatier, and M.J. Bissell (1991). Wound-factor-induced and cell cycle phase-dependent expression of 9E3/CEF4, the avian *gro* gene. *Cell Regulation* **2**: 739-752. (photo on journal cover)
18. **Martins-Green, M.**, A. Aotaki-Keen, L. Hjelmeland and M.J. Bissell. (1992) The 9E3 protein: Immunolocalization *in vivo* and evidence for multiple forms in culture. *J. Cell Science* **101**: 701-707.
19. **Martins-Green, M.**, N. Boudreau, and M.J. Bissell (1994). Inflammation is responsible for the development of wound tumors in RSV-infected newly-hatched chicks. *Cancer Res.* **54**:4334-4341.
20. **Martins-Green, M.** and M.J. Bissell (1995). Cell-extracellular matrix interactions in development. *Sems. in Dev. Biol.* **6**:149-159.
21. Fang, K., **M. Martins-Green**, L. T. Williams and H. Hanafusa (1996). Molecular cloning of chicken protein tyrosine phosphatase α and its expression in the central nervous system. *Molecular Brain Research* **37**: 1-14. (photo on journal cover)
22. **Martins-Green, M.**, M. Stoeckle, S. Wimberly, A. Hampe and H. Hanafusa (1996). The 9E3/CEF4 cytokine: kinetics of secretion, processing by plasmin, and interaction with extracellular matrix. *Cytokine* **8**: 448-459.
23. **Martins-Green, M.** (1997) Dynamics of Cell-ECM interactions with implications for tissue engineering. In Principles of Tissue Engineering. Ed. R.P. Lanza, W.L. Chick and R. Langer. R.G. Landes Co. pp 25-48 (invited review).

24. **Martins-Green, M.** and H. Hanafusa (1997). The 9E3/CEF4 gene and its product the chicken Chemotactic and Angiogenic Factor (cCAF): potential roles in wound healing and tumor development. *Cytokines and Growth Factor Rev.* **8**(3): 219-230.
25. Vaingankar, S. and **M. Martins-Green** (1998). Thrombin activation of the 9E3/CEF4 chemokine involves tyrosine kinases including *c-src* and the EGF receptor. *J Biol Chem.* **273**:5226-5234.
26. **Martins-Green, M.**, and J.E. Feugate (1998). The 9E3/CEF4 gene product is a chemotactic and angiogenic factor that can initiate the wound healing cascade *in vivo*. *Cytokine* **10**:522-535.
27. **Martins-Green M.**, and T. Kelly (1998). The chicken chemotactic and angiogenic factor (cCAF): Its Angiogenic properties reside in the C-terminus of the molecule. *Cytokine* **10**:819-829.
28. Li, QJ., S. Vaingankar, H. M. Green, and **M. Martins-Green** (1999). Activation of the 9E3/cCAF chemokine by phorbol esters occurs via multiple signal transduction pathways that converge in MEK1/ERK2 and activate the Elk1 transcription factor. *J. Biol. Chem.* **274**:15454-15465.
29. **Martins-Green, M.** (2000) Dynamics of cell-ECM interactions with implications for tissue engineering. In *Principles of Tissue Engineering*. 2nd Edition, Eds. R.P. Lanza, W.L. Chick and R. Langer. R.G. Landes Co. (invited). pp33-55.
30. Melkonian, G., C. Li, W. Zheng, P. Talbot and **M. Martins-Green** (2000). Normal patterns of angiogenesis and extracellular matrix deposition in chick chorioallantoic membranes are disrupted by mainstream and sidestream cigarette smoke. *Toxicology and Applied Pharmacology* **163**(1):26-37.
31. **Martins-Green, M.** (2000). The 9E3/cCAF chemokine. Chapter 10012 in "A Compendium of Cytokines and Other Mediators of Host Defense" (eds. J. Oppenheim, S. Durum), Academic Press Ltd.
32. **Martins-Green, M.**, J. L. Bixby, T. Yamamoto, T. Graf and M. Sudol (2000). Tissue specific expression of Yrk kinase: implications for differentiation and inflammation. *International J. of Biochem. and Cell Biol.* **32**:351-364.
33. Li, QJ., S. Lu, R. Ye and **M. Martins-Green** (2000). Isolation and characterization of a novel CXC chemokine receptor gene. *Gene* **257**:307-317.
34. Li, QJ., S. Vaingankar, F. Sladek, **M. Martins-Green** (2000). Novel nuclear target for thrombin: activation of the Elk1 transcription factor leads to chemokine gene expression. *Blood* **96**(12):3692-3702.

