A. Biographical information : Dar-Bin Shieh

1. Personal information :

Name: Dar-Bin Shieh
Mailing address: 1 University Road, Institute of Oral Medicine, National Cheng Kung University, Tainan 70101 Taiwan
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2. Education

1997 Doctor of Medical Sciences (D.M.Sc) in Oral Biology, Harvard University, USA.

1997 Certificate in Oral Diagnosis and Oral Pathology, Harvard School of Dental Medicine, USA

1988 Doctor of Dental Surgery (D.D.S.), National Yang-Ming University.

3.Current position and relevant experience

2007/02 - present Director of University Development,

Office of Research and Development, NCKU

2005/10 - 2007/01 Director of Research and Education

Center for Micro-Nano Science and Technology, NCKU

2005/08 - present Associate Professor

Institute of Oral Medicine, National Cheng Kung University

2000/08 - present Session Chief of Oral Diagnosis and General Dentistry,

NCKU Medical Center

1999/02 - 2005/07 Assistant Professor

Institute of Oral Medicine, National Cheng Kung University

1997/07 - 1999/01 Research Fellow

Dept. Experimental Medicine, Harvard Medical School

4. Fields of specialty

Nanobiotechnology,

Oral diagnosis and pathology,
Molecular biology,
Cancer biology,

5. Major awards and honors

1. Best Basic Science Award in 10th International Congress on Oral Cancer, Island of Crete, Greece, 2005 Apr. (WHO, ICOOC, HATMC, and HCS cosponsor)
2. **Fellow**, The International Academy of Oral Oncology (Since 2005)
3. **Editorial Board**, Journal of Taiwan Nanotechnology Industry Development Association (Since 2005)
4. **Member of IEEE Technical Committee** on Nano-Biomedicine (Since 2006)
5. **Outstanding Teaching Award** of National Cheng Kung University (2006)
6. Who's Who in the World 2007, Marquis Who's Who, USA
7. **Member of Advisory Board**, 2007 International Conference on Bionano Sciences, Taiwan (2007 ICONBS, Taiwan)
8. **Invited Reviewer** for Journals: Biomaterials, Materials Chemistry and Physics, Bioorganic & Medicinal Chemistry Letters, Colloids and Surfaces B：Biointerfaces, Journal of Biomedical Science, Optical Materials, Journal of Clinical Pathology, etc.
9. **Schering Scholar Award** from the American Beraue for Medical Advancement in China (ABMAC, 1985)

6. journal papers, patents, periodical articles, or books:

Selected Publications:

1. Wu PC, Wang WS, Huang YT, Shen HS, Lo YW, Tsai TL, **Shieh DB*,** Yeh CS. Porous Iron Oxide-Based Nanorods Developed as Delivery Nanocapsules. **Chemistry-A European Journal**, 13(14): 3878-3885, **2007** May.
2. Jeng YR, Lin TT, Wong TY, **Shieh DB*.** Nano-mechanical properties of fluoride treated enamel surface. **Journal of Dental Research**, 87(4):381-385, **2008** Apr .
3. **Shieh DB**, Chen CC, Shih TS, Tai HM, Wei YH, Chang HY. Mitochondrial DNA alterations in blood of the humans exposed to *N*, *N*-Dimethylformamide. **Chemico-Biological Interactions**, 165(3): 211-219**, 2007** Feb.
4. Tai SP, Wu YN, **Shieh DB**, Chen LJ, Lin KJ, Yu CH, Chu SW, Chang CH, Shi XY, Wen YC, Lin KH, Liu TM, Sun CK. Molecular Imaging of Cancer Cells Using Plasmon-Resonant-Enhanced Third-Harmonic-Generation in Silver

Nanoparticles. **Advanced Materials,** 19(24): 4520-4523, 2007 Dec.

