CURRICULUM VITAE

YUK-MING DENNIS LO

SBS MA DM DPhil BM BCh FRCP (Lond. & Edin.) FRCPath
FHKCPath (Hon) FHKCOG (Hon) FHKCP (Hon) FHKAM (Hon)
FRCOG (ad eundem) FRS JP

NAME: Yuk-Ming Dennis Lo

PROFESSIONAL ADDRESS:

Department of Chemical Pathology,
The Chinese University of Hong Kong,
Prince of Wales Hospital,
Shatin, New Territories,
Hong Kong

QUALIFICATIONS AND ELECTED HONORS:

• Bachelor of Arts (Hons)	Cambridge	1986
• Bachelor of Medicine & Bachelor of Surgery	Oxford	1989
• Master of Arts	Cambridge	1990
• Doctor of Philosophy	Oxford	1994
• Member of the Royal College of Physicians	London	1995
• Member of the Royal College of Pathologists	London	1999
• Doctor of Medicine	Oxford	2001
• Fellow of the Royal College of Physicians	Edinburgh	2004
• Fellow of the Royal College of Pathologists	London	2005
• Fellow of the Royal College of Physicians	London	2006
• Honorary Fellow, Hong Kong College of Pathologists	Hong Kong	2011
• Fellow of the Royal Society	London	2011
• Honorary Fellow, Hong Kong College of Obstetricians and Gynaecologists	Hong Kong	2013
• Fellow, The World Academy of Sciences (TWAS)	Trieste	2013
• International Member, US National Academy of Sciences	USA	2013
• Founding Member and Director, Hong Kong Academy of Sciences	Hong Kong	2015
• Justice of the Peace	Hong Kong	2017
• Elected as Fellow *ad eundem*, Royal College of Obstetricians and Gynaecologists	UK	2017
• Elected as Honorary Fellow, Emmanuel College	Cambridge	2017
• Honorary Fellow, Hong Kong Academy of Medicine	Hong Kong	2019
• D. Sc. *honoris causa*, University of Macau	Macau	2019
• D. Sc. *honoris causa*, Open University of Hong Kong	Hong Kong	2020
• Member of Beijing Municipal Committee of the CPPCC	China	2023
• Member of the Chinese Academy of Sciences	China	2023
• Fellow of the National Academy of Inventors	USA	2023
• Honorary Member, the Czech Society of Medical Genetics & Genomics	Czech Republic	2024
• Honorary Member, the Czech Society of Perinatal Medicine	Czech Republic	2024

- Honorary Fellow, Hong Kong College of Physicians Hong Kong 2024

SCHOLARSHIPS AND PRIZES

Professors' Prize, Association of Professors of Academic Departments of Chemical Pathology	2000
Awardee, Outstanding Young Person Selection (Junior Chamber Hong Kong)	2000
Leader of the Year Award, Technology Category (Sing Tao Daily, Hong Kong iMail and CNBC)	2000
Honoree, Outstanding Young Persons of the World (Junior Chamber International)	2001
State Natural Science Award, People's Republic of China	2005
International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) - Abbott Award for Outstanding Contribution to Molecular Diagnostics	2006
U.S. National Academy of Clinical Biochemistry (NACB) Distinguished Scientist Award	2006
Cheung Kong Scholars Achievement Award, Ministry of Education, China	2006
American Association for Clinical Chemistry (AACC) Award for Outstanding Contribution for a Publication in the International Journal *Clinical Chemistry*	2007
Chemical Pioneer Award, American Institute of Chemists	2007
Fulbright Distinguished Scholar Award	2009-10
Sir David Todd Orator, Hong Kong Academy of Medicine	2011
Silver Bauhinia Star, Hong Kong SAR Government	2011
AACC-NACB Award for Outstanding Contributions in a Selected Area of Research	2012
Ernesto Illy Trieste Science Prize, The World Academy of Sciences (TWAS), presented by President HU Jintao of China	2012
Presidential Award, International Society of Blood Transfusion	2014
King Faisal International Prize for Medicine	2014
Pioneer Award, Personalized Medicine World Congress	2015
Wallace H. Coulter Lecturership Award: the most prestigious award from the American Association of Clinical Chemistry	2015
De Watteville Lecturer, International Federation of Gynecology and Obstetrics	2015
Thomson Reuters Citation Laureate in Chemistry	2016
Future Science Prize in Life Science	2016
Honorary Member, Society for Maternal-Fetal Medicine	2017
International Federation of Clinical Chemistry and Laboratory Medicine Distinguished Clinical Chemist Award	2017
WuXi PharmaTech Life Science and Chemistry Awards -	2017