35. Liang, TS, JK Hartt, S. Lu, **M. Martins-Green**, J-L Gao, PM Murphy (2001). Cloning, mRNA distribution, and functional expression of an avian counterpart of the chemokine receptor/HIV coreceptor CXCR4. *J. Leukocyte Biol.* 69:297-305.
36. **Martins-Green, M.** (2001). The chicken chemotactic and angiogenic factor, a CXC chemokine. Special Issue on Angiogenesis, J. Laurent and L. Claesson-Welsh (eds). *International J. of Biochem. and Cell Biol.* 33:427-432.
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39. **Martins-Green, M.** (2002). Functions of the chicken IL-8 (cCAF) in wound healing. *Wounds* 14:187-198 (Invited Review).
40. Feugate, J.E., Wong, L, Li, QJ and **Martins-Green, M.** (2002). The CXC chemokine cCAF stimulates precocious deposition of ECM molecules by wound fibroblasts, accelerating development of granulation tissue. *BMC Cell Biology* 3:1-15.
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44. Altstein, M., QJ Li, **M. Martins-Green.** (2003) Tissue specific expression of the Pyrokinin/PBAN receptors. *Peptides*, 24:1335-1347.
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46. Wong, L. and **M. Martins-Green** (2004). "Firsthand" cigarette smoke alters fibroblasts migration and survival: Implications for impaired Healing. *Wound Repair and Regeneration* 12(4):471-84.
47. Rui-Hai Zhou*, Min Yao*, Tzong-Shyuan Lee, Yi Zhu, **Manuela Martins-Green**, and John Y-J. Shyy (2004). Vascular Endothelial Growth Factor Activation of Serol Regulatory Element Binding Protein: A Potential Role in Angiogenesis. *Circ Res.* 95:471-8. Epub 2004 Jul 22. PMID: 15271857.
48. Li, QJ, M. Yao, W. Wong, V. Parpura, **M. Martins-Green**. (2004). The N- and C-terminal peptides of hIL8/CXCL8 are ligands for hCXCR1 and hCXCR2. *FASEB* Epub 2004 Feb 6.
- 48a. Li, QJ, M. Yao, W. Wong, V. Parpura, **M. Martins-Green**. (2004). The N- and C-terminal peptides of hIL8/CXCL8 are ligands for hCXCR1 and hCXCR2. *FASEB J.* 18:776-8. Three page summary + unique figure
49. **Martins-Green, M.** Q-J Li and Min Yao (2005). A new generation organ culture arising from cross-talk between multiple primary human cell types. *The FASEB Journal* express article 10.1096/fj.04-1725fje. Published online 2004 December 9.
- 49a. **Martins-Green, M.** Q-J Li and Min Yao (2005). A new generation organ culture arising from cross-talk between multiple primary human cell types. *FASEB J.* 19:222-4. Three page summary + unique figure.
51. Ueda, Eric, Ugur Ozerdem, Yen-Hao Chen, Min Yao, Huiqin Sun, **Manuela Martins-Green**, Paolo Bartolini and Ameae M. Walker (2006). A molecular mimic demonstrates that phosphorylated human prolactin is a potent anti-angiogenic hormone. *Endocr. Relat. Cancer* 13(1):95-111.
52. Yao, Min, Rui-Hai Zhou, Melissa Petreaca, John Shyy and **Manuela Martins-Green** (2006). "Signal Transduction Pathways Stimulated by Different Types of Angiogenic Factors Converge in Activation of SREBPs and RhoA". *J. Leukocyte Biology* 80(3): 608-20. Epub 2006 Jul 18.
53. Dueck-Petreaca, Melissa and **Manuela Martins-Green** (2006). "Biologic and Molecular Basis of Regenerative Medicine: Cell-Extracellular Matrix Interactions" in Principles of Regenerative Medicine, edited by Anthony Atala, Robert Lanza, James Thomson, Robert Nerem.
54. Dueck-Petreaca, Melissa and **Manuela Martins-Green** (2006). "Cell-Extracellular Matrix Interactions with implications for Tissue engineering" in Principles of Tissue engineering, 3rd edition, edited by Robert Lanza, Robert Langer and Joseph Vacanti.
55. Yuan, Hongwei, Lina Wong, Monideepa Bhattacharya, Matthias Schneider, Robert E. Pitas and **Manuela Martins-Green** (2007). Second-Hand Smoke Effects on Biological

