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ACADEMIC QUALIFICATIONS:

- **10/1993~ 09/1996:** Ph.D., Biological Inorganic Chemistry, Birkbeck College, the University of London, Great Britain (Supervisor: Prof. *Peter J Sadler*)
- **09/1987~ 07/1990:** M.Sc., NMR Spectroscopy, Wuhan Institute of Physics, the Chinese Academy of Sciences, P. R. China

PROFESSIONAL EXPERIENCE:

- **07/2007- Present:** *Professor*, Department of Chemistry, the University of Hong Kong
- **02/2004- 2007/07:** *Associate Professor*, Department of Chemistry, the University of Hong Kong
- **12/1998- 02/2004:** *Assistant Professor*, Department of Chemistry, University of Hong Kong
- **10/1996-12/1998:** *GlaxoWellcome Research Fellow*, Department of Chemistry, the University of Edinburgh, Great Britain
- **10/1993~ 09/1996:** *Ph.D. Study*, Biological Inorganic Chemistry, the University of London (Birkbeck College), Great Britain
- **08/1990~ 09/1993:** *Research Associate and Lecturer*, Coordination Chemistry Institute, Nanjing University, Nanjing, P.R. China

RESEARCH INTERESTS:

Biological Inorganic Chemistry; Medicinal (Inorganic) Chemistry; Structural Biology of Metalloproteins

MEMBERSHIPS:

- Panel Member of National Science Foundation of China (NSFC, Inorganic Chemistry), 2005
- American Chemical Society (ACS)
- Society of Biological Inorganic Chemistry (SBIC)
- Steering Committee of Asian Biological Inorganic Chemistry (2006-)
- Editorial Advisory Board of *The Journal of Biological Inorganic Chemistry* (2007-2009), *Open Medicinal Chemistry Journal* (Bentham Science Publisher) and *The Chinese Journal of Magnetic Resonance*

AWARDS:

- Outstanding Young Researcher Award, the University of Hong Kong 2004-2005
- Outstanding Young Scholar Award (Type 'B'), National Science Foundation of China (NSFC) 2005

REPRESENTATIVE PUBLICATIONS: (*Over 80 papers have been published in international journals*)

1. Cun SJ, Li HY, Ge RG, Lin MCM, **Sun HZ** (2008) "A histidine- and cysteine-rich metal binding domain at the C-terminus of heat-shock protein A from *Helicobacter pylori*: implication for nickel homeostasis and bismuth susceptibility" *Journal of Biological Chemistry*, published on March 25, 2008
2. Wang H, Li HY, Cai B, Huang ZX, **Sun HZ** (2008) "The effect of nitric oxide (NO) on metal release from human metallothionein-3 (MT-3): gradual unfolding of the protein" *Journal of Biological Inorganic Chemistry*, **13**, 411-419.
3. Yang N, Tanner JA, Zheng BJ, Watt RM, He ML, Lu LY, Jiang J-Q, Shum K-T, Lin Y-P, Wong KL, Lin MCM, Kung HF, **Sun HZ**, Huang JD (2007) "Bismuth complexes inhibit the SARS coronavirus" *Angewandte Chemie International Edition* **46**, 6464-6468.
4. Yang N, Tanner JA, Wang Z, Huang JD, Zheng BJ, Zhu N, **Sun HZ** (2007) "Inhibition of SARS coronavirus helicase by bismuth complexes" *Chemical Communications* 4413-4415
5. Li HY, Fung KL, Jin DY, Chung SSM, Ching YP, Ng IO, Sze KH, Ko BCB, **Sun HZ** (2007) "Solution structures, dynamics and lipid-binding of SAM domain from the deleted in liver cancer 2 (DLC2): a

- monomeric structure with membrane-binding properties” *Proteins: Structure, Function and Bioinformatics* **67**, 1154-1166.
6. Ge RG, Sun XS, Gu Q, Watt RM, Wong BCY, Xia HHX, Huang JD, He QY, **Sun HZ** (2007) “A proteomic approach for the identification of bismuth-binding proteins in *Helicobacter pylori*” *Journal of Biological Inorganic Chemistry* **12**, 831-842.
 7. Ge RG, Zhang Y, Sun XS, Watt RM, He Q-Y, Huang JD, Wilcox DE, **Sun HZ** (2006) “Thermodynamic and kinetic aspects of metal binding to the histidine-rich protein, Hpn” *Journal of the American Chemical Society* **128**, 11330-11331.
 8. Ge RG, Watt RM, Sun X, Tanner JA, He QY, Huang JD, **Sun HZ** (2006) “Expression and characterization of a histidine-rich protein: potential for Ni²⁺ storage in *Helicobacter pylori*” *Biochemical Journal* **393**, 285-293.
 9. Chen R, So MH, Yang J, Deng F, Che C-M, **Sun HZ** (2006) “Fabrication of bismuth subcarbonate nanotube arrays from bismuth citrate” *Chemical Communications* 2265-2267.
 10. Wang H, Zheng Q, Cai B, Li HY, Sze KH, Huang ZX, Wu HM, **Sun HZ** (2006) “Structure and dynamics of human metallothionein-3 (MT-3)” *FEBS Letters* **580**, 795-800.
 11. Li F, Li HY, Kwan MF, Hu LH, Chen GH, He QY, **Sun HZ** (2005) “Structure, assembly and topology of G185R mutant of the transmembrane domain-4 of divalent metal transporter” *Journal of the American Chemical Society* **127**, 1414-1423.
 12. Li HY, Li F, Qian ZM, **Sun HZ** (2004) “Three dimensional structures and topology of the transmembrane domain4 of divalent metal transporter in membrane-mimetic environments” *European Journal of Biochemistry* **271**, 1938-1951.
 13. Li W, Jin L, Zhu NY, Deng F, **Sun HZ** (2003) “Structure of colloidal bismuth subcitrate in dilute HCl: assembly of dinuclear [Bi(cit)₂Bi]²⁻” *Journal of the American Chemical Society* **125**, 12408-12409.
 14. Li HY, Li F, **Sun HZ**, Qian ZM (2003) “Membrane-inserted conformation of transmembrane domain-4 of divalent metal transporter” *Biochemical Journal* **372**, 757-766.
 15. Yan SC, Wong LK, Chow LMC, **Sun HZ** (2003) “Rapid reduction of pentavalent antimony by trypanothione: potential relevance to antimonial activation” *Chemical Communications* 266-267.
 16. Zhang L, Szeto KY, Wong WB, Sadler PJ, **Sun HZ** (2001) “Interactions of bismuth with human lactoferrin and recognition of Bi^{III}-lactoferrin by intestinal cells” *Biochemistry* **44**, 13281-13287.
 17. **Sun HZ**, Li HY, Mason AB, Woodworth RC, Sadler PJ (2001) “Competitive binding of bismuth to transferrin and albumin in aqueous solution and blood plasma” *Journal of Biological Chemistry* **276**, 8829-8835.
 18. Yan SC, Ding K, Zhang L, **Sun HZ** (2000) “Complexation of antimony(III) to trypanothione”. *Angewandte Chemie International Edition* **39**, 4260-4262.