Outstanding Achievements Award	
Listed as “Top 20 Translational Researchers of 2016” by Nature Biotechnology (rank 11th)	2017
Listed as “Top 20 Translational Researchers of 2017” by Nature Biotechnology (rank 5th)	2018
The Chinese Society of Clinical Oncology (CSCO) Annual Achievement Award	2018
The Chinese Association for Science and Technology, USA (CAST-USA) Extraordinary Scientific Innovation Award	2018
Association of Chinese Geneticists in America (ACGA) Excellence in Genetics Research Award	2018
Men of Hope Award: Health Advocate	2018
Award for Biochemical Analytics, German Society for Clinical Chemistry and Laboratory Medicine (DGKL)	2019
Listed as “Top 20 Translational Researchers of 2018” by Nature Biotechnology (rank 6th)	2019
Fudan-Zhongzhi Science Award	2019
2nd National Award for Excellence in Innovation, China Association for Science and Technology	2019
Award for Excellence in Molecular Diagnostics, Association for Molecular Pathology	2020
Listed as “Top 20 Translational Researchers of 2019” by Nature Biotechnology (rank 4th)	2020
Award for Excellence in Molecular Diagnostics 2020, Association for Molecular Pathology	2020
The ESHG Mendel Award 2021, European Society of Human Genetics (ESHG)	2021
Breakthrough Prize in Life Sciences	2021
Royal Medal - biological sciences	2021
Listed as “Top 20 Translational Researchers of 2020” by Nature Biotechnology (rank 7th)	2021
International Society for Prenatal Diagnosis (ISPD) Pioneer in Prenatal Diagnosis and Therapy Award	2022
世界因你而美麗 - 2021-2022 影響世界華人大獎	2022
Lasker-DeBakey Clinical Medical Research Award	2022
“The development of non-invasive prenatal screening based on cell-free DNA analysis in maternal plasma” has been selected by the Chinese Academy of Medical Sciences (CAMS) as one of the three “China’s Major Medical achievements in the 21st Century”	2023
ILCHUN Molecular Medicine Award, Korean Society for Biochemistry and Molecular Biology	2023
Tatler The Global Impact Award	2023
Inaugural Tengchong Science Prize	2023
Golden Medal of the Palacký University in Olomouc, Czech Republic	2024
Jiménez Díaz Lecture Award	2024

British Blood Transfusion Society James Blundell Award	2024

RESEARCH AWARDS

Wellcome Vacation Scholarship	1986
Foulkes Foundation Studentship	1988-9
Royal College of Pathologists Bursary for Elective Studies in Pathology	1988-9
Foulkes Foundation Fellowship	1990-3
Katherine Bishop Harman Award British Medical Association	1990-1
Wellcome Medical Graduate Fellowship	1990-3
Junior Research Fellowship in Medicine, Hertford College, Oxford	1991-4
Croucher Senior Medical Research Fellowship	2006

PROFESSIONAL APPOINTMENTS

Chairman
Department of Chemical Pathology
The Chinese University of Hong Kong
1 January 2009 - present

Chief of Service
Department of Chemical Pathology
Prince of Wales Hospital
1 March 2010 - 31 October 2018

Li Ka Shing Professor of Medicine
Faculty of Medicine
The Chinese University of Hong Kong
1 September 2005 - present

Director
Li Ka Shing Institute of Health Sciences
Faculty of Medicine
The Chinese University of Hong Kong
1 September 2005 - present

Professor of Chemical Pathology
Faculty of Medicine
The Chinese University of Hong Kong
1 October 2003 - present

Associate Dean (Research)
Faculty of Medicine
The Chinese University of Hong Kong
1 August 2002 - present

Reader
Department of Chemical Pathology
The Chinese University of Hong Kong
1 October 2000 - 30 September 2003

Senior Lecturer,
Department of Chemical Pathology
27 January 1997 - 1 October 2000

The Chinese University of Hong Kong

University Lecturer in Clinical Biochemistry, 1994-97
University of Oxford,
Nuffield Department of Clinical Biochemistry,
U.K.

