

CURRICULUM VITAE

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Royal Society of Medicine (FRSM)

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European Association for Predictive, Preventive, and Personalized Medicine (EPMA)
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Website: <http://epmanet.eu/index.php/about-epma/national-boards/china>
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Researchgate: <https://www.researchgate.net/profile/Xianquan-Zhan-2>

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EDUCATION EXPERIENCE:

- | | |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 9/1989-7/1994 | B.M./M.D., West China University of Medical Sciences, Chengdu, Sichuan Province, P.R. China; Major: Preventive medicine |
| 9/1994-8/1996 | M.S., West China University of Medical Sciences, Chengdu, Sichuan Province, P.R. China. Major: Occupational epidemiology and statistics |
| 9/1996-7/1999 | Ph.D., West China University of Medical Sciences, Chengdu, Sichuan Province, P.R. China. Major: Molecular Toxicology |
| 9/1999-6/2001 | Post-Doctor, Xiangya Medical School Cancer Research Institute, Central South University. Major: Cancer proteomics and bioinformatics |

WORK EXPERIENCE:

- | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------|
| 09/1999 - 10/2001 | Research Assistant Professor, Xiangya Medical School, Central South University, Changsha, P.R. China |
| 10/2001 - 06/2005 | Post-doctoral Researcher, Department of Neurology, University of Tennessee Health Science Center, Memphis, Tennessee, U.S.A. |
| 07/2005 - 07/2006 | Assistant Professor, Department of Neurology, University of Tennessee Health Science Center, Memphis, Tennessee, U.S.A. |

08/2006 - 12/2007	Project Scientist, Department of Ophthalmic Research, The Cole Eye Institute, The Cleveland Clinic, Cleveland, Ohio, U.S.A.
12/2007 - 06/2010	Assistant Professor, Department of Neurology, University of Tennessee Health Science Center, Memphis, Tennessee, U.S.A.
07/2010 - 01/2012	Associate Professor, Department of Neurology, University of Tennessee Health Science Center, Memphis, Tennessee, U.S.A.
01/2012 - 10/2020	Professor, Distinguished Professor, Deputy Director, State Local Joint Engineering Laboratory for Anticancer Drugs, Hunan Engineering Laboratory for Structural Biology and Drug Design, and Key Laboratory of Cancer Proteomics of Chinese Ministry of Health, Xiangya Hospital, Central South University, Changsha, Hunan, P.R. China.
10/2020 - Present	Professor, Principal Investigator, Science and Technology Innovation Center, Shandong First Medical University, Jinan, Shandong, P.R. China.

EDITORIAL BOARD MEMBER:

1. International Journal of Chronic Diseases & Therapy: Editor-In-Chief
2. BMC Medical Genomics (ISSN: 1755-8794) (IF = 3.91): Associate Editor
3. EPMA Journal (ISSN: 1878-5077) (IF = 4.901): Associate Editor
4. Frontiers in Endocrinology (IF = 3.634): Guest Associate Editor
5. Mass Spectrometry Reviews (IF = 9.526): Guest Editor
6. Oxidative Medicine and Cellular Longevity (IF = 5.076): Guest Editor

TALENT PLAN:

1. Distinguished Professor of Central South University, Overseas "Excellent Talents"
2. The "225" engineering medicine discipline leader of high level health talents in Hunan Province
3. The third-level talents of the "531" talent project of Central South University
4. Distinguished Professor of Hundred Talents Plan of Hunan Province
5. Top-level talents of Shandong First Medical University

SOCIETY MEMBERSHIPS:

American Association for Cancer Research (AACR): Active member.
 American Society of Clinical Oncology (ASCO): Full member.
 Free Radical Biology and Free Radical Medicine Branch, Chinese Society of Biophysics: Council member
 American Association for the Advancement of Science (AAAS): Regular member
 Royal Society of Medicine: Fellow
 The Science Advisory Board: member
 The Protein Society
 Asia-Pacific Association of Medical Research (APAMR): Permanent membership
 American Association for Science and Technology (AASCIT)
 Academic leader and subject leader of "Clinical Proteomics and Structural Biology", a self-established secondary discipline in clinical medicine of Central South University (2014--)

