

CVs and Statements of Candidates for ICHTS 2006 President-Elect

Yi-Xian Qin, Ph.D.

Associate Professor, Biomedical Engineering & Orthopaedics
Stony Brook University, NY, USA



Education/Training

Dr. Qin completed his undergraduate education in China and worked for Shanghai Second Medical University and Fudan University prior his coming to the United States. He completed his doctoral study in Mechanical Engineering (specialty in Orthopaedic Biomechanics) and post-doc in 1997 and 1998 at Stony Brook University.

Research and Professional Experience

Dr. Qin is currently an Associate Professor of Biomedical Engineering and Orthopaedics, and Director of Orthopaedic Biomechanics and Bioinstrumentation Laboratory, SUNY Stony Brook. He is also an Associate Team Leader, Tech Development Team of National Space Biomedical Research Institute (NSBRI), a NASA branch. His research interests are currently focused on hard tissue mechanobiology for bone disease, i.e., osteoporosis, and non-invasive diagnostic and therapeutic technology development for bone loss.

Dr. Qin is currently funded by NIH (2 R01s), NSBRI, NASA, and US Army Medical Research. He holds six patents and disclosures in the area of bioengineering, and authored more than 30 peer reviewed publications. He is the member of more than 10 national and international scientific societies. Dr. Qin has served as reviewers for major research funding agencies, e.g., NIH, and more than 10 journals. He currently serves as an Associate Editor for the Journal of Orthopedic Surgery and Research representing ICHTS.

Dr. Qin joined the ICHTS five years ago and is served as the Vice President for the society. He has involved in many major societal events. He served as a host for the member meeting at ASBMR 2004, young investigator award committee chair for the ICHTS/ORS 2005 meeting, and the General Organizer for the 3rd ICHTS/ORS 2006 meeting at Chicago this year.

Representative Publications

Qin, Y-X., Lin, W., and Rubin, C.T. (2002): The Pathway of Bone Fluid Flow as Defined by In Vivo Intramedullary Pressure and Streaming Potential Measurements, *Annals Biomed Eng*, 30:693-702.

Qin, Y-X., Kaplan, T., Saldanah, A. and Rubin, C.T. (2003): Fluid Pressure Gradients, Arising from Oscillations in Intramedullary Pressure, is Correlated with the Formation of Bone and Inhibition of Intracortical Porosity. *J Biomech*, Oct;36(10):1427-37.

Rubin, C. T., Qin, Y-X, Judex, S. (2004): The osteogenic potential of extremely low level mechanical signals: the physiologic relevance and clinical application of a non-invasive, non-pharmacologic factor which is strongly anabolic to bone. *Biological Mechanisms of Tooth Movement and Craniofacial Adaptation*, Ed. By Z. Davidovitch and J. Mah. Harvard Soc for the Adv of Orthodontics, Boston, MA, page 379-389

Mittra, E., Rubin, C. and Qin, Y-X. (2005): Interrelationship of trabecular mechanical and microstructural properties in sheep trabecular bone. *J Biomech*, 38(6):1229-37.

Lin, W. Mittra, E. and Qin, Y-X. (2006): Determination of ultrasound phase velocity in trabecular bone using time dependent phase tracking technique. *J Biomech Eng*, Feb., 128(1):24-29.

Personal Statement

ICHTS is a rapidly growing scientific society, especially in the Chinese scholar community. I am very happy and enjoyed to be one of the members for this young and dynamic society. If I would have chance to be elected as a president-elect of the ICHTS, I would like to dedicate my best efforts to closely work with President Di Chen and make our society continuously to grow and become more visible in the Chinese and international communities. I will continue my strong support for the society and particularly in the areas of 1) further promoting the quality and quantity of ICHTS membership and activities in the areas of bioengineering, biomedical engineering and interdisciplinary of hard tissue sciences; 2) further promoting and helping member activities in ASBMR and ORS meetings, and international activities; 3) promoting member connections and networking for collaborations; 4) helping and promoting outreach programs in China; and 5) promoting young scientists in the research and career development.

Ling Qin, PhD

Professor, Director of Research,
Dept of Orthopaedics & Traumatology,
Chinese University of Hong Kong
Hong Kong, PR China



I. Qualifications:

1978-1982 B.Ed. Institute of Human Life Science at the Beijing University of Physical Education, China. 1985-1987
M.Ed. School of Postgraduate Studies at the Beijing University of Physical Education, China
1988-1992 PhD, Institute of Experimental Morphology at the German Sports University Cologne, Germany

II. Positions held:

1982-1985 Teaching and Research Assistant, Dept. of Functional Anatomy at the Beijing University of Physical Education
1992-1993 Postdoctoral fellow, AO-Forschungsinstitut /ASIF Research Institute Davos, Switzerland
1993-1994 Scientist, Dept. of Orthopaedic Surgery, University Clinic Rudolf Virchow, Free University Berlin, Germany
1994-1996 Scientific Officer, Department of Orthopaedics & Traumatology, Chinese University of Hong Kong
1997-2000 Assistant professor (non-clinic), Department of Orthopaedics & Traumatology, Chinese University of Hong Kong
2001- Associate professor, director of research, Dept of Orthopaedics & Traumatology, Chinese University of Hong Kong
2005- Professor, director of research, Dept of Orthopaedics & Traumatology, Chinese University of Hong Kong

III. Research Work:

Technical expertise: Bone mineral density and structure evaluation, histomorphometry, tissue biomechanics
Research area: Bone-tendon junction repair, osteoporosis

IV. Membership of Orthopaedic and Related Research Organizations and Consultancy:

Since 1994 Director, Musculoskeletal Research Laboratory, Dept. of Orthopaedics & Traumatology, CUHK
Since 1997 Advisor, Chinese National Textbook Committee for "Sports Anatomy"
Since 1999 Senior Consultant, Guangzhou Research Institute of Traumatology, PR China
Since 1999 Editor, Chinese Journal of Osteoporosis, PR China
1999 -2003 Board director (Hong Kong Chapter) the International Chinese Hard Tissue Society
Since 2002 Editor, Chinese Journal of Sports Medicine
Since 2002 Editor, Journal of Medical Biomechanics
Since 2003 Associate Editor-in-chief, Chinese Journal of Sports Medicine (English edition)
2004 - 2006 Member of Scientific Advisory Board of SYNARC Inc