Fellow, 1994-97
Green College,
Oxford,
U.K.

Wellcome Clinician Scientist Fellow, 1993-94
University of Oxford,
Nuffield Department of Clinical Medicine,
U.K.

Wellcome Medical Graduate Fellow, 1990-93
University of Oxford,
Nuffield Department of Pathology & Bacteriology,
U.K.

TEACHING AWARD

- Awardee, Teacher of the Year (Med 3) 2001

PROFESSIONAL SOCIETY MEMBERSHIPS

- Sigma Xi, The Scientific Research Honor Society 2024 - present
- American Association of Clinical Chemistry 1997 - present
- American Society of Human Genetics 1998 - present
- Hong Kong Society of Clinical Chemistry 1997 - present

OTHER PROFESSIONAL CONTRIBUTIONS

- Director, The Council of the Hong Kong Laureate Forum Limited (start from 1 Oct 2024)
- Executive Committee Member, the Jiménez Díaz Commemorative Lecture, Spain
- Advisor, Federation of Hong Kong Industries (FHKI) Industry Group 33 (Biotechnology and Healthcare)
- Honorary Professor, The First Affiliated Hospital, Zhejiang University School of Medicine (FAHZU), China

- Member, Chief Executive's Policy Unit Research Strategy Expert Group, Hong Kong
- Scientific Editor, *Cancer Discovery*
- Life Science Steering Committee Member, Asian Young Scientist Fellowship, China
- Founding President, Hong Kong Alliance of Technology and Innovation
- President, The Hong Kong Academy of Sciences
- Trustee, Croucher Foundation, Hong Kong
- Honorary Professor, Nanjing Medical University, China
- Honorary Professor, Sun Yat-sen University, China
- Past Associate Editor, *Clinical Chemistry*, the official journal of the American Association for Clinical Chemistry
- Past Senior Editor, *eLife*
- Editorial Board Member, *Cancer Communications*
- Editorial Board Member, *Journal of Pathology*
- Past Editorial Board Member, *Prenatal Diagnosis*
- Past Editorial Board Member, *Disease Markers*
- Past Editorial Board Member, *Philosophical Transactions of the Royal Society B*
- Past Editorial Board Member, *Journal of Genomes and Exomes*
- Past Editorial Board Member, *Marrow*
- Past Editorial Board Member, *American Journal of Hematology*
- Past Selection Committee Member, Esther Yewpick Lee Millennium Scholarships to University of Oxford
- Asian-Pacific Federation of Clinical Biochemistry Travelling Lecturer 2001-2002
- PathCentre Visiting Lecturer 2002, Perth, Australia
- President, Hong Kong Society of Clinical Chemistry (2001-2003)
- Council Member, Hong Kong Research Grants Council (2006-2011)
- Board Member, Hong Kong Science and Technology Parks Limited (2003-2005)
- Executive Committee Member, Outstanding Young Persons' Association (2001-2002)

PUBLICATIONS

ORIGINAL REPORTS

1. **Lo YMD**, Mehal WZ, Fleming KA. False-positive results and the polymerase chain reaction. ***Lancet*** 1988; ii: 679.

2. **Lo YMD**, Mehal WZ, Fleming KA. Rapid production of vector-free biotinylated probes using the polymerase chain reaction. ***Nucleic Acids Research*** 1988; 16: 8719.