National and Local Joint Engineering Laboratory for Anticancer Drugs: Member of the technical committee, technical leader, deputy director of the laboratory (2013-)
National Representative of EPMA in China, The European Association for Predictive, Preventive, and Personalized Medicine (EPMA) (2/2011-).
European Association for Predictive, Preventive, and Personalized Medicine (EPMA): Fellow, and National Representative of EPMA in China
Human Proteome Organization (HUPO)
The Society of Neuroscience (SfN)
American Society for Mass Spectrometry (ASMS)

JOURNAL SPECIAL ISSUE EDITED

1. Systems Biology Aspects of Pituitary Tumors.

http://www.frontiersin.org/Pituitary_Endocrinology/researchtopics/Systems_Biological_Aspects_of_/3191

Topic Editors: Zhan X and Desiderio DM

Publisher: Frontiers/Nature Press

2. Predictive, Preventive and Personalised Medicine in Cancer, Healthcare, Innovative Technologies, Pain Management

Issue Editors: RostyslavBubnov, Vincenzo Costigliola, Kurt Krapfenbauer, ByongChulYoo, Xianquan Zhan

Journal: EPMA Journal

Publisher: Springer Nature

<https://link.springer.com/journal/13167/volumes-and-issues/8-1>

3. Molecular network study of pituitary adenomas.

<https://www.frontiersin.org/research-topics/7633/molecular-network-study-of-pituitary-adenomas>

Topic Editors: Zhan X and Desiderio DM

Journal: Frontiers in Endocrinology

Publisher: Frontiers/Nature Press

4. Potential of Protein Tyrosine Nitration in Medicine

<https://mo.hapres.com/SpecialIssuesPPTNM.aspx>

Guest Editor: Zhan X

Journal: Med One

Publisher: Hapres Publisher

5. Predictive, Preventive and Personalised Medical Approach in Pregnancy, Diabetes mellitus, Cancer and Visual Impairment

Issue Editors: Marko Kapalla, Mahmood Mozaffari, Niva Shapira, ByongChulYoo, Xianquan Zhan

Journal: EPMA Journal

Publisher: Springer Nature

<https://link.springer.com/journal/13167/volumes-and-issues/10-3>

6. Mass Spectrometry Reviews Special Issue on Dominic M. Desiderio

Volume 39, Issue 5-6, Pages 411-762, September/October 2020

Guest Editor: Xianquan Zhan

Journal: Mass Spectrometry Reviews

Publisher: Wiley-VCH publisher

<https://onlinelibrary.wiley.com/toc/10982787/2020/39/5-6>

7. Predictive, Preventive and Personalised Medical Approach, Phenotyping and Multi-omic Tools Applied to Chronic Inflammation, Healing Impairment, Cancer, Cardiovascular and Neurodegenerative Disorders

Issue editors: Babak Baban, RostyslavBubnov, Vincenzo Costigliola, Yoshihiro Kokubo, Mahmood Mozaffari, ByongChulYoo, Xianquan Zhan

Journal: EPMA Journal

Publisher: Springer Nature

<https://link.springer.com/journal/13167/volumes-and-issues/10-4>

8. 3PM Lessons and Recommendations in COVID-19 Pandemic, Biobanks, Prenatal Screening, Dementia and Cancer – Application of Multiomics, Artificial Intelligence and Machine Learning

Issue editors: Babak Baban, RostyslavBubnov, Vincenzo Costigliola, Marko Kapalla, Kneginja Richter, Kristina Yeghiazaryan, ByongChulYoo, Xianquan Zhan