V. **Publications:**

- (1) 3 Theses
- (2) 4 Books (editor) and 2 conference proceedings (editor)
- (3) 28 Book Chapters
- (4) 94 Journal papers in English, German, and Chinese
- (5) 315 Conference abstracts in proceedings

VII. **Supervision or co-supervision for graduate students**

- | | | |
|---------------|---|---|
| MPhil studies | 4 | (Thesis evaluation and examination: 11) |
| PhD studies | 4 | (Thesis evaluation and examination: 20) |

VIII. **Research Awards** 10

Personal Statement

It is indeed my great honor to be nominated for 'president-elect' in an earlier exercise of '2006 ICHTS Election of Board of Directors and President-elect'. I appreciate the trusts of our ICHTS leadership team and members at large. Although the duties and commitments of ICHTS president and/or president-elect are challenging, I would accept this nomination and put myself standing for election and serve our ICHTS in whatever capacity.

Currently, I devote myself to our ICHTS as member of Board Directors in charge of China Development Committee. This is a challenging post as well. It requires enormous initiations and implementations. In the past two years, I facilitated a few events, which helped to provide appreciated or relevant platforms for our ICHTS to expand her influence and further develop in our profession, especially in China. Following is the summary of above major events since 2004:

- 1) Joint Symposium and workshop
 - 2004 CSOS/ICHTS Congress in Beijing
 - 2005 International Symposium on Quality of Bone in Hong Kong
 - 2006 CORS/COA congress in Beijing with details under (http://www.olc-cuhk.org/temp/cors_booklet.pdf) and (<http://www.chinamed.com.cn/coa2006>)
- 2) Member recruitment: strongly promoted through above events
- 3) Fund raising: by inviting company and my own private donation (documented with the society)
- 4) Facilitating CSOC/ICHTS joint journal, i.e. Journal of Orthopaedic Surgery and Research (JOSR) (<http://www.josr-online.com>)

As an active member of ICHTS I will further contribute to above activities irrespective in what capacity. Yet, more contribution should be expected at the position of ICHTS president-elect.

Following are statements and considerations made for the nomination of ICHTS president-elect, with the proposed obligations underlined:

1. General statement

If elected, I would work with the board directors and ICHTS members closely to promote the society and fulfill the missions, good policies made and strategies developed over the years under the leadership of previous ICHTS presidents. As we are living in a changing and challenging arena, especially with the rapid development in China, new strategies and development in China will be one of the important focuses of the coming ICHTS president, board directors and our active members. These will include joint research and development, education, services, and career development of our ICHTS members not only in overseas but also in China. As the president and/or president-elect, he or she shall

- show his/her integrity, energy and abilities to unite the society, friends, and collaborators of ICHTS, to work for her current development and future;
- lead the board and members to achieve global recognition in the musculoskeletal research, especially with emphasis but not restrict to hard-tissue research and development through education and research;
- Commit fundraising from existing and other potential sources to support the essential needs for running the society as ICHT remains a non-profit-making organization. These may include:
 - Continued and expanded corporate sponsorships based on the current available list with the society

- Company contribution (pharmaceutical, device and implants companies)
 - Charity fund
 - Senior citizens, who are interested in sponsoring musculoskeletal research (Bone Joint Decade Campaign) osteoporosis and arthritis, research toward discovering new cures.
 - Philanthropist contribution
 - Individual contributions from members (also through membership fee suggested below)
 - Income from joint conferences / workshops
- etc.....

2. Specific considerations as goals to be achieved in coming years

The points mentioned below are missions or commitments to be accomplished, which are basically related to consolidation and further expansion of ICHTS's impact and recognition in the related international community based on the accomplishments of previous presidents, their leadership teams, and active members.

2.1. To work with an energetic and committed leadership team to develop and stratify strategies and directions.

2.1.1. To form an energetic and committed leadership team, i.e. board directors and their subcommittees

- To recruit 1-2 more board directors from China and/or the regions: This will help to recruit more members and facilitate more collaboration with mainland authorities, professional bodies, and academic institutions.
- To organize brainstorming meetings to meet the challenges of changing international and local arena in our profession. One of such focuses is to facilitate collaborations between academic institutions, industries and clinical service units towards joint R&D in musculoskeletal research, products development, and providing services. This should also be one of the measures of the long sustainability in overall development strategy within our ICHTS. This shall also be the general interests of our ICHTS members.

2.1.2. Member recruitment

Over the past decade, ICHTS has matured into an influential organization with more than 700 members worldwide, expanding its influence within Chinese as well as international research communities. But since there is no membership required, the actual number of active members may be limited. How to overcome this drawback should be one of the major tasks of the society. Following are thoughts on membership and membership fee, which shall be achievable:

- No entry requirement in terms of membership fee to become regular member (or life member as no time frame is specified). This is the current policy, which is definitively good for recruit more members.
- More categories of memberships with membership fee contributing to society
 - Senior life members (\$1,000)
 - Life member (\$200)
 - Recommendation for board discussion and endorsement: only senior and life members are eligible to be nominated for board directors and president-elect. This proposal will require Board for discussion and approval.

2.2.2. Help individual members to grow and make careers

This has been one of the commitments of our past presidents. ICHTS's development is evidenced in her synergy, collaboration and collective spirits, attributed by not only the leadership team but also the individual active members. However, for our junior members, the society shall continuously provide mechanisms to help them progress in the related research and their institutions with support of ICHTS. A number of steps can be initiated to help realize this objective (adopted from previous presidents):

- Further develop the existing program to introduce young members to the field of hard tissue research or in general, the field of musculoskeletal research.
- By applying for Travel Awards and making recommendation for other competitive research awards
- ICHTS senior fellow awards (to be approved by the board): to recognize members who have made excellent contributions to the society
- Awards named after distinguished figure(s) or companies with good reputations (to be approved and invited)
- To keep the established "Mentoring" program active and assessable to the junior members, including SCI paper writing and research grant application. This is particularly attractive for our members in China.
- To nominate active members to represent ICHTS to give presentations and seminars at various organized, co-organized, and invited conferences, symposiums, and workshops.

