

PROFESSOR MINGHAO ZHENG

RESIDENTIAL ADDRESS	2 Kingsland Avenue, City Beach, Western Australia 6015
BUSINESS ADDRESS	Orthopaedic Research Laboratory, Medical School The University of Western Australia Level 2, M Block, Queen Elizabeth II Medical Centre Nedlands, Western Australia 6009
TELEPHONE	+61 8 9385 9812 (Res) +61 8 6457 4050 (Bus) +61 407 982 570 (Mob)
EMAIL	minghao.zheng@uwa.edu.au
DATE OF BIRTH	25 th May 1963
MARITAL STATUS	Married, with two children
CITIZENSHIP	Australian

EDUCATION AND QUALIFICATIONS

	Fellow of The Royal Society of Medicine
	Fellow of International Orthopaedic Research (FIOR - currently one of only two Fellows appointed in Australia)
11/11/2005	Fellow of Royal College of Pathologists of Australasia (FRCPA)
22/11/2002	Fellow of Royal College of Pathologists, UK (FRCPath)
05/04/2000	Doctor of Medicine (MD) The University of Western Australia
25/08/1994	Doctorate of Philosophy (PhD) The University of Western Australia <i>Thesis entitled: 'Biological and Biochemical Investigations of Ontogeny, Function and Regulation of Osteoclasts'</i>
1987	Master of Medicine in Pathology Sun Yat-Sen University of Medical Sciences, Guangzhou, China
1983	Bachelor of Medicine Shantou University, Guangdong, China

CURRENT APPOINTMENTS

02/11/1999 -	Professor and Director of Orthopaedic Research Medical School, Division of Surgery The University of Western Australia
2006 -	Co-founder and Consultant Chief Scientific Officer Orthocell Ltd (ASX:OCC) Murdoch, Western Australia
2009 -	Member of Western Australia-Zhejiang Exchange Committee Department of State Development, Government of Western Australia
2018 -	Chair of Scientific Advisory Committee State Key Orthopaedic Research Laboratories, Sir Run Run Shaw Hospital Zhejiang University, Hangzhou, China

2014 -	Committee Member Hong Kong Government Research Grants Council
2000 -	Regular Member NHMRC Grant Review Panels

PREVIOUS APPOINTMENTS

10/08/2010 – 30/6/2021	Associate Dean (International) Faculty of Health and Medical Sciences The University of Western Australia
01/09/2018 – 28/02/2019	Acting Pro Vice Chancellor International The University of Western Australia
2017 - 2019	Board Member of Stakeholder Committee Stem Cells Australia, Melbourne
Aug 2012 - Sept 2014	Chair of Committee Premier's Award for Excellence in Public Sector Management Western Australia in Asia Category, Government of Western Australia
2008 - Mar 2011	Cheung Kong Lecturing Professor First Affiliated Hospital Zhejiang University, Hangzhou, China
Jan 2004 - Dec 2005	Member of Advisory Committee on Biologicals Therapeutic Goods Administration (TGA) Department of Health, Government of Australia
Jan 2000 - May 2005	Executive Director and Chief Scientific Officer Verigen Australia and Verigen Germany
June 2005 – Dec 2007	Medical and Scientific Consultant Genzyme Corp, Boston, USA
Sept 2000 - Nov 2003	Treasurer/Secretary Australian & New Zealand Orthopaedic Research Society
July 1996 – Sept 1999	Director of Orthopaedic Research (Senior Lecturer Level) Department of Surgery (Orthopaedics) The University of Western Australia
Dec 1993 – June 1996	Director of Orthopaedic Research (Lecturer Level) Department of Surgery (Orthopaedics) The University of Western Australia
Apr 1993 – Nov 1993	Visiting Doctor Department of Pathology, Institute of Orthopaedic Research Royal National Orthopaedic Hospital, Stanmore, UK
Jan 1993 – Mar 1993	Research Fellow Departments of Pathology and Surgery (Orthopaedics) The University of Western Australia
June 1992 – Dec 1992	Senior Associate Scientist Genetics Institute, Cambridge MA, USA
Jan 1990 – May 1992	Research Fellow, Department of Surgery (Orthopaedics) The University of Western Australia, under the supervision of Professor J M Papadimitriou and Mr D J Wood