3. **Lo YMD**, Mehal WZ, Fleming KA. In vitro amplification of hepatitis B virus sequences from liver tumour DNA and from paraffin wax embedded tissues using the polymerase chain reaction. ***Journal of Clinical Pathology*** 1989; 42: 840-846.

4. **Lo YMD**, Patel P, Wainscoat JS, Sampietro M, Gillmer MDG, Fleming KA. Prenatal sex determination by DNA amplification from maternal peripheral blood. ***Lancet*** 1989; ii: 1363-1365.

5. **Lo YMD**, Patel P, Sampietro M, Gillmer MDG, Fleming KA, Wainscoat JS. Detection of a single-copy fetal DNA sequence from maternal blood. ***Lancet*** 1990; 335: 1463-1464.

6. **Lo YMD**, Lo E-SF, Patel P, Tse CH, Fleming KA. Heteroduplex formation as a means to exclude contamination in virus detection using PCR. ***Nucleic Acids Research*** 1991; 19: 6653.

7. **Lo YMD**, Mehal WZ, Wordsworth BP, Chapman RW, Fleming KA, Bell JI, Wainscoat JS. HLA typing by double ARMS. ***Lancet*** 1991 338: 65-66.

8. **Lo YMD**, Patel P, Newton CR, Markham AF, Fleming KA, Wainscoat JS. Direct haplotype determination by double ARMS: specificity, sensitivity and genetic applications. ***Nucleic Acids Research*** 1991; 19: 3561-3567.

9. Patel P, **Lo YMD**, Bell GI, Turner RC, Wainscoat JS. Dinucleotide repeat polymorphism at the human GLUT2 locus. ***Nucleic Acids Research*** 1991; 19: 4017.

10. *Stoffel M, *Patel P, ***Lo YMD**, Hattersley AT, Lucassen AM, Bell JI, Bell GI, Turner RC, Wainscoat JS. Characterisation of a missense glucokinase mutation in maturity-onset diabetes of the young (MODY) and mutation screening in late-onset diabetes. ***Nature Genetics*** 1992; 2: 153-156. (*equal first authors)

11. Hattersley AT, **Lo YMD**, Reid SJ, Eglin RP, Wainscoat JS, Clark A. Failure to detect cytomegalovirus DNA in pancreas in type 2 diabetes. ***Lancet*** 1992; 339: 459-460.

12. Lo ES-F, **Lo YMD**, Tse CH, Fleming KA. Detection of a hepatitis B pre-core mutant by allele specific polymerase chain reaction. ***Journal of Clinical Pathology*** 1992; 45: 689-692.

13. **Lo YMD**, Patel P, Mehal WZ, Fleming KA, Bell JI, Wainscoat JS. Analysis of complex genetic systems by ARMS-SSCP: application to HLA genotyping. ***Nucleic Acids Research*** 1992; 20: 1005-1009.

14. Patel P, **Lo YMD**, Bell JI, Wainscoat JS. Detection of susceptibility alleles to insulin-dependent diabetes mellitus at the DQB1 locus by artificial PCR-RFLP. ***Immunogenetics*** 1992; 36: 264-265.

15. Patel P, **Lo YMD**, Hattersley AT, Bell GI, Tybjaerg-Hansen A, Nerup J, Turner RC, Wainscoat JS. Linkage analysis of maturity-onset diabetes of the young with microsatellite polymorphisms: no linkage to ADA or GLUT2 genes in two families. ***Diabetes*** 1992; 41: 962-967.

16. Yap EP-H, **Lo YMD**, Cooper K, Fleming KA, McGee JO'D. False positive viral diagnosis by PCR: exclusion by single stranded conformation polymorphism (SSCP). ***Lancet*** 1992; 340: 736.

17. Gidh-Jain M, Takeda J, Wu LZ, Lange AJ, Vionnet N, Stoffel M, Velho G, Sun F, Cohen D, Froguel Ph, Patel P, **Lo YMD,** Hattersley AT, Luthman H, Wedell A, St Charles R, Harrison RW, Weber IT, Bell GI, Pilkis SJ. Glucokinase mutations associated with non-insulin-dependent (Type 2) diabetes mellitus have decreased enzymatic activity: Implications for structure/function relationships**.** ***Proceedings of the National Academy of Sciences of the United States of America*** 1993; 90: 1932-1936.