3. Joint conferences and workshops and other education opportunities – at win-win situation

ICHTS must continue to work with our partners to facilitate scientific exchanges in the form of jointly organized conferences, symposiums, and workshops.

3.1. International collaborations: various relevant meetings to be invited to organized or co-organize.

- We shall continue to work with various other societies who share common interests and goals. ICHTS will focus on promoting scientific and professional growth and exchanges in all formats.
- Our goal is to keep our focus clear, leveraging our voluntary efforts to provide maximum impact. Apart from our established collaborations with several leading international professional societies in bone mineral and orthopaedic professions, such as ASBMR, IBS, SIROT, ORS, we shall also further consolidate our collaboration with CSOS (Chinese Speaking Orthopedic Society) in education and publication, including the joint journal (JOSR).

3.2. China network:

- We shall contribute to publication and/or joint publication in SCI journals; to organize workshops on ‘How to write scientific papers’ and same time to emphasize avoiding ‘academic corruption’.
- We shall help increasing China’s research quality and standard in musculoskeletal, especially hard tissue research to the international level and facilitate collaborative research.
- We shall explore collaborations with Chinese mainstream societies, e.g. Osteoporosis Foundation of China, China Medical Association (CMA), Chinese Orthopaedic Research Society (CORS) of the Chinese Orthopaedic Association (COA), Health ministry and Technology Development Committee, Geriatric Society etc.
- To increase visibility and credibility of ICHTS within China in bone mineral and musculoskeletal research by
 - Joint centers or research labs with ICHTS
 - To serve as co-supervisor of postgraduate studies
 - Joint grant application locally and internationally, such as NIH, AO, NSFC, etc. This will help China establish a more respectful image in the international research community.
 - Publish in Chinese: in either journal or book format to bring updated knowledge to the Chinese community and re-enforce our status.
 - Work with SFDA to collect and disseminate key information on development opportunities of drug, orthopaedic materials and device in the field of bone and cartilage diseases; and establish standards in R&D, including both preclinical and clinical trials etc.
 - Bring more international thought leaders in line to work with us, on meetings, on strategies, and on collaborations in China.
 - Help identify training opportunities for those who got training grants from China or other funding agencies as the numbers of such support is increasing rapidly in China.
 - Help our collaborators use the research money wisely.
 - Help the Chinese scientists grow more competitively in the international community and establish a more respectful image in the international research community
 - etc.

Energized by the profound economic and scientific potential of the nation of China, many ICHTS members maintain ongoing working relationships there, while others hold joint appointments in Chinese universities and corporations. Members of ICHTS have knowledge, experience, reputation and accomplishments in bone and mineral and musculoskeletal research. As our ICHTS members are at the forefront of the technology and scientific frontier in the related fields, the efforts being made by our ICHTS will definitively make even bigger impacts in joint development our society and China in bone and mineral and musculoskeletal research to in the years to come.

However, when unable to jointly organize educational events, ICHTS shall consider taking opportunities or platforms to be provided to co-sponsor meetings and conferences for expanded exposure and influence, such as the one above. General guideline of such sponsorship should be developed by the corresponding Committee and approved by board in advance. Specifically, any individual speakers sponsored by ICHTS should be an ICHTS member or an honorary member. He or she shall seek opportunities to introduce ICHTS.

4. Management of the bilingual Website:

4.1. As a quick communication channel or platform: this has been improved in the recent years and the manager shall update the news and events from time to time to our members and collaborating societies and institutions. An E-mail database including these addresses should be further expanded and updated from time to time, including the announcement of *Newsletter*

4.2. To facilitate an interactive corner for members and non-members, with items:

- Announcement of ICHTS activities, nominate members to represent ICHTS to give presentations and seminars at various organized, co-organized, and invited conferences, symposiums, and workshops, etc.
- Source of recognitions of ICHTS member achievements
- Promotions (academic, industrial, government)
- Appointments (new positions)
- Strong publications
- Awards received
- Etc.

Finally, I appreciate the nomination for ‘president-elect’ of our ICHTS. Although to serve as president or president-elect of the society can realize more above missions and tasks, it remains my great pleasure and honor to serve our ICHTS in whatever capacity as it has been, irrespective the election results.

CVs of Candidates for ICHTS 2006 Board of Director Election



Jeremy J. Mao, DDS, PhD

Associate Dean for Research,
Associate Professor
School of Dental and Oral Surgery, Columbia University

Personal Statement:

I am deeply honored to have been nominated to serve a term on ICHTS. During my past participation, ICHTS has been a prestigious organization and instrumental in building scientific and social connections among scientists, industrial leaders and clinicians with a common Chinese origin who have a common interest in connective tissue research. If elected, I will work with the leadership team of ICHTS to further its missions in research and education. I currently serve on several editorial boards of scientific journals such as Tissue Engineering, review panels of NIH and other funding agencies, and have lectured at academic and industrial institutions in the US and overseas. My laboratory at Columbia University is currently funded by multiple NIH grants. I have chaired and/or co-chaired two NIH sponsored scientific conferences and obtained industrial support for conference funding. These previous experience would allow me to work, in multiple ways, with my esteemed colleagues who have been successfully serving ICHTS. My clinical qualification in dentistry would allow me to interact with colleagues who are interested in connective tissue research in dental, oral and craniofacial region.

EDUCATION/TRAINING

Wuhan University, China	D.D.S. 1983	Dentistry
University of Alberta, Canada	Ph.D. 1992	Interdisciplinary Engineering
University of Alberta, Canada	Postdoctoral 1993	Neuroscience/Medicine
University of Alberta, Canada	M.S.D 1996	Orthodontics/Dentistry

Positions and Honors.