May 1989 – Dec 1989	Research Fellow, Department of Pathology The University of Western Australia, under the supervision of Professor J M Papadimitriou and Professor G C Nicholson
May 1988 – Apr 1989	Visiting Doctor, Department of Pathology The University of Western Australia Sir Charles Gairdner Hospital, under the supervision of Professor J M Papadimitriou
Dec 1985 – Apr 1988	Lecturer/Histopathologist, Department of Pathology Sun Yat-Sen University of Medical Sciences Guangzhou, China
Sept 1987 – Apr 1988	Consultant Histopathologist, Department of Pathology The Huizhou People's Hospital Huizhou, China
Dec 1984 – Apr 1988	Tutor and Lecturer, Department of Pathology Sun Yat-Sen University of Medical Sciences Guangzhou, China

RESEARCH CITATIONS AND H INDEX *At July 2021*

Total citations: 8,287
H index: 51

RESEARCH EXPERTISE

Histopathology of bone and cartilage diseases
Pre-clinical evaluation of drugs and medical devices
Good Manufacturing Practices for biological products and stem cell culture
Population-based research into orthopaedic-related disorders
Audit of biological therapies
Confocal microscopy
Electron microscopy
Molecular biology techniques
Clinical trials of medical devices and cellular therapy in orthopaedics

ADVISOR/ASSESSOR/REVIEWER

Cheung-Kong Scholar Foundation, Ministry of Education, China
Chinese National Science Foundation, China
Hong Kong University Grant Committee
Wellcome Trust, UK
Medical Research Council, UK
Max Planck Institute, Germany
Singapore Biotechnology Board
Polish Academy of Sciences
National Institutes of Health (NIH), USA
National Health & Medical Research Council (NHMRC), Australia
Australian Research Council
Numerous international journals in Pathology and Biochemistry
Numerous hospital-based research foundations in Australia and Asia (ad hoc)

SUPERVISION OF POSTGRADUATE STUDENTS

Completed

2021	PhD. Mr A. Beck. Supervised by: Prof Zheng, Prof Wood PhD. Ms L. Chen. Supervised by: Prof Zheng, Prof Wood
2018	PhD. Dr A. Chan. Supervised by: A/Prof Pavlos, Prof Zheng PhD. Dr J. Fitzpatrick. Supervised by: Prof Zheng, A/Prof Bulsara, Dr McCrory
2017	PhD. Dr J. Gao. Supervised by: Prof Zheng, Dr Cheng, A/Prof Pavlos
2016	PhD. Dr X. Zhu. Supervised by: Dr Cheng, Prof Zheng
2015	PhD. Dr G. Li. Supervised by: Dr Cheng, A/Prof Pavlos, Dr Zhang, Prof Zheng PhD. Dr H. Ying. Supervised by: Prof Zheng, A/Prof Pavlos PhD. Dr Z. Wang. Supervised by: Prof Prince, Prof Zheng
2014	PhD. Dr Y. Shen. Supervised by: Prof Eikelboom, Dr Marano, Prof Atlas, Prof Zheng PhD. Dr T. Wang. Supervised by: A/Prof Gardiner, Prof Zheng, Prof Kirk PhD. Dr W. Cundawan. Supervised by: Prof Xu, Prof Zheng, A/Prof Pavlos
2013	PhD. Dr P. Ng. Supervised by: Prof Xu, A/Prof Pavlos, Prof Zheng PhD. Dr A. Qin. Supervised by: Prof Xu, Prof Zheng, Prof Dai PhD. Dr K. Mackie. Supervised by: Prof Zheng, A/Prof Bulsara PhD. Dr Q. Liu. Supervised by: Prof Zheng, Prof Xu
2012	PhD. Dr E. Khor. Supervised by: Prof Zheng, Prof Xu
2011	PhD. Dr J. Kular. Supervised by: Prof Zheng, Prof Xu PhD. Dr J. Chen. Supervised by: Prof Zheng, CIP Wang
2010	Masters. Mr C. Leong. Supervised by: Prof Xu, Prof Zheng, A/Prof Pavlos PhD. Dr C. Seed. Supervised by: Prof Zheng, Dr Keller PhD. Dr S. Ang. Supervised by: Prof Zheng, Prof Xu PhD. Dr F. Yao. Supervised by: Prof Zheng, Prof Wood
2009	PhD. Dr S. Chim. Supervised by: Prof Zheng, Prof Xu PhD. Dr Y. Qian. Supervised by: Prof Zheng, Prof Xu Masters. Mr B. Wu. Supervised by: Prof Zheng, Prof Xu PhD. Dr H. Feng. Supervised by: Prof Xu, Prof Zheng
2008	PhD. Dr C. Willers. Supervised by: A/Prof Pavlos, Prof Zheng, Prof Wood PhD. Dr T. Davey. Supervised by: Prof Zheng, Prof Xu PhD. Dr T.S. Cheng. Supervised by: Prof Zheng, Prof Xu
2007	PhD. Dr C. Jones. Supervised by: Prof Zheng, Prof Kirk PhD. Dr T.P. Wang. Supervised by: Prof Xu, Prof Zheng PhD. Dr Z. Lin. Supervised by: Prof Grodzinsky, Prof Xu, Prof Zheng
2006	Masters. Mr M. Rong. Supervised by: Prof Zheng, Prof Xu PhD. Dr K. Yip. Supervised by: Prof Xu, Prof Zheng
2005	Masters. Dr C. Willers. Supervised by: Prof Zheng
2004	Masters. Mr T. Dela Rosa. Supervised by: CIP Wang, Prof Zheng PhD. A/Prof N. Pavlos. Supervised by: E/Prof Papadimitriou, Prof Xu, Prof Zheng PhD. Dr T. Phan. Supervised by: Prof Xu, Prof Zheng Masters. Dr J. Chen. Supervised by: CIP Wang, Prof Zheng
2003	Masters. Dr H. Feng. Supervised by: Prof Xu, Prof Zheng Masters. Miss J. Tan. Supervised by: E/Prof Papadimitriou, Prof Xu, Prof Zheng Masters. Ms A. Millar. Supervised by: Prof Zheng, E/Prof Papadimitriou, Prof Xu Masters. Dr I.C. Si. Supervised by: Prof Xu, Prof Zheng
2000	PhD. Dr M. Xu. Supervised by: Prof Zheng, Prof Prince
1999	Masters. Dr W. Huang. Supervised by: Prof Zheng