Journal: EPMA Journal

Publisher: Springer Nature

<https://link.springer.com/journal/13167/volumes-and-issues/11-3>

9. PPPM Relevant Tools and Approaches in Combating COVID-19 Pandemic, Diseases' Development and Progression

Issue editors: RostyslavBubnov, Kristina Cochems, Vincenzo Costigliola, Marko Kapalla, Mahmood Mozaffari, Kneginja Richter, ByongChulYoo, Xianquan Zhan

Journal: EPMA Journal

Publisher: Springer Nature

<https://link.springer.com/journal/13167/volumes-and-issues/11-4>

10. Zhan X. The resurgence of two-dimensional gel electrophoresis Understanding proteins at the proteoform level. Research Features. Published on December 3, 2020.

<https://researchfeatures.com/resurgence-two-dimensional-gel-electrophoresis/>

11. Multiomics Analysis of Mitochondrial Dysfunction and Oxidative Stress Pathways in Cancer
Special issue editors: Zhan X, Schlueter H, Golubnitschaja.

Journal: Oxidative Medicine and Cellular Longevity

Publisher: Hindawi

Website: <https://www.hindawi.com/journals/omcl/si/153534/>

BOOKS EDITED:

1. Zhan X (ed.). Proteoforms: Concept and Applications in Medical Sciences. InTech - Open science publisher, London, United Kingdom. Published: July 15th 2020. ISBN: 978-1-

83880-034-5. Print ISBN: 978-1-83880-033-8. eBook (PDF) ISBN: 978-1-83962-832-0.
Copyright year: 2020. DOI: 10.5772/intechopen.83687

<https://www.intechopen.com/books/proteoforms-concept-and-applications-in-medical-sciences>

2. Zhan X, Desiderio DM (eds.). Molecular network study of pituitary adenomas. Lausanne: Frontiers Media SA. London, United Kingdom. 2020. ISBN: 978-2-88963-602-0. DOI: 10.3389/978-2-88963-602-0.
3. Zhan X (ed.). Ubiquitin-Proteasome Pathway. InTech - Open science publisher, London, United Kingdom. ISBN: 978-1-83880-841-9. Print ISBN: 978-1-83880-432-9. eBook (PDF) ISBN: 978-1-83880-842-6. Copyright year: 2020. DOI: 10.5772/intechopen.87547. <https://www.intechopen.com/books/ubiquitin-proteasome-pathway>.
4. Zhan X (ed.). Prime Archives in Aging. Vide Leaf publisher, Hyderabad, India. 2020. ISBN: 978-93-90014-07-1. <https://videleaf.com/product/prime-archives-in-aging>.
5. Zhan X (ed.). Prime Archives in Endocrinology. Vide Leaf publisher, Hyderabad, India. 2020. ISBN: 978-93-90014-21-7. <https://videleaf.com/product/prime-archives-in-endocrinology>.
6. Zhan X (ed.). Metabolomics. InTech - Open science publisher, London, United Kingdom. ISBN: 978-1-83969-084-6.
7. Zhan X (ed.). Cell Culture. InTech - Open science publisher, London, United Kingdom. ISBN: 978-1-83969-446-2.