Academic Positions

2005 -	Associate Dean for Research, School of Dental and Oral Surgery, Columbia University
2003 -2005	Associate Professor (with tenure), University of Illinois at Chicago
2001 -2002	Visiting Assoc. Professor, Department of Anatomy and Cell Biology, Rush University
2001 -	Adjunct Assoc. Professor, Department of Anatomy and Cell Biology, College of Medicine, UIC
2000 -	Adjunct Associate Professor, Department of Bioengineering, College of Engineering, UIC

1999 - Director, Tissue Engineering Laboratory, University of Illinois at Chicago

Other Positions

2005 - 2008 Permanent Member, NIH Musculoskeletal Tissue Engineering Study Section
2005 – 2009 Editorial Board, *Tissue Engineering*
2005 NIH Special Emphasis Panel on Tissue Engineering
2004 Editorial Board, *Medical Engineering and Physics*
2004 Editorial Board, *International Journal of Oral and Maxillofacial Surgery*
2004 NIH Special Emphasis Panel on Regenerative Dental Medicine
2003, 04 NIH Bioengineering Research Partnership Study Section Ad Hoc reviewer
2003, 04 NIH Regenerative Medicine Study Section Ad Hoc reviewer
2003 NIH/NIDCR Special Grant Review Panel Ad Hoc reviewer
2002 NIH/NIDCR Special Emphasis Panel on Stem Cell Regeneration
2002 - 2005 Editorial Board, *Journal of Dental Research*
2001 - Editorial Board, *Angle Orthodontics*
2001 - 2003 Editorial Board, *Frontiers in Bioscience* – Managing Editor, Special Issue: Biomimetics and Engineering of Skeletal Tissues
2001 - Grant reviewers for Medical Research Council of Great Britain, Wellcome Trust, United Kingdom, Israel Science Council, Netherlands Organization for Scientific Research (Dutch Research Council), Science and Engineering Council of Singapore, Innovation and Technology Division, Hong Kong; Michigan Skeletal Center, Pittsburgh Tissue Engineering Initiative
2001 - 2004 NIH Study Section SBIR/STTR Ad Hoc
1994 - ***Journal Reviewers:***
Nature Biotechnology, Arthritis & Rheumatism, Journal of Biomedical Materials Research (Part A and Part B), Tissue Engineering, Journal of Orthopaedic Research, Bone, Biomaterials, Journal of Bone and Mineral Research, Annals of Biomedical Engineering, Journal of Cellular Physiology, Biotechnology and Bioengineering, Medical Science Monitor, International Journal of Oral & Maxillofacial Surgery, Connective Tissue Research, Applied Anatomical Record, Journal of Biomechanical Engineering, Cells Tissues & Organs, Frontiers in Bioscience, American Journal of Orthodontics and Dentofacial Orthopedics, Angle Orthodontist, Journal of Biomechanics, Archives of Oral Biology, Journal of Dental Research, Stem Cells, The Cleft Palate Journal, Cell and Tissue Research, Osteoarthritis and Cartilage, Encyclopedia of Biomaterials and Biomedical Engineering, Biology of the Cell, Expert Review of Medical Devices

Honors and Awards

Whitaker Fellow; Who's Who in America; Intercampus Research in Biotechnology Award; Faculty Development Award; UPMC Medical Research Award; PTEI Research Development Award; Outstanding Researcher, BMES-UIC Chapter; Number 1 of Top 20 Most Read Papers – Stem Cells and Development

B. Peer-Reviewed Publications (Selected from past 2 years)

***: Corresponding Author.**

- 1) Muioli EK, Hong L, Guardado J, Clark PA, **Mao JJ*** (2006) Controlled release of TGF β 3 on early osteogenic differentiation of human mesenchymal stem cells. *Tissue Engineering* 12:537-546.
- 2) Sundaramurthy S, **Mao JJ*** (2006) Mechanical modulation of endochondral development in the distal femoral condyle. *Journal of Orthopaedic Research* 24:1-13.
- 3) Muioli EK, **Mao JJ*** (2006) Cell density and stem cell homing. *Tissue Engineering* (Invited position paper).
- 4) Stosich MS, **Mao JJ*** (2006) Adipose tissue engineering from human adult stem cells: Clinical implications in plastic and reconstructive surgeries. *Plastic and Reconstructive Surgery* (In press).
- 5) Grau N, Daw J, Patel RV, Lewis NW, **Mao JJ*** (2006) Nanomechanical and nanostructural properties of synostosed human cranial sutures. *Journal of Craniofacial Surgery* 17:91-98.
- 6) Rahaman MN, **Mao JJ*** (2005) Stem cell based composite tissue constructs for regenerative medicine. *Biotechnology & Bioengineering* 91:261-284.
- 7) Yourek G, **Mao JJ*** (2005) Stem cell ethics for biomedical engineers. *Medical Engineering & Physics* (In press).
- 8) Almubarak R, Da Silveira A, **Mao JJ*** (2005) Expression of matrix metalloproteinase genes 1 and 2 in rat facial and cranial sutures. *Cell & Tissue Research* 321:465-471.

- 9) **Mao JJ*** (2005) Calvarial development: cells and mechanics. *Current Opinions in Orthopaedics* 16:331-337.
- 10) **Mao JJ***, Giannobile WV, Helm J, Hollister SA, Krebsbach PH, Longaker MT, Shi S (2005) Stem cell driven craniofacial tissue engineering. *Journal of Dental Research* (Invited review).
- 11) Stosich MS, **Mao JJ*** (2005) Stem Cell Based Soft Tissue Grafts for Plastic and Reconstructive Surgeries. *Seminars in Plastic Surgery* 19:251-260.
- 12) Troken A, Marion N, **Mao JJ*** (2005) Properties of Cartilage and Menisci. In *Wiley Encyclopedia of Medical Devices and Instrumentation* (Invited article).
- 13) Alhadlaq A, **Mao JJ*** (2005) Osteochondral Tissue Engineering - Regeneration of Articular Condyle from Mesenchymal Stem Cells. In Ma PX, Elisseeff JH (Ed) *Scaffolding for Tissue Engineering*. Taylor & Francis, Boca Raton, FL, pp. 545-564.
- 14) **Mao JJ*** (2005) Stem cell driven regeneration of synovial joint. *Biology of the Cell* 97:289-301.
- 15) Clark PA, Rodriguez T, Sumner DR, Hussain M, **Mao JJ*** (2005) Micromechanical stresses enhance trabecular bone ingrowth surrounding rabbit femur titanium implants. *Journal of Applied Physiology* 98:1922-1929.
- 16) Hong L, Peptan A, Clark PA, **Mao JJ*** (2005) Ex vivo adipose tissue engineering by human marrow stromal cell seeded gelatin sponge. *Annals of Biomedical Engineering* 33:511-517.
- 17) Clark PA, Clark AC, Hu K, **Mao JJ*** (2005) Nanomechanical and micromechanical manipulation of bone-implant interface. *Materials Science and Engineering C* Special Issue on Nanostructured Materials for Biomedical Applications (In press).
- 18) Collins JM, Ramamoorthy K, Da Silveira A, Patston, PA, **Mao JJ*** (2005) Microstrain in intramembranous bones induces altered gene expression of MMP1 and MMP2 in the rat. *Journal of Biomechanics* 38:485-492.
- 19) Alhadlaq A, Tang M, **Mao JJ*** (2005) Engineered Adipose Tissue from Human Mesenchymal Stem Cells Maintains Predefined Shape and Dimension: Implications in Soft Tissue Augmentation and Reconstruction. *Tissue Engineering* 11:556-566.
- 20) Alhadlaq A, **Mao JJ*** (2005) Tissue engineered osteochondral constructs in the shape of an articular condyle. *Journal of Bone and Joint Surgery AM* 87:936-944.