1998	PhD. Dr T. Lau. Supervised by: Prof Wood, Prof Zheng
<u>Current</u>	PhD. Mr P. Chen. Supervised by: Prof Zheng, Dr Wang PhD. Mr J. Yuan. Supervised by: Prof Zheng, Dr Gao, A/Prof Meloni PhD. Mr D. Liu. Supervised by: Prof Zheng, Dr Gao PhD. Mr Z.M. Chen. Supervised by: Prof Zheng, Prof Wood, Prof Mitchell Masters. Mr M. Gao. Supervised by: Prof Zheng, Dr Gao PhD. Mr B. Shiroud Heidari. Supervised by: A/Prof Doyle, Prof Zheng, Dr Juan Pardo PhD. Ms J. Lu. Supervised by: Prof Wood, Prof Zheng, A/Prof Ingley, Dr Grove PhD. Mr B. Allan. Supervised by: Prof Zheng, Prof Mian, A/Prof Goonewardene, PhD. Mr J. Li. Supervised by: A/Prof Kennedy Prof Zheng, Dr Mowla Masters. Mr Y. Zong. Supervised by: Prof Zheng, A/Prof Gao

PhD THESIS EXAMINER

University of Adelaide
University of Sydney
University of Queensland
University of Melbourne
Curtin University of Technology
University of Auckland, New Zealand
Chinese University of Hong Kong
National University of Singapore

AWARDS AND HONOURS

Finalist, WA Innovator of the Year, Emerging Category 2019
Finalist, WA Industry & Export Awards 2019
Finalist, WA Industry & Export Awards 2018
University of Western Australia Vice-Chancellor's Senior Research Award 2016
Innovation Excellence Award, WA Industry and Export Awards (to Orthocell and Prof Zheng as the inventor) 2016
Overseas Chinese Contribution Award, Chinese Orthopaedic Association, for outstanding orthopaedic research 2016
Premier's Award in recognition of contributions and outstanding commitment to the Premier's Awards judging process 2013
Genzyme Award for leadership, commitment and dedication to the advancement of MACI 2007
Honorary Professor, Shantou University, China 2000
Honorary Professor, Department of Pathology, Sun Yat-Sen University of Medical Sciences, China 1997
International Bone and Mineral Society Travel Award 1995
Nuffield Medical Fellow 1994 (declined due to citizenship requirement)
Athelstan & Amy Saw Medical Fellowship, Australia 1993
Wyn Spence Fellowship in Medical Research, Australia 1992
Fremantle Hospital Research Fellowship, Australia 1991
Sir Charles Gairdner Hospital Research Fellowship, Australia 1990
Middle-Youth Scientist Prize, Guangzhou, China 1987