5. Su CH, Sheu HS, Lin CY, Huang CC, Lo YW, Pu YC, Weng JC, **Shieh DB**, Chen JH, Yeh CS. Nanoshell Magnetic Resonance Imaging Contrast Agents. **Journal of the American Chemical Society**, 129(7): 2139-2146**, 2007** Feb.
6. Hsu MH, Josephrajan T, Yeh CS, **Shieh DB**, Su WC, Hwu JR. Novel arylhydrazone-conjugated gold nanoparticles with DNA-Cleaving ability: The first DNA-Nicking nanomaterial. **Bioconjugate Chemistry**, 18 (6): 1709-1712, **2007** Nov-Dec.
7. Su WP, Tu IH, Hu SW, Yeh HH, **Shieh DB**, Chen TY, Su WC. HER-2/neu raises SHP-2, stops IFN-gamma anti-proliferation in bladder cancer. **Biochemical and Biophysical Research Communications**, 356 (1): 181-186, **2007** Apr.
8. Li PC, Wei CW, Liao CK, Chen CD, Pao KC, Wang CRC, Wu YN, **Shieh DB**. Photoacoustic imaging of multiple targets using gold nanorods. **IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control,** 54 (8): 1642-1647, **2007** Aug.
9. Lin MC, Chu CJ, Tsai LC, Lin HY, Wu CS, Wu YP, Wu YN, **Shieh DB**, Su YW, Chen CD. Control and detection of organosilane polarization on nanowire field-effect-transistors. **Nano Letters**, 7(12): 3656- 3661, **2007** Dec.
10. Hu KW, Huang CC, Hwu JR, Su WC, **Shieh DB**, Yeh CS. A new photothermal therapeutic agent: core-free nanostructured Au_xAg_{1-x} Dendrites. Accepted by **Chemistry-A European Journal**.
11. Chang FY, Wang SPH, Su CH, Tsai TL, Wu PC, **Shieh DB**, Chen JH, Hsieh PCH, Yeh CS. Stabilizer-free poly(lactide-co-glycolide) nanoparticles for multimodel biomedical probes. Accepted by **Biomaterials**.
12. Wu PC, Su CH, Cheng FY, Weng JC, Tsai TL,Yeh CS, Chen JH, Hwu JR, Tzeng Y, Su WC, **Shieh DB***. Modularly Assembled Magnetite Nanoparticles Enhance in vivo Targeting for Magnetic Resonance Cancer Imaging. (Submitted)
13. **Shieh DB*,** Yeh CS, Chang WC, Tzeng Y**.** The integration of biomedical nanotechnology education program in Taiwan. **Journal of Materials Education,** 29(1-2):107-116, **2007** July.
14. Tzeng Y**, Shieh DB.** Nanoscience and nanotechnology human resource development for higher education in Taiwan. **Journal of Materials Education,** 29(1-2):141-148, **2007** July.
15. Liu CP, Wu JJ, Chen DH, Huang JCA, Chung CK, Lee YC, Huang JL, Sahu DR, **Shieh DB,** Tzeng Y**.** A multidisciplinary introductory nanotechnology course with hands-on experiments. **Journal of Materials Education,** 29(3-4):215-234, **2007** Dec.
16. **Shieh DB*,** Su CH, Chang FY, Wu YN, Su WC, Hwu JR, Chen JH, Yeh CS**.**

Aqueous nickel-nitrilotriacetate modified Fe_3O_4–NH_3^+ nanoparticles for protein purification and cell targeting. **Nanotechnology,** 17(16): 4174-4182, **2006** Aug.