C. Research Support

Ongoing Research Support

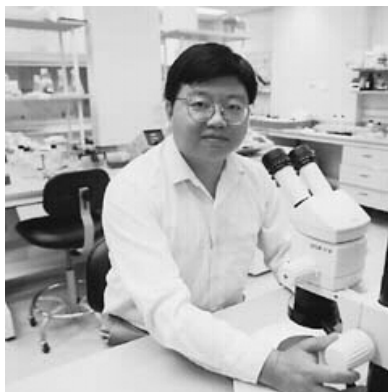
UUNIH/NIBIB R01EB02332 **Mao (PI)** 09/03-08/07 Effort: 20%
 Title: Functional Tissue Engineering of Tibial Condyle
 The goal of this project is to engineer tibial condyle of the knee joint by functional tissue engineering.
 Overlap with the present proposal: None

NIH/NIDCR R01DE15391 **Mao (PI)** 07/03-06/07 Effort: 20%
 Title: Stem cell-driven regeneration of the mandibular joint.
 The goal of this project is to optimize stem cells for the regeneration of the mandibular joint.
 Overlap with the present proposal: None

NIH/NIDCR R01DE13964 **Mao (PI)** 09/00-06/08 Effort: 15%
 Title: Engineered craniofacial osteogenesis.
 The goal of this project is to engineer bone in craniofacial skeleton.
 Overlap with the present proposal: None

NIH/NIBIB R13EB005943 **Mao (PI)** 09/05-08/06 Effort: 5%
 Title: Stem-Cell Based Tissue Engineering in Regenerative Medicine Conference
 The goal of this project is to organize a Stem-Cell Based Tissue Engineering in Regenerative Medicine Conference.
 Overlap with the present proposal: None

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Qian Chen, Ph.D.

Professor of Medical Science, Michael G. Ehrlich Chair in Orthopaedic Research,
 Director of Cell and Molecular Biology, Head of Orthopaedic Biological Research
 Department of Orthopaedics, Brown Medical School/Rhode Island Hospital,
 Providence, RI

EDUCATION/TRAINING

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, and include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Fudan University, China	B.S.	1985	Biochemistry
Tufts University, Boston	Ph.D.	1992	Cell. Mol. &
Harvard Medical School, Boston	Post-Doc	1994	Dev.Biol. Cell & Molecular Biol.

RESEARCH AND PROFESSIONAL EXPERIENCE:

Positions Held:

1986-1987	Visiting Scientist, Boston Biomedical Research Institute, Boston, MA
1992-1994	Research Fellow, Massachusetts General Hospital, Harvard Medical School, Boston, MA
1994-1995	Assistant Cellular Biologist, Massachusetts General Hospital Instructor, Harvard Medical School, Boston, MA
1995-2001	Assistant Professor, Departments of Orthopaedics & Rehabilitation, and Cellular & Molecular Physiology, The Pennsylvania State University College of Medicine Hershey, PA
2001-2002	Associate Professor, Departments of Orthopaedics & Rehabilitation, and Cellular & Molecular Physiology, The Pennsylvania State University College of Medicine Hershey, PA
2002-present	Professor of Medical Science, Michael G. Ehrlich Chair in Orthopaedic Research, Director of Cell and Molecular Biology, Head of Orthopaedic Biological Research Department of Orthopaedics, Brown Medical School/Rhode Island Hospital, Providence, RI

Honors:

1994-1996	Postdoctoral Fellowship, Arthritis Foundation, Atlanta, GA
1995	Outstanding Research Presentation Award, 15th Annual East Coast Connective Tissue Society Meeting, Piscataway, NJ
1997-1999	Arthritis Investigator Award (J.V. Satterfield Award), Arthritis Foundation, Atlanta, GA
1997-2002	The FIRST Award, National Institute on Aging, NIH, Bethesda, MD
1997	New Investigator Recognition Award, Orthopaedic Research Society, Chicago, IL
1999	Novartis Foundation Bursary, London, UK
1998-2003	Independent Scientist Award, NIH (PHS-Research Career Development Award), Bethesda, MD
2000	Kappa Delta Young Investigator Award, American Academy of Orthopaedic Surgeons
2001	Hinkle Society Award, Hershey, PA

Committees and Public Service:

1999	Westinghouse Science Competition Judge, Princeton, NJ
2001	NIH Study Section Reviewer, National Institute of Child Health and Human Development Special Emphasis Panel, Bethesda, MD
2001	Ad-hoc Reviewer, National Science Foundation, MCB-Signal Transduction and Regulation, Arlington, VA
2001	Study Section Reviewer, National Institute on Aging Special Emphasis Panel, Bethesda, MD
2002	Member, National Institute on Aging "ECM and aging" Advisory Panel, VA
2002	Study Section Reviewer, NIA(B), Bethesda, MD
2002-	Chair, Special Interest Session on Matrilin, American Society of Matrix Biology, Houston, TX
2002-	Editor, Basic Science Section, Current Opinion in Orthopaedics
2003	Chair, Symposium in Cell-Matrix Adhesion and Signaling, Experimental Biology, San Diego, CA