EDITORIAL BOARDS AND PEER REVIEW PANELS

Member

Faculty 1000 Prime

Associate Editor

Stem Cell Research and Therapy

Journal of Translational Orthopaedic Research

Editorial Board Member

Journal of Musculoskeletal Research

International Journal of Biotechnology

MEMBERSHIPS OF PROFESSIONAL SOCIETIES

Life Fellow, Asia Pacific Orthopaedic Association

American Association for the Advancement of Science

American Society for Bone and Mineral Research

Australian and New Zealand Society for Bone & Mineral Research

Australian and New Zealand Orthopaedic Research Society

International Bone and Mineral Society

International Cartilage Repair Society

The Royal College of Pathologists

The Royal College of Pathologists of Australasia

International Society for Cellular Therapy

The Royal Society of Medicine

GRANTS AWARDED *In excess of \$150 million has been awarded.*

1. Dr Tao Wang, Professor Ming Zheng 2019, 'Project - PDK1/AKT protein kinase activation is essential to maintain tendon integrity under mechanical loading', WA Department of Health Merit Awards. AUD75,000
2. Professor David Lloyd, Professor Randy Bindra, Professor Minghao Zheng 2018, 'Development of a 3D printed graft for surgical repair of the scapholunate interosseous wrist ligament (SLIL)' Griffith University ex- MTP-IIGC, Australia AUD 850,000
3. Professor Alastair Stewart, Professor Kevin Pflieger, Professor Nicolas Voelcker, Associate Professor Alice Pebay, Associate Professor Mirella Dottori, Professor Peter Lee, Dr Roey Elnathan, Associate Professor Andrea O'Connor, Associate Professor Jennifer Rodger, Associate Professor Barry Doyle, Associate Professor Brendan Kennedy, Associate Professor Julian Heng, Professor Tim Sercombe, Professor Ming Zheng, Professor Thierry Volery 2017, 'ARC Training Centre for Personalised Therapeutics Technologies', University of Melbourne ex ARC Industrial Transformation Program Industrial Transformation Training. ARC AUD 2.5M
4. Professor David Lloyd, Professor Ming Zheng, Professor Rod Barrett, Professor Jillianne Cook, Associate Professor Daniel James, Dr Thor Besier 2016, 'Intelligent training (iTraining) for the human Achilles tendon [ARC Funds]', Griffith University ex ARC Linkage Projects. AUD750,000
5. Professor Ming Zheng, Clinical Professor Allan Wang 2017, 'Defining a Randomised, Controlled Study of Ortho ATI® vs Corticosteroid Injection for Treatment of Rotator Cuff Tendinopathy and Tear', Orthocell Pty Ltd. AUD150,000
6. Professor Ming Zheng 2017, 'MHRIF Round 21 - Ming-Hao Zheng', WA Department of Health: Medical and Health Research Infrastructure Fund. AUD22,330
7. Professor M Zheng 2016, 'Entrepreneur's Program - Histology of Laser Ablated Bone Tissue', Department of Industry Innovation and Science - Ausindustry: Innovation Connections. AUD50,000