- Processes Important in Atherogenesis. *BMC Cardiovascular Disorders* 2007, **7**: 1 (08 Jan 2007).
56. Zheng, Lei, Christian Lytle, Ching-ni Njauw, Miriam Altstein and **Manuela Martins-Green** (2007). Cloning and Characterization of the Pheromone Biosynthesis Activating Neuropeptide Receptor Gene in *Spodoptera littoralis* Larvae. *Gene*, doi:10.1016/j.gene.2006.12.025.
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 59. Patreaca, M., Yao, M., Liu, Y., DeFea, K., **Martins-Green, M.** 2007. Transactivation of Vascular Endothelial Growth Factor Receptor-2 (VEGFR2) by Interleukin-8 (IL-8/CXCL8) Is Required For IL-8-Induced Endothelial Permeability. *Molecular Biology of the Cell* 18:5014–5023.
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 61. Dueck-Petreaca, Melissa and **Manuela Martins-Green** 2007. "Dynamics of Cell-ECM Interactions" in *Principles of Tissue engineering*, 3rd edition, Chapter 7, edited by Robert Lanza, Robert Langer and Joseph Vacanti. (Refereed, Non-Electronic, Invited).
 62. Dueck-Petreaca, Melissa and **Manuela Martins-Green** 2008. "Biologic and Molecular Basis of Regenerative Medicine: Cell-Extracellular Matrix Interactions in Repair and Regeneration" in *Principles of Regenerative Medicine*, Chapter 5, pp 66-99. Edited by Anthony Atala, Robert Lanza, James Thomson, Robert Nerem. Publisher, Elsevier (Refereed, Non-Electronic, Invited).
 63. Njauw, Ching-Ni, Hongwei Yuan 1, Lei Zheng, Min Yao, **Manuela Martins-Green** (2008). Origin of periendothelial cells in microvessels derived from human microvascular endothelial cells. *The International Journal of Biochemistry & Cell Biology* 40:710–720. Available online at www.sciencedirect.com
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 65. **Martins-Green, Manuela**, Melissa Petreaca, and Min Yao (2008). An assay system for *in vitro* detection of permeability in human “endothelium”. *Methods in Enzymology*

volume dedicated to in vitro methods to study angiogenesis. MIE vol 443, Chapter 8.