17. **Shieh DB**, Chen IW, Shiao CY, Wei CY, Chung CH, Chang HJ, Jin YT, Wong TY. Tissue expression of gelsolin in oral carcinogenesis progression and its clinicopathological implications. **Oral Oncology**, 42(6):599-606, **2006** Jul.
18. Hsiao MT, Chen SF, **Shieh DB***, Yeh CS. One-Pot Synthesis of Hollow Au_3Cu_1 Spherical-Like and Biomineral Botallackite $Cu_2(OH)_3Cl$ Flower- Like Architectures Exhibiting Anti-microbial Activity. **J. of Physical Chemistry B,** 110(1)**:** 205-210, **2006** Jan.
19. Yang WH, Lee CF, Tang HY, **Shieh DB**, Yeh CS. Iron Oxide Nanopropellers Prepared by a Low-Temperature Solution Approach. **J. of Physical Chemistry B,** 110(29)**:** 14087-14091, **2006** Jul.
20. Tai SP, Lee WJ, **Shieh DB**, Wu PC, Huang HY, Yu CH, Sun CK. In vivo optical biopsy of hamster oral cavity with epi-third-harmonic-generation microscopy, **Optics Express,** 14(13)**:** 6178-6187, **2006** Jun.
21. Huang CC, Hwa JR, Su WC, **Shieh DB**, Tzeng YH, Yeh CS. Surfactant- Assisted Hollowing of Cu Nanopaticles Incorporating with Halide-Induced Corrosion Oxidation. **Chemistry-A European Journal**, 12(14): 3805-3810, **2006** May.
22. Lu J, Yang S, Ng KM, Su CH, Yeh CS, Wu YN, **Shieh DB**. Solid-state synthesis of monocrystalline iron oxide nanoparticle based ferrofluid suitable for magnetic resonance imaging contrast application (vol 17, pg 5812, 2006) **Nanotechnology,** 18 (28): Art. No. 289001, **2007** Jul.
23. Lu J, Yang S, Ng KM, Su CH, Yeh CS, Wu YN, **Shieh DB**. Solid-state synthesis of monocrystalline iron oxide nanoparticles (MIONs) ferrofluid for application as MRI contrast agent. **Nanotechnology,** 17(23):5812-5820, **2006** Dec.
24. Pu YC, Hwa JR, Su WC, **Shieh DB**, Tzeng YH, Yeh CS. Water Dissolvable Sodium Sulfate Nanowires as a Versatile Template for the Synthesis of Polyelectrolyte and Metal-based Nanotubes. **Journal of the American Chemical Society**, 128(35): 11601-11611**, 2006** Sep.
25. **Shieh DB,** Yang SR, Shi XY, Wu YN, Wu SN. Properties of BKca Channels in Oral Keratinocytes**. Journal of Dental Research,** 84(5):468-473, **2005** May.
26. **Shieh DB*,** Chang FY, Su CH, Yeh CS, Wu MT, Tsai CY, Wu CL, Chen DH, Chou CH**.** Aqueous Dispersions of Magnetite Nanoparticles with NH_3^+-surfaces for magnetic manipulations of biomocules and MRI contrast agents**. Biomaterials**, 26(34): 7183-7191, **2005** Dec**.**
27. Chang FY, Su CH, Yang YS, Yeh CS, Tsai CY, Wu CL, Wu MT, **Shieh DB***. Characterization of a newly synthesized Fe3O4 nanoparticle aqueous dispersions and its biomedical applications. **Biomaterials,** 26: 729-738, **2005** Mar.

28. Liu, JK; Chung, CH; Chang, CY; **Shieh DB**. Bond strength and debonding characteristics of a new ceramic bracket. **American Journal of Orthodontics & Dentofacial Orthopedics**, 128(6): 761-765, **2005** Dec.
29. Tai SP, Tsai TH, Lee WJ, **Shieh DB**, Liao YH, Huang HY, Zhang KYJ, Liu HL, Sun CK, "Optical biopsy of fixed human skin with backward-collected optical harmonics signals," **Optics Express,** 13**:** 8231-8242, **2005** Oct.
30. Jou IM, Shiau AL, Chen SY, Wang CR**, Shieh DB,** Tsai CS, Wu CL. Thrombospondin 1 as an effective gene therapeutic strategy in collagen-induced arthritis. **Arthritis & Rheumatism,** 52(1): 339- 344, **2005** Jan.
31. Chang YC, **Shieh DB***, Chang CH, Chen DH. Conjugation of Monodisperse Chitosan-bound Magnetic Nano-carrier with Epirubicin for Targeted Cancer Therapy. **Journal of Biomedical Nanotechnology**, 1(2): 196-201, **2005**.
32. **Shieh DB***, Chou WB, Wei YH, Wong TY, Jin YT (2004). Mitochondrial DNA 4977 bp deletion in paired oral cancer and precancerous lesions revealed by lasermicrodissection and real-time quantitative PCR. **Annals New York Academy of Sciences**, 1011: 154-167, **2004**.
33. Tsai CY, Shiau AL, Cheng PC, **Shieh DB**, Chen DH, Chou CH, Yeh CS, Wu CL. A biological strategy for fabrication of Au:EGFP nanoparticle conjugates retaining bioactivity. **Nano Letters**, 4(7): 1209-1212, **2004**.
34. Jen CP, Chen YH, Fan CS, Yeh CS, Lin YC, **Shieh DB**, Wu CL, Chen DH, Chou CH. A Nonviral Transfection Approach in Vitro: The Design of a Gold Nanoparticle Vector Joint with Microelectro-mechanical Systems. **Langmuir**, 20(4): 1369-1374, **2004**.
35. Chuang SF, Jin YT, Liu JK, Chang CH, **Shieh DB**.Influence of flowable composite lining thickness on class II composite restorations. **Operative Dentistry**, 29(3): 301-308, **2004**.
36. Chung CH, Yang YH, Chang TT, **Shieh DB**, Liu SY, Shieh TY. Relationship of oral lichen planus to Hepatitis C virus in Southern Taiwan. **The Kaohsiung Journal of Medical Sciences**, 20(4): 151-159, **2003**.
37. Chung CH, Wong TY, Shieh TY, **Shieh DB**, Chao SH. Nevoid Basal Cell Carcinoma Syndrome- Clinical Manifestations and Mutation Analysis of a Taiwanese Family. **Journal of the Formosan Medical Association**, 102: 793-797, **2004**.
38. Chang KC, Su IJ, Tsai ST, **Shieh DB**, Jin YT. Pathological features of betel quid-related oral epithelial lesions in Taiwan with special emphasis on the tumor progression and human papillomavirus association. **Oncology-Basel**, 63: 362-369, **2002**.
39. Chen YJ, Jin YT, **Shieh DB**, Tsai ST, Wu LW. Molecular characterization of