8. Professor M Zheng 2016, 'Entrepreneur's Program - Histology of Laser Ablated Bone Tissue', Daniel Fick Pty Ltd.
9. Professor Ming Zheng 2016, 'MHRIF Round 20 - Ming Hao Zheng', Medical & Health Research Infrastructure Fund. AUD45,000
10. Professor Ming Zheng 2015, 'MHRIF Round 19 - Minghao Zheng', Medical & Health Research Infrastructure Fund. AUD35,000
11. Associate Professor Nathan Pavlos, Professor Ming Zheng, Dr Tak Sum Cheng 2014, 'The role of Sorting Nexin 27 in cargo-trafficking during skeletal homeostasis', NHMRC Project Grants. AUD650,000
12. Associate Professor Nathan Pavlos, Professor Ming Zheng, Dr Tak Sum Cheng 2014, 'Merit Award - Projects - Elucidating the Role of Sorting Nexins in Skeletal Development and Disease', WA Department of Health Merit Awards. AUD50,000
13. Professor Ming Zheng 2014, 'MHRIF Round 18 - Ming Hao Zheng', Medical & Health Research Infrastructure Fund. AUD25,000
14. Dr Pilar Blancafort, Professor Nancy Allbritton, Associate Professor Nathan Pavlos, Professor David Wood, Professor Ming Zheng 2013, 'Bone on a chip: Novel microfluidics technology to study cancer metastasis in the bone.', UWA Research Collaboration Awards. AUD40,000
15. Professor Ming Zheng 2013, 'MHRIF Round 17 - Ming Hao Zheng', Medical & Health Research Infrastructure Fund. AUD25,000
16. Professor Ming Zheng 2012, 'The Role of SPARC in Tendon Homeostasis and Tendinopathy', NHMRC Project Grants. AUD650,000
17. Professor Ming Zheng, Associate Professor Nathan Pavlos, Dr Tak Sum Cheng 2012, 'Molecular Characterization of V-ATPase V0 Domain Subunits e1 and e2 in Osteoclast', NHMRC Project Grants. AUD560,000
18. Professor Ming Zheng 2012, 'Round 16 - Zheng', Medical & Health Research Infrastructure Fund. AUD22,000
19. Associate Professor Nathan Pavlos, Winthrop Professor Jiake Xu, Professor Ming Zheng 2011, 'Functional Dissection of Myo 1b in Bone Resorbing Osteoclasts', NHMRC Project Grants. AUD450,000
20. Professor Ming Zheng 2011, 'Molecular Characterisation of V-ATPase V0 Domain Subunit e1 and e2 in Osteoclast', UWA Research Collaboration Awards. AUD25,000
21. Professor Ming Zheng 2011, 'Medical & Health Research Infrastructure Fund - Round 15 - Zheng', Medical & Health Research Infrastructure Fund. AUD20,000
22. Winthrop Professor Jiake Xu, Associate Professor Nathan Pavlos, Professor Ming Zheng 2010, 'Molecular Mechanisms & Therapeutic Effects of Novel Parthenolide Analogs on Osteolysis', NHMRC Project Grants. AUD470,000
23. Professor David Lloyd, Professor David Smith, Winthrop Professor Jiake Xu, Associate Professor Bruce Gardiner, Professor Brett Kirk, Assistant Professor Jonas Rubenson, Professor Ming Zheng 2010, 'Bioengineered Bioscaffolds for Achilles Tendinopathy Treatment', ARC Linkage Projects. AUD1.4M
24. Professor Ming Zheng 2010, 'Medical & Health Research Infrastructure Fund - Round 14 - Zheng', Medical & Health Research Infrastructure Fund. AUD20,000
25. Winthrop Professor Jiake Xu, Professor Ming Zheng 2009, 'The Role of CHKB in Osteoclastic Bone Resorption & Bone Homeostasis', NHMRC Project Grants. AUD600,000
26. Professor David Sampson, Associate Professor Peta Clode, Professor Shaun Collin, Professor Ian Constable, Professor Mariapia Degli-Esposti, Professor Sarah Dunlop, Professor Svend Klinken, Professor Nigel Laing, Professor Peter Leedman, Professor Barry Marshall, Professor Paul McMenamin, Professor Daniel Murphy, Dr Jacqueline Phillips, Associate Professor Paul Rigby, Dr Matthew Sharman, Dr Philip Stumbles, Professor Timothy St Pierre, Dr Katherine Trinajstić, Dr David Wacey, Winthrop Professor Paul Waring, Professor Charles Watson,