Representative Publications:

- Chen, Q.**, Gibney, E., Fitch, J.M., Linsenmayer, C., Schmid, T.M. and Linsenmayer, T.F. Rapid translocation of type X collagen through embryonic cartilage matrix. *Proc. Natl. Acad. Sci. USA*, 87, 8046-8050, 1990.
- Linsenmayer, T.F., **Chen, Q.**, Gibney, E., Gordon, M.K., Marchant, J.K., Mayne, R. and Schmid, T.M. Collagen types IX and X in the developing chick tibiotarsus: analysis of mRNAs and proteins. *Development*, 111:191-196, 1991.
- Chen, Q.**, Linsenmayer, C., Gu, H.H., Schmid, T.M., and Linsenmayer, T.F. Domains of type X collagen: alteration of cartilage matrix by fibril association and proteoglycan accumulation. *J Cell Biol.*, 117:687-694, 1992.
- Chen, Q.**, Fitch, J.M., Linsenmayer, C., and Linsenmayer, T.F. Type X collagen: Covalent crosslinking to hypertrophic cartilage-collagen fibrils. *Bone Miner.*, 17:223-227, 1992.
- Chen, Q.** and Linsenmayer, T.F. Distributions of fibronectin in the developing avian cartilaginous growth plate. *Prog. Clin. Biol. Res.*, 383B:495-504, 1993.
- Chen, Q.**, Fitch, Gibney, E., and Linsenmayer, T.F. Type II collagen during cartilage and corneal development: Immunohistochemical analysis with an anti-telopeptide antibody. *Dev. Dyn.*, 196(1):47-53, 1993.
- Chen, Q.**, Gibney, E., Leach, R.M., and Linsenmayer, T.F. Chicken tibial dyschondroplasia: a limb mutant with two growth plates and possible defects of collagen crosslinking. *Dev. Dyn.*, 196:54-61, 1993.
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- Chen, Q.**, Zhang, Y., Johnson, D.M. and Goetinck, P.F. Assembly of novel cartilage matrix protein filamentous network: molecular basis of differential requirement of vWF A domains. *Mol. Biol. Cell*, 10:2149-2162, 1999.
- Zhang, Y., **Chen, Q.** The noncollagenous domain 1 of type X collagen: a novel motif for trimer and higher order multimer formation without a triple helix. *J. Biol. Chem.*, 274:22409-22413, 1999.
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- Wu, Q., **Chen, Q.** Mechanoregulation of chondrocyte proliferation, maturation and hypertrophy: ion-channel dependent transduction of matrix deformation signals. *Exp. Cell Res.*, 256, 383-391, 2000.
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Ongoing Research Support

RO1 AG 14399 Chen (PI) 01/01/04-12/31/08 NIH/NIA.

Total Direct Cost: \$1,125,000

Stabilization of Matrix Structure in Mature Cartilage

The goal of this project is to analyze the mechanisms that stabilize cartilage matrix structure

Role: PI

RO1 AG17021 Chen (PI) 03/15/06-02/28/11 NIH/NIA.

Total Direct Cost: \$922,500

Biophysical Regulation of Chondrocyte Differentiation The major goals of this project are to study the effect of mechanical stress on chondrocyte properties Role:

PI

RO3 AR 052479 (Wei) 04/01/06-03/31/09 NIH/NIAMS

Total Direct Cost: \$150,000 Chemokine Regulation of Cartilage Matrix Resorption

The goal of this project is to examine the effect of chemokines on cartilage matrix degradation.

Role: Co-PI

Personal statement:

I will be happy to serve as a member of the board of directors of ICHTS. Working together with the members of ICHTS, we will facilitate communication and collaboration among members; establish networks for employment and mutual visit of members; raise recognition and awareness of the scientific accomplishment of our members in world research communities. Thank you very much for your consideration, and I look forward to serving you as a board member.



Yingzi Yang, Ph.D

Personal statement:

I would like to help in promoting the visibility of ICHTS both in China and internationally and the collaborations among members of ICHTS. Ultimately, I hope we can all benefit from being a member of ICHTS while contributing to it. One way of achieving the goals is to organize research symposiums of skeletal research so we get to know each other's research profile in depth. Another way is to have some workshops among ICHTS members when we meet at ASBMR for example, to address some issues particularly important to Chinese PIs which may include grant writing, manuscript preparation, postdoc recruitment and academic promotions.

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Education: **Ph.D., January 1996**
Department of Molecular Biology
Cornell University Graduate School of Medical Science, New York, USA

Graduate research fellow (1988-1990)
Department of Biophysics and Physiology
Fudan University

Shanghai, P. R. China

B.S. July 1988

Department of Biology
Fudan University
Shanghai, P. R. China

Postgraduate Training:

January 1996 – July 2000

Postdoctoral fellow in Dr. Andrew P. McMahon's laboratory
Department of Molecular and Cellular Biology of Harvard University
Studies of the signaling mechanisms that control vertebrate (mouse and chick) limb patterning and skeletogenesis.

March 1994 - December 1995

Graduate research fellow in Dr. Lee Niswander's laboratory

Molecular Biology program at the **Sloan-Kettering Institute**

Studies of the molecular mechanisms by which the mutual interactions of SHH, WNT and FGF4 control vertebrate limb growth and patterning.

December 1991- February 1994

Graduate research fellow in Dr. Dennis Ballinger's laboratory

Molecular Biology program at the **Sloan-Kettering Institute**.

Studies of the biological function of Calphotin, a *Drosophila* photoreceptor cell-specific calcium-binding protein, during photoreceptor cell morphogenesis.

September 1988 - July 1990

Graduate research fellow in the Laboratory of Molecular and Cellular Biology

Fudan University, P. R. China Supervised by Professor Zuyu Luo

Studies of the molecular mechanism and potential therapeutic applications of the oncosuppressive activities of parvovirus H-1.