angiogenic properties in oral squamous cell carcinoma cells. **Oral Oncology**, 38(7): 699-705, **2002**.

40. Liu JK, Chang LT, Chuang SF, **Shieh DB**. Shear bond strengths of plastic brackets with a mechanical base. **Angle Orthodontist**, 72(2): 141-45, **2002**.
41. Marks PW, Bandura JL, **Shieh DB**, Foernzler D, Beier DR, Kwiatkowski DJ. The spontaneous coat color mutant white nose (wn) maps to murine chromosome 15. **Mammalian Genome**, 10(7): 750-2, **1999**.
42. **Shieh DB**, Godleski J, Herndon JE II, Azuma T, Mercer H, Sugarbaker DJ, Kwiatkowski DJ (1999). Cell motility as a prognostic factor in Stage I nonsmall cell lung carcinoma: the role of gelsolin expression. **Cancer**, 85(1): 47-57, **1999**.
43. Kwiatkowski DJ, Harpole DH Jr., Godleski J, Herndon JE II, **Shieh DB**, Richards W, Blanco R, Xu HJ, Strauss GM, Sugarbaker DJ. Molecular pathologic substaging in 244 stage I non-small-cell lung cancer patients: clinical implications. **Journal of Clinical Oncology**, 16(7): 2468-77, **1998**.
44. Young ST, Yip SW, Cheng HC, **Shieh DB**. 3-Dimensional Surface Digitizer for Facial Contour Capture. **IEEE Engineering in Medicine and Biology Magazine**, 13 (1): 125-128, **1994**.

International Conference papers:

1. Tsai TL, Chuang KS , Hwu JR, Yeh CS, Su WC, **Shieh DB**. Conjugation of Warhead Modified Triplex-Forming Oligonucleotide (TFO) with Gold Nanoparticles for Specific DNA Cleavage. 2007 International Conference on Bionano Sciences (2007-ICONBS), Taipei, Taiwan, 2007 Dec. **(Poster Presentation Award)**
2. **Shieh DB.** Functional nanomaterials for theranostic applications. The Seventh Annual Emerging Information Technology Conference (EITC-2007), Princeton, USA, 2007 Aug. (Invited speaker)
3. **Shieh DB**, Yeh CS, Li PC, Chen DH, Wang CJ, Sun CK, Tzeng Y**.** Functional nanoparticles for theranostic applications. The 7th IEEE International Conference on Nanotechnology (IEEE-NANO 2007 Technical Digest), Hong Kong, China, 2007 Aug. (Invited speaker)
4. **Shieh DB**, Yeh CS, Li PC, Chen DH, Wang CJ, Sun CK, Tzeng Y**.** Functional nanoparticles for theranostic applications. Engineering Conference International 2007 (ECI 2007) - Nanoscience and Nanotechnology for Biological/ Biomedical/ Chemical Sensing, Hong Kong, China, 2007 Jun. (Invited speaker)
5. **Shieh DB,** Wu PC, Tsai TL, Wang WS, Wong TY, Yeh CS. Porous Iron Oxide Nanorods for the Theranostics of Oral Cancers. 85th General Session & Exhibition of the IADR (International Association for Dental Research), New

Orleans, USA, 2007 Mar.