- Professor George Yeoh, Professor Ming Zheng, Dr Melanie Ziman, Dr John Mamo, Adjunct Associate Professor Roger Price, Dr Nicholas Gottardo, Professor Ursula Kees 2009, 'In-Vivo Multispectral and X-ray MicroCT Imaging - Founding a Western Australian Small Animal Imaging Core Facility', ARC Linkage Infrastructure Equipment Facilities. AUD2.4M
27. Professor Ming Zheng 2009, 'Medical & Health Research Infrastructure Fund - Round 13 - Zheng', Medical & Health Research Infrastructure Fund. AUD24,000
 28. Professor Ming Zheng 2009, 'Autologous Cell Therapy for Cartilage and Tendon Repair', UWA Research Collaboration Awards. AUD20,000
 29. Professor Ming Zheng, Winthrop Professor Jiake Xu 2008, 'The Interaction of Ac45 with V-ATPase and its Function in Osteoclastic Bone Resorption', NHMRC Project Grants. AUD450,000
 30. Winthrop Professor Jiake Xu, Professor Ming Zheng 2008, 'The Role of the Secreted SVS7 Protein in Bone Mass', NHMRC Project Grants. AUD600,000
 31. Winthrop Professor Jiake Xu, Professor Ming Zheng 2007, 'Regulation of Osteoclast Differentiation and Function by the PKC Pathway', NHMRC Project Grants. AUD500,000
 32. Emeritus Professor Craig Atkins, Dr Boris Baer, Dr Olga Babourina, Associate Professor Peta Clode, Dr Kingsley Dixon, Professor Sarah Dunlop, Assistant Professor Holger Eubel, Professor Luis Filgueira, Associate Professor Matthew Kilburn, Professor Svend Klinken, Professor John Kuo, Professor Nigel Laing, Professor Peter Leedman, Dr Martha Ludwig, Professor Andrew Millar, Associate Professor Fiona Pixley, Associate Professor Martin Saunders, Professor Kadambot Siddique, Emeritus Professor Krishnapillai Sivasithamparam, Professor Timothy St Pierre, Winthrop Professor James Whelan, Professor Ming Zheng, Dr Melanie Ziman 2007, 'A Cryopreservation Facility for Western Australia', ARC Linkage Infrastructure Equipment Facilities. AUD1.5M
 33. Professor Ming Zheng 2007, 'MHRIF Round 11 - Zheng', Medical & Health Research Infrastructure Fund.
 34. Professor Ming Zheng, Winthrop Professor Jiake Xu, Associate Professor Nathan Pavlos 2006, '458765 - Interaction of Rab3D and Tctex-1 is Required for Bone Resorption Through the Regulation of Post TGN Vesicle Trafficking', NHMRC Project Grants.
 35. Professor Ming Zheng 2006, 'Zheng - Medical and Health Research Infrastructure Fund (MHRIF) - Round 9', Medical & Health Research Infrastructure Fund.
 36. Professor Ming Zheng 2006, 'MHRIF Round 10 - Zheng', Medical & Health Research Infrastructure Fund.
 37. Winthrop Prof Jiake Xu, Professor Ming Zheng 2005, '404065: Osteoclast Proton Pump', NHMRC Project Grants.
 38. Winthrop Professor Jiake Xu, Professor Ming Zheng 2005, 'In Vivo Effect of Osteoclast Derived Osteoblastic Factor (ODOF) in Bone Formation', Caldeon Pty Ltd.
 39. Emeritus Professor Alan Harvey, Dr Kathryn Fuller, Professor Ming Zheng, Winthrop Professor Jiake Xu, Associate Professor Nathan Pavlos, Dr J Bentall, Dr Bryan Ward, Associate Professor Jennifer Rodger, Mr Guy Ben-Ary, Ms Elizabeth Dallimore, Emeritus Professor Donald Robertson, Dr Giles Plant 2005, 'NHMRC Equipment Grant: Fluorescent Attachment for the PALM Laser Microdissector', NHMRC Equipment Grants.
 40. Professor Ming Zheng, Winthrop Professor Jiake Xu, Dr Lin Huang 2004, 'ID353673: The Role of P62/A170 in Pathological Bone Destruction.', NHMRC Project Grants.
 41. Winthrop Professor Jiake Xu, Professor Ming Zheng 2004, 'The Role of Protein Kinase C α in RANKL-activated Osteoclastogenesis.', UWA Research Grants Scheme.
 42. Winthrop Professor Jiake Xu, Mrs Angela Carrello, Professor Ming Zheng 2002, 'The Role of V-ATPase Accessory Subunit AC45 in Osteoclasts', NHMRC Project Grants.
 43. Professor Richard Prince, Professor David Wood, Professor Ming Zheng, Adjunct Associate Professor Roger Price 2002, 'Genomics in Bone & Cartilage Disorders', Harry Perkins Institute of Medical Research (WAIMR).

44. Professor David Wood, Professor Ming Zheng, Professor Timothy Ackland 2002, 'Biological, Functional and Radiographic Evaluation of Autologous Chondrocyte Implantation', NHMRC Project Grants.
45. Professor Ming Zheng, Mr Hai Bui 2002, 'Effect of Caltrin on Osteoclastogenesis & Bone Resorption', Harry Perkins Institute of Medical Research (WAIMR).
46. Professor Ming Zheng 2001, 'MHRIF - NIRISA - Zheng', Medical & Health Research Infrastructure Fund.
47. Professor Ming Zheng, Winthrop Professor Jiakexu 2001, 'Structural and functional analyses of rat receptor activator of NF-kb ligand', NHMRC Project Grants.
48. Professor Ming Zheng, Professor David Wood 2000, 'Studies of giant cell tumours of bone', Medical Research Fund of WA.
49. Professor Brett Kirk, Professor David Wood, Professor Karol Miller, Professor Ming Zheng 2000, 'The development of confocal endoscopy methods for the diagnosis, prognosis and study of arthritic conditions', ARC SPIRT.
50. Professor Ming Zheng 2000, 'Vesicle transport in osteoclasts requires interactions of Rab3D and Tctex-1', Medical Research Fund of WA.
51. Professor Ming Zheng, Dr Terry Robertson, Professor Barry Marshall 1999, 'Replacement of scanning electron microscopy', Lotteries Commission Medical Research Program.
52. Professor David Wood, Professor Ming Zheng 1999, 'Toward understanding the molecular events of histogenesis and biological behaviour of giant cell tumour of bone', Australian Orthopaedic Association.
53. Professor Ming Zheng 1999, 'Microtubule mediated vesicle transport requires interaction of Rab3D and Tctex-1', ARC Small Grants.
54. Professor Ming Zheng 1998, 'The role of Rab3D and its binding protein in osteoclastic bone resorption', NHMRC Project Grants.
55. Professor M Zheng 1998, 'Mechanism of exocytosis in bone resorbing osteoclasts', Medical Research Fund of WA.
56. A/Prof M Sparrow, Professor Ming Zheng, Professor Alan Everett, Dr D Coombe 1996, 'Upgrade of the confocal microscope facility', NHMRC Equipment Grants.
57. Professor Ming Zheng, Professor David Wood 1995, 'Herbimycin A suppresses bone destruction in experimental osteolytic bone metastases', Cancer Council of Western Australia.