Faculty appointment:

Feb. 2006-present

Senior Investigator

Aug. 2000-present

Tenure-track investigator

Head of the Developmental Genetics Section

Genetic Disease Research Branch

National Human Genome Research Institute

NIH

Fellowships:

1996-1999: Postdoctoral fellowship award from the Cancer Research Fund of the Damon Runyon-Walter Winchell Foundation.

1990-1995: Graduate fellowship from the Cornell University Graduate School of Medical Sciences.

Awards:

1995: **Vincent du Vigneaud Award of Excellence** from the Cornell University Graduate School of Medical Sciences.

Other academic activities:

Co-chaired the plenary oral session I at the 2005 ASBMR (American Society of Bone and Mineral Research) annual meeting.

2004-present, permanent Member, NIH grant study section: Skeletal Biology Structure and Regeneration.

2005, Panelist, Cell Biology, Genetics & Developmental Biology Section, Department of Life Science, National Natural Science Foundation of China.

2005, member on a Special Emphasis Panel to review a Program Project for NIH.

2004, Panelist, Advisory panel for the animal and evolution Development Systems Program of the National Science Foundation.

2004, Ad hoc reviewer, Cell Biology, Genetics & Developmental Biology Section, Department of Life Science, National Natural Science Foundation of China.

Asked to review manuscripts for Development Cell, Development, Journal of Biological Chemistry, Journal of Cell Biology, Molecular and Cellular Biology, Developmental Biology, Genome Research, Trends in Molecular Medicine

Publications:

Kingston Kinglun Mak, Miao-Hsueh Chen, Timothy F. Day, Pao-Tien Chuang and **Yingzi Yang** (2006). Wnt/ β -catenin signaling interacts differentially with Ihh signaling in controlling endochondral bone and synovial joint formation. **Development** (in revision).

Kobayashi T, Soegiarto DW, **Yang Y**, Lanske B, Schipani E, McMahon AP, Kronenberg HM (2005). Indian hedgehog stimulates periarticular chondrocyte differentiation to regulate growth plate length independently of PTHrP. **J Clin Invest.** **115(7):1734-42.**

Timothy F. Day, Xizhi Guo, Lisa Garrett-Beal and **Yingzi Yang** (2005). Wnt/ β -catenin signaling in Mesenchymal Progenitors Controls Osteoblast and Chondrocyte Differentiation during Vertebrate Skeletogenesis. **Dev Cell.** **8(5):739-50.** (high-lighted by a minireview in the same issue of **Dev. Cell**)

Xizhi Guo, Timothy F. Day, Xueyuan Jiang, Lisa Garrett-Beal, Lilia Topol and **Yingzi Yang** (2004). Wnt/ β -catenin signaling is sufficient and necessary for synovial joint formation. **Genes & Development, 18(19): 2404-17.** (Featured on the cover)

Yingzi Yang (2003). Wnts and wing: Wnt signaling in vertebrate limb development and muscular-skeletal morphogenesis. Review, **Birth Defects Research Part C Embryo Today.** Nov; **69: 305-317**

Lilia Topol, Xueyuan Jiang, Hosson Choi, Lisa Garrett-Beal, Peter Carolan, **Yingzi Yang** (2003). Wnt-5a inhibits the canonical Wnt signaling by promoting GSK-3 independent β -catenin degradation. **J Cell Biol.** **162(5):899-908.** (highlighted by a minireview in the same issue of **J Cell Biol**).

Yingzi Yang, Lilia Topol, Heuijung Lee, Jinglin Wu (2003). *Wnt5a* and *Wnt5b* exhibit distinct activities in coordinating chondrocyte proliferation and differentiation. **Development** **130, 1003-1015**

Mondira Kundu, Amjad Javed, Jae-pil Jeon, Alan Horner, Michael Eckhaus, Maximilian Muenke, Jane Lian, **Yingzi Yang**, Glen H. Nuckolls, Gary Stein, P. Paul Liu (2002), Cbfa1 interacts with Cbfa1 and plays a critical role in bone development, **Nature Genetics** 32(4):639-44.

Fanxin Long, Xiaoyan M. Zhang, Seth Karp, **Yingzi Yang**, and Andrew P. McMahon (2001)

Genetic manipulation of hedgehog signaling in the endochondral skeleton reveals a direct role in the regulation of chondrocyte proliferation **Development** 128: 5099-5108.

Yingzi Yang, Pascale Guillot, Yvonne Boyd, Mary F. Lyon. and Andrew P. McMahon (1998). Evidence that preaxial polydactyly in *Double Foot* mutant is due to ectopic Indian Hedgehog signaling. **Development** 125(16): 3123-3132.

Yang Y, Drossopoulou G, Chuang P-T, Duprez D, Marti E, Bumcrot D, Vargesson N, Clarke J, Niswander L, McMahon A and Tickle C (1997). Relationship between dose, distance and time in Sonic Hedgehog-mediated regulation of anteroposterior polarity in the chick limb. **Development** 124 (21): 4393-4404.

Yingzi Yang and Lee Niswander (1995). Interaction between the signaling molecules WNT and SHH during vertebrate limb development: the role of dorsal ectoderm signals in anteroposterior patterning. **Cell** 80, 939-947. (high-lighted by news and views in **Nature**)

Yingzi Yang and Dennis Ballinger (1994). Mutations in *calphotin*, the gene encoding a *Drosophila* photoreceptor cell-specific calcium binding protein, reveal roles in cellular morphogenesis and survival. **Genetics** 138: 413-421.

Zuyu Luo and **Yingzi Yang** (1990). Prospect of detection of physico-chemical mutagens by parvoviruses/human cells system in Carcinogenesis, Teratogenesis and Mutagenesis. **Chinese Journal of Environmental Mutagens** Vol. 2, No. 1, 53-56.