18. **Lo YMD**, Bowell PJ, Selinger M, MacKenzie IZ, Chamberlain P, Gillmer MDG, Littlewood TJ, Fleming KA, Wainscoat JS. Prenatal determination of fetal RhD status by analysis of peripheral blood of rhesus negative mothers. ***Lancet*** 1993; 341: 1147-1148.

19. **Lo YMD**, Lo ES-F, Mehal WZ, Sampietro M, Fiorelli G, Ronchi G, Tse CH, Fleming KA. Geographical variation in prevalence of hepatitis B virus DNA in HBsAg negative patients. ***Journal of Clinical Pathology*** 1993; 46: 304-308

20. **Lo YMD**, Patel P, Baigent CN, Gillmer MDG, Chamberlain P, Travi M, Sampietro M, Wainscoat JS, Fleming KA. Prenatal sex determination from maternal peripheral blood using the polymerase chain reaction. ***Human Genetics*** 1993; 90: 483-488.

21. **Lo YMD**, Roux E, Jeannet M, Chapuis B, Fleming KA, Wainscoat JS. Detection of chimaerism after bone marrow transplantation using the double amplification refractory mutation system. ***British Journal of Haematology*** 1993; 85: 223-226.

22. Mehal WZ, Esiri MM, **Lo YMD**, Chapman RW, Fleming KA. Detection of reactivation and size variation in the regulatory region of JC virus in brain tissue. ***Journal of Clinical Pathology*** 1993; 46: 646-649.

23. Patel P, **Lo YMD**, Bell JI, Wainscoat JS. Rapid HLA typing by multiplex amplification refractory mutation system. ***Journal of Clinical Pathology*** 1993; 46: 1105-1108.

24. **Lo YMD**, Bowell PJ, Selinger M, MacKenzie IZ, Elliott P, Chamberlain P, Gillmer MDG, Littlewood TJ, Fleming KA, Wainscoat JS. Prenatal determination of fetal rhesus D status by DNA amplification of peripheral blood of rhesus negative mothers. ***Annals of the New York Academy of Sciences*** 1994; 731: 229-236.

25. **Lo YMD**, Fleming KA, Wainscoat JS. Strategies for the detection of autosomal fetal DNA sequence from maternal peripheral blood. ***Annals of the New York Academy of***

Sciences 1994; 731: 204-213.

26. **Lo YMD**, Morey AL, Wainscoat JS, Fleming KA. Culture of fetal erythroid cells from maternal peripheral blood. ***Lancet*** 1994; 344: 264-265.

27. **Lo YMD**, Noakes L, Bowell PJ, Fleming KA, Wainscoat JS. Detection of fetal RhD sequence from peripheral blood of sensitised RhD-negative pregnant women. ***British Journal of Haematology*** 1994; 87: 658-660.

28. **Lo YMD**, Schmidtke J, Wainscoat JS, Fleming KA. An improved PCR-based system for prenatal sex determination from maternal peripheral blood. ***Annals of the New York Academy of Sciences*** 1994; 731: 214-216.

29. Mehal WZ, Gregory WL, **Lo YMD**, Cross SJ, Fleming KA, Bassendine MF, James OFW, Campbell RD, Chapman RW, Rosenberg WMC. Defining the immunogenetic susceptibility to primary biliary cirrhosis. ***Hepatology*** 1994; 20: 1213-1219.

30. Mehal WZ, **Lo YMD**, Herrington CS, Evans MF, Papadopoulos MC, Odunsi K, Ganesan TS, McGee JOD, Bell JI, Fleming KA. Human papillomavirus plays an important role in determining the HLA associated risk of cervical carcinogenesis. ***Journal of Clinical Pathology*** 1994; 47: 1077-1081.

31. Mehal WZ, **Lo YMD**, Wordsworth BP, Neuberger JM, Hubscher SC, Fleming KA, Chapman RW. HLA DR4 is a marker for rapid disease progression in primary sclerosing cholangitis. ***Gastroenterology*** 1994; 106: 160-167.