INVITED REVIEWS AND BOOK CHAPTERS:

1. Ge RG, **Sun HZ** (2007) “Bioinorganic chemistry of bismuth and antimony: target sites for metallodrugs” *Accounts of Chemical Research* **40**, 267-274.
2. Yang N, **Sun HZ** (2007) “Biocoordination chemistry of bismuth: recent advances” *Coordination Chemistry Reviews* **251**, 2354-2366.
3. Yan SC, Jin L, **Sun HZ** (2005) “⁵¹Sb- Antimony in medicine” in ‘*Metallotherapeutics Drugs and Metal-Based Diagnostic Agents: The Use of Metals in Medicine*’ (eds. Tiekink E.R.T., Gielen M.), John Wiley, pp. 441-461.
4. **Sun HZ**, Zhang L Szeto KY (2004) “Bismuth in medicine”. *Metal Ions in Biological System*, **41**, 333-378.
5. Li F, **Sun HZ** (2004) “Dynamic and kinetic aspects of metallodrugs by NMR” in *Fluxional Organometallic and Coordination Chemistry* (Edited by Gielen M., Willem R., Wrackmeyer B.), John-Wiley, pp. 163-217.
6. **Sun HZ** (2002) “Metallodrugs” in *Encyclopedia of Nuclear Magnetic Resonance: Advances in NMR* (Ed: Grant DM & Harris RK, John Wiley & Sons Ltd.), pp. 413-427.

INVITED LECTURES:

- Metals in Medicine- Gordon Research Conference (MIM-GRC), Colby-Sawyer College, New London, NH 03257, USA, July 21-26, 2002
- 4th International Symposium for Chinese Inorganic Chemists, Tsinghua University, Hsinchu, Taiwan, November 10, 2002
- 1st Asian Meeting of Biological Inorganic Chemistry Conference, Okazaki, Japan, March 7-10, 2003
- 11th International Conference on Biological Inorganic Chemistry (ICBIC-11), Cairns, Australia, July 19-23, 2003
- Singapore International Chemical-3: Frontiers in Physical And Analytical Chemistry, Singapore, December 15-17, 2003
- 8th International Symposium on Applied Bioinorganic Chemistry, Hong Kong, China, April 2-5, 2004
- 2nd Asian Biological Inorganic Chemistry Conference, Goa, India, December 5-12, 2004
- 11th Asian Chemical Congress, Seoul, Korea, August 25-28, 2005
- 37th International Conference on Coordination Chemistry (ICCC-37, Keynote Speaker), South Africa, August 13-18, 2006
- 7th International Conference on Environmental and Biological Aspects of Main-Group Organometallics (7th ICEBAMO), Heraklion, Crete, Greece, October 10- 12, 2006
- 3rd Asian Biological Inorganic Chemistry Conference, Nanjing, P.R. China, October 30- November 3, 2006
- 1st Georgian Bay Biological Inorganic Chemistry Conference, Parry Sound, Ontario, Canada, May 22-26, 2007
- 13th International Conference on Biological Inorganic Chemistry (ICBIC-13), Vienna, Austria, July 15-20, 2007
- International Symposium on Metallomics 2007 (ISM2007), Nagoya, Japan, November 28- December 1, 2007
- The 4th International Conference on Metals and Genetics (ICMG-4), Paris, France, July 20-24, 2008 (to be delivered)
- The 9th European Biological Inorganic Chemistry Conference (EUROBIC-9), Wroclaw, Poland, September 2-6, 2008 (to be delivered)
- 4th Asian Biological Inorganic Chemistry Conference, Korea, November 10-13, 2008 (to be delivered)

SUPERVISION OF RESEARCH STUDENTS: Graduated: 7 Ph.D. and 2 M.Phil; Current Research Students: 7 Ph.D and 1 M.Phil Candidates