BOOK CHAPTERS PUBLISHED

1. Zhan X (*corresponding author*). Two-dimensional electrophoresis. In the book: Experimental Protocols for Medical Biology in Chinese and English. Wei Zhen (ed.). Xie He Medical University Press of China. March, 2005. ISBN 7-81072-618/R.611.
2. Zhan X, Sacks H, Desiderio DM. The human pituitary proteome: clinical applications. In: Medical Applications of Mass Spectrometry. Vekey K, Telekes A, Vertes A (eds.). Elsevier Science Publisher. ISBN-10: 0444519807; ISBN-13: 978-0444519801. (2007). Pages 425-458.
3. Zhan X (*corresponding author*), Desiderio DM. Detection of nitrotyrosine-containing proteins. In the book: The Protein Protocols Handbook Third Edition. John M. Walker (ed.). Humana Press Inc. ISBN: 978-1-60327-474-6 (2009).
4. Zhan X (*corresponding author*), Desiderio DM. Mass spectrometric identification of in vivo nitrotyrosine sites in the human pituitary tumor proteome. In the book: Neuroproteomics – Methods and Protocols. Andrew K. Ottens and Kevin K.W. Wang (eds.). Humana Press Inc. ISBN: 978-1-934115-84-8 (2009)
5. Zhan X (*corresponding author*), Chen Z, Peng F, Li M. Analyses of Mouse Liver Microsomal Proteome. In the book: Protein Purification and Analysis III – Methods and Applications (Edited by: i. Press). iConcept Press. Hong Kong, China. ISBN: 978-1-922227-65-2 (June 15, 2014). pp179-208.
6. Zhan X (*corresponding author*), Desiderio DM. Analysis of nitroproteome in human pituitary adenomas. In the book: Protein Purification-Principles and Trends (Edited by: iConcept Press). iConcept Press. San Bernardino, CA, USA. ISBN: 978-1-922227-40-9 (November 13, 2016). pp37-61.

7. Zhan X(*corresponding author*), Desiderio DM. Mass spectroscopy measurements of nitrotyrosine-containing proteins. In the book: Handbook of Measurement in Science and Engineering (Volume III). Myer Kutz (eds.). John Wiley & Sons, Inc., Hoboken, New Jersey, USA. ISBN: 978-1-118-64724-0. (June 15, 2016). Pages 2431-2473.
8. Zhan X(*corresponding author*), Long Y, Desiderio DM. Tyrosine nitration. In the book: Analysis of Post-Translational Modifications by Mass Spectrometry. Richard Unwin and John Griffiths (eds.). John Wiley & Sons, Inc., Hoboken, New Jersey, USA. ISBN: 978-1-119-04585-1. (November 15, 2016), pp197-233.
9. Zhan X (*corresponding author*), Li N. The use of gel electrophoresis and mass spectrometry to identify nitroproteins in nervous system tumors. In the book: Electrophoresis - Life Sciences Practical Applications. Prof. Oana-Maria Boldura and Cornel Baltă (ed.). InTech - Open science publisher, London, United Kingdom. ISBN 978-1-78923-553-1. pp 107-124 (2018). Print ISBN: 978-1-78923-552-4. DOI: 10.5772/intechopen.76889.