6. **Shieh DB,** Wu PC, Tai SP, Chiu FC, Wong TY, Sun CK. Higher harmonic generation imaging for oral diagnosis. The First World Congress of the International Academy of Oral Oncology (IAOO), Amsterdam, Netherlands, 2007 May.
7. Wu PC, Su CH, Cheng FY, Weng JC, Chen JH, Yeh CS, **Shieh DB**. Modular designed nanoparticles for MRI diagnosis in oral cancer. The First World Congress of the International Academy of Oral Oncology (IAOO), Amsterdam, Netherlands, 2007 May
8. Tsai CL, Wu PC, Wang WS, Yeh CS, **Shieh DB**. Synthesis of porous iron oxide nanorods for drug delivery in oral cancer cells. The First World Congress of the International Academy of Oral Oncology (IAOO), Amsterdam, Netherlands, 2007 May.
9. **Shieh DB,** Whitefield D, Wang SJ, Chen CC, Yu K, Thirumalai D, Yeh CS, Chang JB, Su WC, Abedelnasser A, Li PC, Dong CY. Nanoparticle Enabled Theranostics of Cancer. The 5th Cross-Strait Workshop on Nanoscale Science and Technology, Hong Kong, China, 2006 Dec. (Invited speaker)
10. **Shieh DB,** Yeh CS, Tzeng Y. Modular Designed Functional Nanoparticles for Clinical Theranostics. The MRS 2006 Fall Meeting-Session D2: Nanoparticles, Boston, MA, USA, 2006 Nov.(Invited paper)
11. **Shieh DB**. Translational Research in Nanobioimaging and therapeutics. Sino-Japanese Bilateral Conference on Nano Science Education. Tokyo, Japan, 2006 Nov.(Invited speaker)
12. Chang HJ, **Shieh DB**, Chang YC, Fanchiang JC, Wong TY. Biocompatibility and physical properties of collagen containing glassionomer. 84th General Session & Exhibition of the IADR (International Association for Dental Research), Brisbane, Australia, 2006 Jun-Jul. (**Frechette Competition finalist**)
13. Chen CC, **Shieh DB**, Shih TS, Tai HM, Chang HY. Mitochondrial DNA 4,977-bp deletion and mitochondrial DNA copy number in humans occupationally exposed to *N*,*N*-dimethylformamide. The First East Asia Conference of the ISEE, Taipei, Taiwan, 2006 Apr.
14. Li PC, Wei CW, Liao CK, Chen CD, Pao KC, Wang CR C, Wu YN, **Shieh DB**. Multiple targeting in photoacoustic imaging using bioconjugated gold nanorods. Proceedings of SPIE -- Volume 6086. Photons Plus Ultrasound: Imaging and Sensing 2006: The Seventh Conference on Biomedical Thermoacoustics, Optoacoustics, and Acousto-optics, 60860M (Mar. 6, 2006)
15. Su CH, Wu PC, Weng JC, **Shieh DB**, Yeh CS, Chen JH. The Modified Fe_3O_4-NH_3+ with RGD-4C Ligand for Cancer Cell Targeting MR Contrast Agent,

Proc 14th ISMRM Ann Meeting, Seattle, USA, 2006; No: 1829.