32. Page RCL, Hattersley AT, Levy LC, Barrow B, Patel P, **Lo D**, Wainscoat JS, Permutt MA, Bell GI, Turner RC. Clinical characteristics of subjects with a missense mutation in glucokinase. ***Diabetic Medicine*** 1994; 12: 209-217.

33. Horton VA, Bunce M, Davies DR, Turner RC, **Lo YMD**. HLA typing for DR3 and DR4 using artificial restriction fragment length polymorphism PCR from archival DNA. ***Journal of Clinical Pathology*** 1995; 48: 33-36.

34. **Lo YMD,** Darby S, Noakes L, Whitley E, Silcocks PBS, Fleming KA, Bell JI. Screening for codon 249 p53 mutation in lung cancer associated with domestic radon exposure. ***Lancet*** 1995; 345: 60.

35. **Lo YMD**, Noakes L, Roux E, Jeannet M, Chapuis B, Fleming KA, Wainscoat JS. Application of a polymorphic Y microsatellite to the detection of post bone marrow transplantation chimaerism. ***British Journal of Haematology*** 1995; 89: 645-649.

36. Waggott W, **Lo YMD**, Bastard C, Gatter KC, Leroux D, Mason DY, Boultwood J, Wainscoat J. Detection of NPM-ALK DNA rearrangement in CD30 positive anaplastic large-cell lymphoma. ***British Journal of Haematology*** 1995; 89: 905-907.

37. **Lo YMD**, Lo ESF, Watson N, Noakes L, Sargent IL, Baskaran T, Wainscoat JS. Two-way cell traffic between mother and fetus: biologic and clinical implications. ***Blood*** 1996; 88: 4390-4395.

38. Saker PJ, Hattersley AT, Barrow B, Hammersley MS, McLellan JA, **Lo YMD,** Old RJ, Gillmer MD, Holman RR, Turner RC. High prevalence of a missense mutation of the

glucokinase gene in gestational diabetic patients due to a founder effect in a local population. ***Diabetologia*** 1996; 11: 1325-1328.

39. **Lo YMD**, Corbetta N, Chamberlain PF, Rai V, Sargent IL, Redman CWG, Wainscoat JS. Presence of fetal DNA in maternal plasma and serum. ***Lancet*** 1997; 350: 485-487

40. Lo ESF, **Lo YMD**, Hjelm NM, Thilaganathan B. Transfer of nucleated maternal cells into fetal circulation during the second trimester of pregnancy. ***British Journal of Haematology*** 1998; 100: 605-606.

41. **Lo YMD**, Tein MSC, Pang CCP, Yeung CK, Tong KL, Hjelm NM. Presence of donor-specific DNA in plasma of kidney and liver transplant recipients. ***Lancet*** 1998; 351: 1329-1330.

42. **Lo YMD**, Tein MSC, Lau TK, Haines CJ, Leung TN, Poon PMK, Wainscoat JS, Johnson PJ, Chang AMZ, Hjelm NM. Quantitative analysis of fetal DNA in maternal plasma and serum: implications for noninvasive prenatal diagnosis. ***American Journal of Human Genetics*** 1998; 62: 768-775.

43. **Lo YMD**, Hjelm NM, Fidler C, Sargent IL, Murphy MF, Chamberlain PF, Poon PMK, Redman CWG, Wainscoat JS. Prenatal diagnosis of fetal RhD status by molecular analysis of maternal plasma. ***New England Journal of Medicine*** 1998; 339: 1734-1738.

44. Leung TN, Zhang J, Lau TK, Hjelm NM, **Lo YMD**. Maternal plasma fetal DNA as a marker for preterm labour. ***Lancet*** 1998; 352: 1904-1905.

45. **Lo YMD**, Zhang J, Leung TN, Lau TK, Chang AMZ, Hjelm NM. Rapid clearance of fetal DNA from maternal plasma. ***American Journal of Human Genetics*** 1999; 64: 218-224.