10. Li N, Zhan X, Zhan X (*corresponding author*). Energy Metabolism Heterogeneity-based Molecular Biomarkers for Ovarian Cancer. In the book: Molecular Medicine. Sinem Nalbantoglu, and Hakima Amri (ed.). InTech - Open science publisher, London, United Kingdom. ISBN 978-953-51-7865-1. (Accepted, July 31, 2018).
11. Zhan X (*corresponding author*), Zhou T, Application of two-dimensional gel electrophoresis in combination with mass spectrometry in the study of hormone proteoforms. In the book: Mass Spectrometry - Future Perceptions and Applications. Dr. Ganesh Shamrao Kamble (ed.). InTech - Open science publisher, London, United Kingdom. ISBN 978-953-51-7845-3. (Accepted, November 15, 2018).
12. Zhan X (*corresponding author*), Guo T, Wang X, Li M, Yang H, Li L, Peng F. Analysis of phosphotyrosine-containing proteins in glioblastoma with gel electrophoresis and mass spectrometry. In the book: Top 10 Contributions on Biochemistry. Avid Science publisher, Borsigstr, Berlin, Germany. ISBN: 978-93-88170-26-0. (Accepted, November 26, 2018)
13. Zhan X (*corresponding author*), Zhou T, Cheng T, Lu M. Recognition of Multiomics-based Molecule-Pattern Biomarker for Precise Prediction, Diagnosis and Prognostic Assessment in Cancer. In the book: Bioinformatics Tools for Detection and Clinical Interpretation of Genomic Variations. Prof. Ali Samadikuchaksaraei (ed.). InTech - Open science publisher, London, United Kingdom. ISBN 978-1-78923-800-6. (Accepted, January 8, 2019).
14. Zhan X (*corresponding author*), Zhan X, Wang X. Invasiveness-related proteomic variations and molecular network changes in human nonfunctional pituitary adenomas. In the book: Proteomic Technologies and Applications. Prof. Ibrokhim Abdurakhmonov (ed.). InTech - Open science publisher, London, United Kingdom. ISBN 978-1-78984-611-9. (Accepted, February 28, 2019).
15. Zhan X (*corresponding author*), Li N. Mitochondrial proteomic and molecular network alterations in human ovarian cancers. In the book: Mitochondrial and Brain Diseases. Emeritus Prof. Stavros Baloyannis (ed.). InTech Open science publisher, London, United Kingdom. ISBN 978-1-78985-532-6. (Accepted, April 24, 2019). DOI: 10.5772/intechopen.86493
16. Zhan X (*corresponding author*). Introductory chapter: Proteoforms. In the book: Proteoforms: Concept and Applications in Medical Sciences. Dr. Xianquan Zhan (ed.). InTech Open science publisher, London, United Kingdom. ISBN 978-1-83880-034-5. (Accepted, January 28, 2020).
17. Zhan X (*corresponding author*), Qian S. Prolactin proteoform pattern changed in human pituitary adenoma relative to control pituitary tissues. In the book: Proteoforms: Concept