16. **Shieh DB**. Education in Nanobiomedicine : Cross the barrier of discipline. Taiwan Nano-*X* 2006. Taipei, Taiwan, 2006 Sep.
17. **Shieh DB**. Nanotechnology Enabled Theranostics-A Cross Discipline Approach in Taiwan. METS 2006. Taipei, Taiwan, 2006 Sep. (Invited speaker)
18. **Shieh DB**. Bionanomaterials and Nanobiomedicine. The Sixth Annual Emerging Information Technology Conference (EITC-2006), Dallas, USA, 2006 Aug. (Invited speaker & Oral Session Chair)
19. **Shieh DB**, Shao CY, Huang PY, Chang HJ, Wong TY, Chang HC. Gelsolin modulates biophysical properties and invasiveness of oral cancer cells. 84th General Session & Exhibition of the IADR (International Association for Dental Research), Brisbane, Australia, 2006 Jun-Jul. (Oral Session Chair)
20. **Shieh DB**, Yeh CS, Chang WC, Tzeng YH. The Integration of Nanotechnology and Biomedicine for an Educational Program on Nano-Biomedicine at National Cheng Kung University in Taiwan. Symposium W: Education in Materials Science and Engineering. The E-MRS 2006 Spring Meeting (E-MRS - IUMRS - ICEM 06), Nice (France), 2006, May-June. (Invited speaker)
21. **Shieh DB**. Nanotechnology in the diagnostics and therapeutics of oral diseases. 2006 International Conference on Oral Cancer and Betel Quid, Taipei, Taiwan, 2006, Mar. (Invited speaker)
22. **Shieh DB**. Nanomedicine: A Crossdiscipline Pathway Toward Improved Clinical Diagnosis and Therapeutics. 1st IEEE International Conterence on Nano/Micro Engineered and Molecular Systems, Zhuhai, China, 2006 Jan. (Invited speaker & Oral Session Chair)
23. **Shieh DB**, Chen CC, Wei YH, Chang HY. Occupational exposure of N, N-dimethylformamide Is associated with mitochondrial DNA damage. Mitochondria and Life 2005. The 3rd Conference of the Asian Society for Mitochondrial Research and Medicine (ASMRM) and 5th Scientific Conference of the Japanese Society for Mitochondrial Research and Medicine (J-mit), Tokyo, Japan, 2005 Dec. (Invited speaker)
24. **Shieh DB**. Nanotechnology in the Diagnostics and Therapeutics. 2005 Nano Bioengineering International Symposium-- Quantum Dots for Live Cells, in vivo Imaging, and Diagnostics, Chung Yuan Christian University, Taiwan, 2005 Dec. (Invited speaker)
25. **Shieh DB**, Wu CL, Chen DH, Chou CH, Yeh CS. Nanoparticles in the Diagnostics and Therapeutics. The 4th Cross-Strait Workshop on Nanoscale Science and Technology, Lijiang, Yunnan, China, 2005 Aug. (Invited speaker)
26. **Shieh DB**. Targeted simultaneous multi-gene delivery utilizing tumor specific

peptide functionalized nanoparticle with structured DNA complex. NSC-NRC-ITRI Trilateral Workshop on Nanoscience and Nanotechnology, National Science Council, National Research Council Canada, Industrial Technology Research Institute, National Nanoscience and Nanotechnology Program Office, Canadian Trade Office in Taipei, Taipei, Taiwan, 2005 Jun.

27. .**Shieh DB**, Shau JY, Chen IW, Wong TY, Wei TY, Chung CH, Jin YT. Tissue expression profile of gelsolin during oral carcinogensis progression and its functional implications. 10th International Congress on Oral Cancer, Island of Crete, Greece, 2005 Apr. **The Best Basic Science Award** in 10th ICOOC (supported by WHO, ICOOC, HATMC, HCS).
28. **Shieh DB** , Shi XY, Lian CC, Chang CH, Chen DH. Fe@Au nanoparticle displays selective anti oral cancer effect. International Association for Dental Research--83rd IADR/ 34th AADR/ 29th CADR, Baltimore, USA, 2005 Mar.
29. **Shieh DB**. Impact of nanotechnology to clinic medicine. 2003 International workshop on NanoBiotechnology, Industrial Technology Research Institute, Hsin-Chu, Taiwan, 2003 Mar. (Invited speaker)
30. **Shieh DB**, Chou WB, Jin YT, Wei YH. Mitochondrial DNA 4977 bp deletion in paired oral cancer and precancer lesions revealed by laser microdissection and real time quantitative PCR. The first scientific meeting of Asian Society for Mitochondrial Research and Medicine, Seoul, Korea, 2003 Feb. (Invited speaker)

書籍著作:

1. 吳炳慶、謝達斌(民96)，奈微米生醫晶片(專論)，“生醫奈米科技”，教育部「生物及醫學科技人才培育先導型計畫」，生醫奈米科技教學資源中心主編，11月初版，p183-194.
2. 吳炳慶、謝達斌(民96)，生醫奈米的科技產業觀(專論)，“生醫奈米科技”，教育部「生物及醫學科技人才培育先導型計畫」，生醫奈米科技教學資源中心主編，11月初版，p224-234.
3. 張佑民、謝達斌(民96)，奈米粒子的體外毒性測試(實驗)，“生醫奈米科技”，教育部「生物及醫學科技人才培育先導型計畫」，生醫奈米科技教學資源中心主編，11月初版，p295-297.
4. 謝達斌、楊鏡堂、楊宗翰、方偉峰(民96)，微流體生物晶片實作與應用(實驗)，“生醫奈米科技”，教育部「生物及醫學科技人才培育先導型計畫」，生醫奈米科技教學資源中心主編，11月初版，p304-322.
5. 謝達斌(民94)，奈米生醫(應用篇)，“奈米科技－基礎、運用與實作”，南區奈米科技K-12教育發展中心，丁志明等編著，高立出版，2月初版，p321-340.

6. 傅昭銘、謝達斌(民94)，奈米顆粒生醫應用(實作篇)，“奈米科技－基礎、運用與實作”，南區奈米科技K-12教育發展中心，丁志明等編著，高立出版，2月初版，p373-380.
7. Shieh DB(1997), Molecular Genetic Features Affecting The Prognosis in Stage I Non-Small-Cell Lung Cancer: activating mutations of K-Ras; loss of heterozygosity at sites on 3p, 5q, 8p, 9p, 11p, and 17p; and expression of cell-motility-related proteins. D.M.Sc. thesis.

專利：

1. “具水溶性及分散性之氧化鐵奈米粒子及其製造方法”,葉晨聖,陳毓宏,李家瑋,謝達斌，
R.O.C. patent, *#188278, 2003/10/01~2022/12/08* .
2. “水溶性及分散性之氧化鐵奈米粒子的製備與作為磁共振造影顯影劑的應用”,葉晨聖,鄭豐
裕,謝達斌,吳昭良, R.O.C. patent, *#202070, 2004/05/21~2023/07/30.*
3. “Method for preparation of water-soluble and dispersed Iron Oxide nanoparticles and application there of ”, Yeh CS, Cheng FY, Shieh DB, Wu CL, German patent, *#102004035803, 2007/01/18~2022/01/18.*
4. “奈米粒子及長鏈分子自組裝製作可控親疏水性介面之方法(A Novel Method of Self-Assembling Nanoparticles or Long Chain Molecules for the Formation of Surfaces with Controllable Wettability)”, 謝達斌, 楊鏡堂, 蕭宇宏, 楊宗翰, 申請中華民國發明專利(& UA Patent). (申請案號: 096114774, 2007/04/26).
5. “生物自組裝操控液珠及檢測之方法及裝置 (A Novel Method and Control Devices for Droplet Manipulation and Detection by Biomolecule Self Assembly)”, 楊鏡堂, 謝達斌, 邱朝陽, 楊宗翰, 張佑民, 陳逸臨, 申請中華民國發明專利(& UA Patent) (申請案號: 096114775, 2007/04/26).
6. “一種新穎電磁場調控表面親疏水性之方法及裝置(A Novel Method and Control Devices for Changing Wettability on Solid Surface by Electric or Magnetic field)", 楊鏡堂, 謝達斌, 楊宗翰, 方偉峰, 陳逸臨, 張佑民, 申請中華民國發明專利(& UA Patent) (申請案號: 096114772, 2007/04/26).
7. “建立快速配對合成之模組式設計功能性奈米粒子庫之方法暨生物醫學應(Establishment of efficient fabrication system for modular Designed targeting Nanoparticle Library and its biomedical applications)”, 吳炳慶,謝達斌,鄭豐裕,葉晨聖,Jianbing Zhang, R.O.C. patent, 申請中.
8. “以模組化設計標之奈米粒子之設計製作以及其在分子影像暨治療之應(Modular Designed Nanoparticles for molecular imaging and therapeutic applications)” 吳炳慶,謝達斌,鄭豐裕,葉晨聖,Jianbing Zhang, R.O.C. patent, 申請中.