66. Petreaca, M.L., Yao, M., and **M. Martins-Green** (2008). VEGF promotes macrophage apoptosis through stimulation of Tumor Necrosis Factor superfamily member 14 (tnfsf14/light). *WRR* 16:602-614.
67. Yan Liu, Melissa Petreaca, Min Yao, **Manuela Martins-Green** (2009). Insulin accelerates re-epithelialization during wound healing through integration of multiple aspects of keratinocyte behavior. *BMC Cell Biology*, 10:1-15.
68. Yan Liu, Melissa Petreaca, and **Manuela Martins-Green** (2008). Cell and Mechanisms of Insulin-Induced Angiogenesis. *Journal of Cell and Molecular Medicine*, 12:1-13.
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70. Hongwei Yuan, John Y.-J Shyy, **Manuela Martins-Green** (2009). Second-Hand Smoke Stimulates Lipid Accumulation in the Liver by Modulating AMPK and SREBP-1. *JHEPT* 51 (3):535-547. With extensive editorial comments by:
Ariane Mallat and Sophie Lotersztajn (2009). Cigarette smoke exposure: A novel cofactor of NAFLD progression? *JHEPT* 51 (3):430-432.
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72. **Martins-Green, M.** and Petreaca, M. (2010). A Family of Small Cytokines Called Chemokines is Important in Regulation of Wound Repair. *Advances in Wound Care: Volume 1 Section 5- Inflammation*, Chapter 28. Editor, Chandan K. Sen. ISBN13: 978-1-934854-01-3 ISBN10: 1-934854-01-8.
73. Dueck-Petreaca, M. and **M. Martins-Green** (2010). "Biologic and Molecular Basis of Regenerative Medicine: Cell-Extracellular Matrix Interactions in Repair and Regeneration" *Foundations of Regenerative Medicine, Part II*. Chapter 5, pages 66-69, edited by Anthony Atala, Robert Lanza, James Thomson, Robert Nerem, Academic Press.
74. Hrynyk, M., **M. Martins-Green**, A. E. Barron and R. J. Neufeld (2010). PLGA microspheres as a vehicle for sustained topical delivery of bioactive human insulin. *Journal of Controlled Release*. Submitted.
75. Qiuyan Dai¹, Hongwei Yuan, Min Yao, N. Zou¹, BG. Sun, and **Manuela Martins-Green** (2010). A 3-D Human Arterial Wall Culture System for the Study of Vessel Biology and Disease. Submitted.

76. Oren Gilad, Lindsey Demetral, Simon Cherry, Yoshihiro Izumiya, Chie Izumiya, Jonathan Choi, Ricardo Hurtado, Kinnari Pandya, Jeremy Kamil, **Manuela Martins-Green**, Hsing-Jien Kung, and Mark S. Parcells (2010). The Marek's Disease Virus (MDV) Interleukin 8 Homolog (vIL-8) is Chemotactic for Chicken Macrophages and Induces Survival of MDV-transformed T-Cells via CXCR1. Submitted.
77. **Martins-Green, M.** and Petreaca, M. (2010). Chemokines: The neglected cytokines in Wound Healing. WRR, in preparation.

MEETING PROCEEDINGS

1. Hrynyk M., **Martins-Green M.**, Barron A.E. and Neufeld R. (2009). Delivery of Encapsulated Human Recombinant Crystalline Insulin from PLGA Microspheres. XVIIth International Conference on Bioencapsulation, Groningen, Netherlands; September 24-26, 2009.

OTHER

1. **Martins-Green, M.**, Y. Vodovotz, P. Liu (2010). Systems Biology Applied to Wound Healing. WRR, *in Press*.
2. **Martins-Green, M.** (2010). The master at work. Saburo Hanafusa: A Mentor for All Seasons. Editors Kathleen Barker and Toru Ouchi, publisher TRAIS. In Press.

ABSTRACTS

**** Indicates abstracts Feature in the ASCB Press Book for the Annual Meeting.**

- A1. **Martins-Green, M.** and C.A. Erickson (1985). Neural crest cells: Initiation of migration is not triggered by disruption of basal lamina. *Cell Differentiation* **16**: Abs. Suppl., 25.
- A2. **Martins-Green, M.** and C.A. Erickson (1986). Control of separation of the epidermal ectoderm from neural ectoderm during neurulation. *J. Cell Biol.* **103**: 89a.
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In Press

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