- and Applications in Medical Sciences. Dr. Xianquan Zhan (ed.). InTechOpen science publisher, London, United Kingdom. ISBN 978-1-83880-034-5. Published: June 15th 2020. DOI: 10.5772/intechopen.92836
18. Long Y, Lu M, Cheng T, Zhan XH, Zhan X (Corresponding author). Multiomics-Based Signaling Pathway Network Alterations in Human Non-functional Pituitary Adenomas. In the ebook: Prime Archives in Endocrinology. Xianquan Zhan (ed.). Vide Leaf publisher, Hyderabad, India. 2020. <https://videleaf.com/product/prime-archives-in-endocrinology/>. ISBN: 978-93-90014-21-7. (Accepted and published online, June 16, 2020)
 19. Li N, Qian S, Li B, Zhan X (Corresponding author). Quantitative analysis of the human ovarian carcinoma mitochondrial phosphoproteome. In the ebook: Prime Archives in Aging. Xianquan Zhan (ed.). Vide Leaf publisher, Hyderabad, India. 2020. ISBN: 978-93-90014-07-1. <https://videleaf.com/product/prime-archives-in-aging/>. (Accepted and published online, June 16, 2020)
 20. Guo T, Wang X, Li M, Yang H, Li L, Peng F, Zhan X (Corresponding author). Identification of glioblastoma phosphotyrosine-containing proteins with two-dimensional western blotting and tandem mass spectrometry. In the ebook: Prime Archives in Biomedical Sciences. Antonio Monleon-Getino (ed.). Vide Leaf publisher, Hyderabad, India. 2020. ISBN: 978-93-90014-11-8. <https://videleaf.com/product/prime-archives-in-biomedical-sciences/> (Accepted, August 11, 2020)
 21. Zhan X (Corresponding author), Lu M. Abnormal ubiquitination of ubiquitin-proteasome system in lung squamous cell carcinomas. In the book: Ubiquitin-Proteasome Pathway. Dr. Xianquan Zhan (ed.). InTechOpen science publisher, London, United Kingdom. ISBN 978-1-83880-841-9. DOI: <http://dx.doi.org/10.5772/intechopen.93586> (Online published, Sept 10, 2020).
 22. Zhan X (Corresponding author), Wang X, Desiderio DM. A Review on Current Status and Perspectives of Pituitary Adenoma Nitroproteomics. In: Current Topics in Medicine and Medical Research (Vol.11). Dr. Ashish Anand (ed.). Book Publisher International, Hooghly, West Bengal, India. Book Publisher International, London, UK. ISBN-13 (15): 978-93-90516-20-9 .ISBN-13 (15): 978-93-90516-21-6. Published on December 11, 2020.<https://doi.org/10.9734/bpi/ctmamr/v11>.
 23. Zhan X (Corresponding author), Li N. The anti-cancer effects of anti-parasite drug ivermectin in ovarian cancer. In the book: Ovarian Cancer - Updates in Tumour Biology and Therapeutics. Dr. Gwo Yaw Ho and Dr. Kate Webber (eds.).InTechOpen science publisher, London, United Kingdom. ISBN 978-1-83968-744-0. (Proof corrected, January 10, 2021).
 24. Zhan X (Corresponding author), Li B, Zhan X, Schlüter H, Jungblut PR, Coorssen JR. Chapter 11: A Review on Innovating the Concept and Practice of Two-Dimensional Gel Electrophoresis in the Analysis of Proteomes at the Proteoform Level. In: Current Advances in Chemistry and Biochemistry (Vol.2). Dr. Mohamed Fawzy Ramadan Hassanien (ed.). Book Publisher International, Hooghly, West Bengal, India. Book Publisher International, London, UK. Print ISBN: 978-93-90768-39-4, eBook ISBN: 978-93-90768-44-8. DOI: 10.9734/bpi/cacb/v2/7531D. Published, February 12, 2021.<https://www.bookpi.org/bookstore/product/current-advances-in-chemistry-and-biochemistry-vol-2/>
 25. Zhan X (corresponding author), Li B, Zhan X, Schlüter H, Jungblut PR, Coorssen JR. Innovating the Concept and Practice of Two-Dimensional Gel Electrophoresis in the Analysis of Proteomes at the Proteoform Level. In the book: Current Issues in Medicine:

Current Issues in Medicine: Diagnosis, Imaging, and Tools (Raj Bawa, and Gerald F. Audette, Eds.), Jenny Stanford Publishing Pte. Ltd., Singapore. ISBN: xxxxxxxx (Hardcover). ISBN: xxxxxxxxxxxxxxxx (eBook). 2020. <https://www.jennystanford.com/>(in press, November 19, 2020)

PEER-REVIEWED ARTICLES:

1. Wang M, Wang Z, Luo J, Wang X, Zhan X, Zhu R. 5-year before- and after comparison of lung function in asbestos workers. *Journal of West China University of Medical Sciences (Hua Xi Yi Ke Da XueXue Bao)*, 27: 94-96 (1996)
2. Wang MZ, Wang ZM, Zhan XQ, et al. Study on relationship between mental function and work ability among aging workers. *J Occup Health & Damage*, 12: 4-6 (1997).
3. Wang MZ, Zhan XQ, Zhan CL, et al. Study on health assessmental index and method of aged people. *J Occup Health & Damage*, 12: 68-71 (1997).
4. Zhan X, Wang Z, Wang M, Lan Y, Shen N. The relationship between pulmonary function and work ability of aging workers. *Journal of West China University of Medical Sciences (Hua Xi Yi Ke Da XueXue Bao)*, 28: 320-324 (1997).
5. Zhan XQ, Wang ZM, Wang MZ, et al. The relationship between the maximal expiratory flow and work ability among aging worker. *Chin J Ind HygOccup Dis (Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi)*, 16: 92-95 (1998).
6. Zhan XQ, Wang MZ, Wang ZM. Nitric oxide radical and its role in asbestos-induced pulmonary fibrosis study. *J Occup Health & Damage*, 14: 178-180 (1999). [Review]
7. Zhan XQ, Wang ZM. The roles of cytokines in asbestos-induced pulmonary fibrosis. *Foreign Medical Sciences-Hygiene section*, 26: 129-137 (1999). [Review]
8. Zhan XQ, Yang Q, Wang ZM. Comparison study on changes of glutathione peroxidase activity in quartz and chrysotile-treated rabbit alveolar macrophage. *J Occup Health & Damage*, 14: 129-132 (1999).
9. Zhan X, Wang Z, Yang Q, Wang M, Liu Z. Effects of chrysotile on nitric oxide production and anti-oxidasic activity in rabbit alveolar macrophages. *Journal of West China University of Medical Sciences (Hua Xi Yi Ke Da XueXue Bao)*, 31: 58-61 (2000).
10. Zhan XQ, Yang Q, Wang ZM. Quartz and chrysotile up-regulate nitric oxide and nitric oxide synthase activity in rabbit alveolar macrophages. *China Public Health*, 16: 684-686 (2000).
11. Zhan XQ, Wang ZM, Yang Q, Wang MZ. Role of Supernatants-treated by Crocidolite on Human Embryonic Pulmonary Fibroblasts. *China Public Health*, 16: 794-796 (2000).
12. Zhan XQ, Yang Q, Wang ZM, Wang MZ. The Effect of Protein Kinase Inhibitor On The Changes Of Cell Cycle-Regulating Protein statement Of Human Embryonic Pulmonary Fibroblasts Induced By Crocidolite. *Chin J Ind Med*, 13: 257-261 (2000).
13. Zhan XQ, Yang Q, Wang ZM. Cell proliferative signal transduction pathway and pulmonary fibrosis induced by asbestos. *Chin J Ind HygOccup Dis (Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi)*, 18: 61-64 (2000). [Review]
14. Zhan XQ, Yang Q, Wang ZM, Wang MZ. Effect of Protein Kinase Inhibitor On The Changes of Cell Cycle And Apoptosis of Human Embryonic Pulmonary Fibroblast Induced By Crocidolite. *Chin J Prev Med (Zhonghua Yu Fang Yi Xue Za Zhi)*, 34: 375-376 (2000).
15. Zhan XQ, Yang Q, Wang ZM, Wang MZ. Effect of PKC Inhibitor on The Proliferation of Human Embryonic Pulmonary Fibroblasts Caused by Alveolar Macrophage-derived Factors Induced by Chrysotile. *Chin J Ind HygOccup Dis*, 18: 346-349 (2000).