Oscar Kuang-Sheng Lee, MD, PhD

PERSONAL DETAILS

SURNAME: Lee **FORENAME:** Oscar
MIDDLE NAME: Kuang-Sheng **SEX:** Male
DATE OF BIRTH: 11 May 1968
NATIONALITY: Taiwan, ROC

WORK ADDRESS

Department of Orthopedics and Traumatology,
Taipei Veterans General Hospital
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Current Position: Attending Physician and Assistant Professor

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II. AFFILIATED APPOINTMENTS

Honorary Senior Research Fellow,
Institute of Orthopaedics and Musculo-skeletal Science, University College London, UK
Adjunct Assistant Professor,
Faculty of Life Science and Faculty of Medicine, National Yang-Ming University, Taiwan
Jointly Appointed Assistant Research Scientist,
Stem Cell Research Center, National Health Research Institutes, Taiwan

III. EDUCATION BACKGROUND

1999 ~ 2002 PhD, University College London, United Kingdom
1998 ~ 1999 MSc, University College London, United Kingdom
1986 ~ 1993 MD, School of Medicine, National Yang-Ming University, Taiwan

IV. PREVIOUS APPOINTMENTS

2003/01~ 2005/06 Chairman, Dept of Orthopaedic Surgery, Taitung Veterans Hospital
2002/10~ 2002/12 Attending Physician, Dept of Orthopaedic. Surgery,
Taitung Veterans Hospital
2001/12 ~ 2002/10 Clinical Fellow in Orthopaedic Oncology,
Taipei Veterans General Hospital
1998/10 ~ 2001/11 Clinical Visiting Fellow, Royal National Orthopaedic Hospital, London
1998/06 ~ 1998/09 Chief Resident, Department of Orthopaedics and Traumatology,
Taipei Veterans General Hospital

1993/09 ~ 1998/05 Resident, Department of Orthopaedics and Traumatology,
Taipei Veterans General Hospital

V. AWARDS AND HONORS

Government Scholarship for Studying Abroad, Department of Education, Taiwan (1998)
Overseas Research Student Award, CVCP, Department of Education, UK (1999-2001)
New Investigator Recognition Award, Orthopedic Research Society (2004)

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Yanfei Linda Ma, MD

Researcher Adviser
Eli Lilly Corporate center,
Division of Endocrine,
Musculoskeletal Research,
Indianapolis, IN , 46285, USA

Work Experience:

Research Advisor	Eli Lilly & Com	2005-present
Principle Research Scientist	Eli Lilly & Com	2002 - 2005
Senior biologist	Eli Lilly & Com	1998 –2001
Assist. Professor	Radiobiology Div, U of Utah	1995 –1998
Postdoctoral Fellow	University of Utah	1991- 1995
Chief resident	Internal Medicine, Hospital of State Farms, Guangdong, China	1988-1991
Resident	Internal Medicine, Hospital of Zhanjiang Medical School, China	1982-1985

Education:

M.D.	1982	Zhanjiang Medical College, China	Medicine
M.S	1988	Sun Yat-Sen U. of Medicine	Cardiovascular disease

Society & Professional Organization Memberships:

	Inclusive Dates
American Society for Bone and Mineral Research (ASBMR)	92-present
International Bone Morphometry Society	91-present
International Chinese Hard Tissue Society (ICHTS)	96-present
European Calcified Tissue Society (ECTS)	95-2004
International Bone and Mineral Society (IBMS)	93-present
National Society for Histotechnology	93-present

Track Record:

- 88 peer review publications, 4 invited chapters/reviews, 140+ abstracts.
- Regular reviewer for Endocrinology, J of Endocrinology, JPET, Bone and Mineral Research, Bone, J Musculoskeletal Neuronal Inter, J of Histotechnology, J of Histopathology, Metabolism, Calcified Tissue International, Pharmacology Research, and invited grand reviewer for Science Foundation.

Last 5 publications:

1. Yanfei L Ma, Henry U Bryant, Qingqiang Zeng, Alen Schmidt, Jennifer Hoover, Harlan W Cole, Wei Yao, Webster S S Jee and Masahiko Sato. New bone formation with teriparatide (hPTH (1-34)) is not retarded by long-term pretreatment with alendronate, estrogen or raloxifene in ovariectomized rats. Endocrinology 144:2008-2015, 2003.

2. Y. L. Ma, H. U. Bryant, Q. Q. Zeng, A. Schmidt, S. Smith, W. S. S. Jee and M. Sato Raloxifene and Teriparatide (hPTH 1-34) Have Complementary Interaction in the Osteopenic Skeleton of Ovariectomized Rats. Japanese Journal of Bone and Mineral metabolism. 23:62-68 Suppl, 2005.
3. Yanfei L Ma, Qingqiang Zeng, David W. Donley, Louis-George Ste. Marie, J. Christopher Gallagher, Gail P. Dalsky, Rob marcus, Erik Fink Eriksen Teriparatide increases new bone formation on modeling and remodeling osteons and enhances IGF-II expression in postmenopausal women with osteoporosis. JBMR. June 2006
4. Yanfei L Ma, Berket Khalifa, Rajesh S. Savkur, Ying Yee, Jianfen Lu, George Zheng, Srinivasan Chandrasekhar, Xiao-Peng Yu, Stephen Itturia, Thomas P. Burris, William W. Chin and Sunil Nagpal Identification and Characterization of Less Calcemic, Tissue-Selective, Non-Secosteroidal Vitamin D Receptor Modulators for Psoriasis. JCI. June 2006
5. Nalini H. Kulkarni, Jude E. Onyia, QingQiang Zeng, Min Liu, Charles A. Frolik, David L. Halladay , Thomas Engler, Tao Wei, Aidas Kriauciunas, Thomas J. Martin, Masahiko Sato, Henry U. Bryant, Yanfei L. Ma. An Orally Bioavailable GSK-3 α/β Dual Inhibitor Increases Markers of Cellular Differentiation *In Vitro* and Bone Mass *In Vivo* JBMR. June 2006

Personal statement: It is my great honor to serve the International Chinese Hard Tissue Society as the board of director. In fact, I have served as one of the first turn board directors for ICHTS 8 years ago. I am still charity from that experience and willing to do my best to serve the society under the organization leaders and work with other members. Having the privilege of board director, I would suggest our organization focus on the following points: 1. Strengthen the excellent of the society by recruiting more members; 2. Facilitate the communication and collaborative work among the members to further promote the scientific activities and professional growth; 3. Share the learning experience, specifically in cross-cultural communications, interpersonal skills and community recognition, within the members and advocate each other.

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