COMMERCIALISATION AND PATENTS

Founder of Orthocell

As an inventor and major shareholder, Professor Zheng established the first orthopaedic regenerative medicine company, Orthocell Ltd, in Australia in 2006. Orthocell is a publicly listed company with the Australia Stock Exchange (ASX:OCC). Orthocell has developed partnerships with a number of universities in Australia for MTP Connect and ARC Linkage research programs.

Co-Founder of Captix Biomedical

Professor Zheng is co-founder of this private company established in 2017 with a focus on development of beta cell regeneration for treatment of Type I Diabetes. The Company has provided funding to academic institutions in Australia for collaborative research.

A Method Of Producing Native Components, Such As Growth Factors Or Extracellular Matrix Proteins, Through Cell Culturing Of Tissue Samples For Tissue Repair			
GH Ref.	Official No.	Case Status	Country
P104657.DE	DE602007049891.0	Validated	Germany
P104657.EP	2076589	EP Granted	European Patent Office
P104657.ES	2076589	Validated	Spain
P104657.FR	2076589	Validated	France
P104657.GB	2076589	Validated	United Kingdom
P104657.IT	502017000053704	Validated	Italy
P104657.US	9220803	Renewal Purposes Only	United States of America
P104657.US.1	9889233	Granted	United States of America
A Medical Procedure Kit and A Related Method (PCT/AU2018/050558)			
GH Ref.	Official No.	Case Status	Country
P105494.AU.1	2018280341	Application filed	Australia
P105494.CA	PCT/AU2018/050558	Application filed	Canada
P105494.EP	PCT/AU2018/050558	Filing Instructions Sent to Associate	European Patent Office
P105494.JP	6380868	Granted	Japan
P105494.PCT	PCT/AU2018/050558	Int'l Search Report & Written Opinion Received	Patent Cooperation Treaty
P105494.US	16/613758	Application filed	United States of America
Artificial Periosteum (PCT/AU2019/050984)			
GH Ref.	Official No.	Case Status	Country
P106650.PCT	PCT/AU2019/050984	Int'l Search Report & Written Opinion Received	Patent Cooperation Treaty
Nanoparticle-Coated Collagen Implant (PCT/AU2019/050985)			
GH Ref.	Official No.	Case Status	Country
P108440.PCT	PCT/AU2019/050985	Int'l Search Report & Written Opinion Received	Patent Cooperation Treaty
Tenocyte Cell Culturing Method (PCT/AU2007/000362)			
GH Ref.	Official No.	Case Status	Country
P60242.AU.1	2007229273	Granted	Australia
P60242.CA	2641063	Granted	Canada
P60242.CH	2004805	Validated	Switzerland
P60242.CN.1	ZL 201210135419.9	Granted	China
P60242.DE	2004805	Validated	Germany
P60242.EP	2004805	EP Granted	European Patent Office
P60242.ES	E07718609	Validated	Spain
P60242.FR	2004805	Validated	France
P60242.GB	2004805	Validated	United Kingdom
P60242.HK	1179299	Granted	Hong Kong
P60242.IT	502018000012395	Validated	Italy
P60242.NZ	571913	Granted	New Zealand
P60242.SE	2004805	Validated	Sweden
P60242.SG	146284	Granted	Singapore
P60242.US	7985408	Granted	United States of America
Tenocyte Containing Bioscaffolds (PCT/AU2008/000583)			
GH Ref.	Official No.	Case Status	Country
P75789.AU.2	2008241379	Granted	Australia
P75789.CA	2685146	Granted	Canada
P75789.CH	2150281	Validated	Switzerland
P75789.CN	ZL200880021481.7	Granted	China
P75789.DE	2150281	Validated	Germany
P75789.EP	2150281	EP Granted	European Patent Office
P75789.ES	E08733409	Validated	Spain
P75789.FR	2150281	Validated	France
P75789.GB	2150281	Validated	United Kingdom
P75789.IT	502018000020252	Validated	Italy
P75789.NZ	580786	Granted	New Zealand
P75789.SE	2150281	Validated	Sweden
P75789.SG	156389	Granted	Singapore
P75789.US	9463263	Granted	United States of America
P75789.US.1	15/248745	Examination in progress	United States of America
A Collagen Scaffold for Cell Growth and a Method for Producing Same (PCT/AU2009/000946)			
GH Ref.	Official No.	Case Status	Country
P77147.CA	2731237	Granted	Canada
P77147.CN	ZL 200980128993.8	Granted	China
P77147.NZ	591006	Granted	New Zealand
P77147.SG	168250	Granted	Singapore
Method Of Tissue Repair (PCT/AU2010/000360)			
GH Ref.	Official No.	Case Status	Country
P78804.AU.1	2010228132	Granted	Australia
P78804.CA	2756818	Examination in progress	Canada
P78804.CH	2411023	Validated	Switzerland
P78804.CN.1	201711194887.2	Exam requested	China
P78804.DE	2411023	Validated	Germany
P78804.EP	2411023	EP Granted	European Patent Office
P78804.ES	E10755333	Validated	Spain