16. Zhan XQ, Yang Q, Wang ZM, Wang MZ. The Role of PKC Signal Transduction Pathways In the Changes of Both Cell Cycle And Apoptosis of Human Embryonic Pulmonary Fibroblast Induced By Chrysotile. *Chin J Ind HygOccup Dis*, 19: 34-36 (2001).
17. Zhan,XQ, Yang Q, Wang,ZM, et al. Influence Of PKC Signal Pathways On The statement Changes Of Cell Cycle-Regulating Protein In The Proliferation Process Of Human Embryonic Pulmonary Fibroblasts Induced By Chrysotile. *Chin J Ind HygOccup Dis*, 19: 37-39 (2001).
18. Zhan X, Yang Q, Wang Z, Wang M. The role of protein kinase in the proliferation of human embryonic pulmonary fibroblasts stimulated by the supernatants of crocidolite-exposed alveolar macrophages. *J Hyg Res*, 30: 10-13 (2001).
19. Li C, Zhan XQ, Chen ZC. Bio-sensor chip mass spectrometry and its application in proteomics. *Chemistry of Life*, 10: 157-160 (2001).
20. Zhan XQ, Chen ZC. A new strategy of cancer research: proteomic study. *Foreign Medical Sciences-Oncology Section*, 28(suppl): 1-4 (2001).
21. Zhan XQ, Chen ZC. The current status and prospect of proteomic separating techniques. *Foreign Medical Sciences-Molecular Biology Section*, 23: 343-348 (2001).
22. Zhan XQ, Chen ZC, Li C, Guan YJ, Xie JY, Cheng P, Liang SP. Analysis of human lung squamous carcinoma cell line NCI-H520 proteome by two-dimensional polyacrylamide gel electrophoresis and MALDI-TOF-mass spectrometry. *Chinese Journal of Cancer*, 20: 575-582 (2001).
23. Zhan XQ, Chen ZC. The current status of protein identification techniques in proteomics. *Foreign Medical Sciences-Molecular Biology Section*, 24: 129-133 (2002). [Review]
24. Zhan XQ, Guan YJ, Li C, Chen ZC, Xie JY, Chen P, Liang SP. Differential proteomic analysis of human lung adenocarcinoma cell line A-549 and of normal cell line HBE. *Acta Biochemica et BiophysicaSinica (Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao)*, 34: 50-56 (2002).
25. Li C, Zhan X, Li M, Wu X, Li F, Li J, Xiao Z, Chen Z, Feng X, Chen P, Xie J, Liang S. Proteomic comparison of two-dimension gel electrophoresis profiles from human lung squamous carcinoma and normal bronchial tissues. *Genomics Proteomics Bioinformatics*, 1: 58-67 (2003).
26. Li C, Chen Z, Xiao Z, Wu X, Zhan X, Zhang X, Li M, Li J, Feng X, Liang S, Chen P, Xie J. Comparative proteomics analysis of human lung squamous carcinoma. *Biochemical and Biophysical Research Communications*, 309: 253-260 (2003).
27. Zhan X, Desiderio DM. Differences in the spatial and quantitative reproducibility between two second-dimensional gel electrophoresis systems. *Electrophoresis*, 24: 1834-1846 (2003).
28. Zhan X, Desiderio DM. Spot volume vs. amount of protein loaded onto a gel. A detailed, statistical comparison of two gel electrophoresis systems. *Electrophoresis*, 24: 1818-1833 (2003).
29. Desiderio DM, Zhan X. A study of the human pituitary proteome: The characterization of differentially expressed proteins in an adenoma compared to a control. *Cellular & Molecular biology*, 49: 689-712 (2003).
30. Zhan X, Desiderio DM. A reference map of a pituitary adenoma proteome. *Proteomics*, 3: 699-713 (2003).
31. Zhan X, Desiderio DM. Heterogeneity analysis of the human pituitary proteome. *Clinical Chemistry*, 49: 1740-1751 (2003).

32. Zhan X, Evans CO, Oyesiku NM, Desiderio DM. Proteomics and transcriptomics analyses of secretagogin down-regulation in human non-functional pituitary adenomas. *Pituitary*, 6: 189-202 (2003).
33. Yang F, He ZM, Zhan XQ, Chen ZC, Yan B, Huang HK, Li TB. Construction and identification of directional cDNA library from Chinese giant salamander *Andrias davidianus* liver. *Acta Zoologica Sinica (Dong Wu Xue Bao)*, 50: 475-478 (2004).
34. Li C, Chen ZC, Xiao ZQ, Wu XY, Zhan XQ, Li MY, Feng XP, Zhang XP, Li JL, Chen P, Liang SP. Differential analysis of two-dimension gel electrophoresis profiles of human lung squamous carcinoma and tumor-adjacent tissue. *Chinese Journal of Cancer (Ai Zheng)*, 23: 28-35 (2004).
35. Zhan X, Desiderio DM. The human pituitary nitroproteome: detection of nitrotyrosyl-proteins with two-dimensional Western blotting, and amino acid sequence determination with mass spectrometry. *Biochem Biophys Res Commun* 325: 1180-1186 (2004).
36. Zhan X, Desiderio DM. Comparative proteomics analysis of human pituitary adenomas: Current status and future perspectives. *Mass Spectrom Reviews*, 24: 783-813 (2005).
37. Zhan X, Giorgianni F, Desiderio DM. Proteomics analysis of growth hormone isoforms in the human pituitary. *Proteomics*, 5:1228-1241 (2005).
38. Moreno CS, Evans CO, Zhan X, Okor M, Desiderio DM, Oyesiku NM. Novel molecular signaling in human clinically non-functional pituitary adenomas identified by gene expression profiling and proteomic analyses. *Cancer Research*, 65(22): 10214-10222 (2005).
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