P78804.FR	2411023	Validated	France
P78804.GB	2411023	Validated	United Kingdom
P78804.IT	502018000006471	Validated	Italy
P78804.NZ	595534	Granted	New Zealand
P78804.SE	2411023	Validated	Sweden
P78804.SG	174450	Granted	Singapore
P78804.US.1	15/697046	Examination in progress	United States of America

Method for producing a collagen membrane and uses thereof (PCT/AU2013/000621)

GH Ref.	Official No.	Case Status	Country
P90666.AU.1	2013273923	Granted	Australia
P90666.AU.2	2015258323	Granted	Australia
P90666.CA	2876064	Examination in progress	Canada
P90666.CH	2858691	Validated	Switzerland
P90666.CN	ZL 201380038028.8	Granted	China
P90666.DE	2858691	Validated	Germany
P90666.EP	2858691	EP Granted	European Patent Office
P90666.ES	E138043520	Validated	Spain
P90666.FR	2858691	Validated	France
P90666.GB	2858691	Validated	United Kingdom
P90666.HK	HK1209062	Granted	Hong Kong
P90666.IT	502018000024226	Validated	Italy
P90666.JP	6105060	Granted	Japan
P90666.JP.1	2017-038483	Examination in progress	Japan
P90666.MX	359881	Granted	Mexico
P90666.NZ	702942	Granted	New Zealand
P90666.SE	2858691	Validated	Sweden
P90666.SG	11201408138X	Granted	Singapore
P90666.US	9096688	Granted	United States of America
P90666.US.1	10314939	Granted	United States of America
P90666.US.2	16/412884	Application filed	United States of America

Sutureless Repair Of Soft Tissue (PCT/AU2015/000612)

GH Ref.	Official No.	Case Status	Country
P98292.AU.1	2015330962	Granted	Australia
P98292.CA	2963002	Application filed	Canada
P98292.CN	201580054873.3	Examination in progress	China
P98292.EP.1	19213777.6	Application filed	European Patent Office
P98292.HK	17110005.3	HK Stage 1 Published	Hong Kong
P98292.JP	2017-519246	Examination in progress	Japan
P98292.JP.1	2019-132647	Exam requested	Japan
P98292.MX	MX/a/2017/004348	Application filed	Mexico
P98292.NZ	730372	Exam requested	New Zealand
P98292.SG.1	10201805035Q	Exam requested	Singapore
P98292.US	15/514799	Examination in progress	United States of America

Collagen Construct And Method For Producing The Collagen Construct (PCT/AU2015/000611)

GH Ref.	Official No.	Case Status	Country
P98293.AU.1	2015330961	Granted	Australia
P98293.CA	2963000	Application filed	Canada
P98293.CN	201580066936.7	Examination in progress	China
P98293.EP	15849561.4	Exam requested	European Patent Office
P98293.HK	17110006.2	HK Stage 1 Published	Hong Kong
P98293.JP	6585169	Granted	Japan
P98293.JP.1	2019-098397	Exam requested	Japan
P98293.MX	MX/a/2017/004351	Application filed	Mexico
P98293.NZ	730479	Exam requested	New Zealand
P98293.SG	11201702531T	Granted	Singapore
P98293.US	15/514804	Grant Fee Paid	United States of America
P98293.US.1	16/705659	Exam Instructions Received	United States of America

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