46. Wong IHN, **Lo YMD**, Zhang J, Liew CT, Ng MHL, Wong, N, Lai PBS, Lau WY, Hjelm NM, Johnson PJ. Detection of aberrant p16 methylation in the plasma and serum of liver cancer patients. ***Cancer Research*** 1999; 59: 71-73.

47. **Lo YMD**, Leung TN, Tein MSC, Sargent IL, Zhang J, Lau TK, Haines CJ, Redman CWG. Quantitative abnormalities of fetal DNA in maternal serum in pre-eclampsia. ***Clinical Chemistry*** 1999; 45: 184-188.

48. **Lo YMD**, Chan LYS, Lo KW, Leung SF, Zhang J, Chan ATC, Lee JCK, Hjelm NM, Johnson PJ, Huang DP. Quantitative analysis of cell-free Epstein-Barr virus DNA in the plasma of patients with nasopharyngeal carcinoma. ***Cancer Research*** 1999; 59: 1188-1191.

49. Lo KW, **Lo YMD**, Leung SF, Tsang YS, Chan LYS, Johnson PJ, Hjelm NM. Analysis of cell-free Epstein-Barr Virus-associated RNA in the plasma of patients with nasopharyngeal carcinoma. ***Clinical Chemistry*** 1999; 45: 1292-1294.

50. Zhang J, Tong KL, Li PKT, Chan AYW, Yeung CK, Pang CP, Wong TYH, Lee KC, **Lo YMD**. Molecular analysis of donor- and recipient-derived DNA in cell-free urine samples from renal transplantation recipients: urinary DNA chimerism. ***Clinical Chemistry*** 1999; 45:1741-1746.

51. **Lo YMD**, Lau TK, Zhang J, Leung TN, Chang AMZ, Hjelm NM, Elmes RS, Bianchi DW. Increased fetal DNA concentration in the plasma of pregnant women carrying fetuses with trisomy 21. ***Clinical Chemistry*** 1999; 45:1747-1751.

52. **Lo YMD**, Wong IHN, Zhang J, Tein MSC, Ng MHL, Hjelm NM. Quantitative analysis of aberrant *p16* methylation using real-time quantitative methylation-specific polymerase chain reaction. ***Cancer Research*** 1999; 59:3899-3903.

53. **Lo YMD**, Chan LYS, Chan ATC, Leung SF, Lo KW, Zhang J, Lee JCK, Hjelm NM, Johnson PJ, Huang DP. Quantitative and temporal correlation between circulating cell-free Epstein-Barr virus DNA and tumor recurrence in nasopharyngeal carcinoma. ***Cancer Research*** 1999; 59:5452-5455.

54. Tang NL, Leung TN, Zhang J, Lau TK, **Lo YMD**. Detection of fetal-derived paternally inherited X-chromosome polymorphisms in maternal plasma. ***Clinical Chemistry*** 1999; 45: 2033-2035.

55. Ng MC, Cockburn BN, Lindner TH, Yeung VT, Chow CC, So WY, Li JK, **Lo YMD**, Lee ZS, Cockram CS, Critchley JA, Bell GI, Chan JCN. Molecular genetics of diabetes mellitus in Chinese subjects: identification of mutations in glucokinase and hepatocyte nuclear factor-1 alpha genes in patients with early-onset type 2 diabetes mellitus/MODY. ***Diabetic Medicine*** 1999; 16: 956-963.

56. **Lo YMD**, Rainer TH, Chan LYS, Hjelm NM, Cocks RA. Plasma DNA as a prognostic marker in trauma patients. ***Clinical Chemistry*** 2000; 46: 319-323.

57. **Lo YMD**, Leung SF, Chan LYS, Lo KW, Zhang J, Chan ATC, Lee JCK, Hjelm NM, Johnson PJ, Huang DP. Plasma cell-free Epstein-Barr virus DNA quantitation in patients with nasopharyngeal carcinoma: correlation with clinical staging. ***Annals of the New York Academy of Sciences*** 2000; 906: 99-101.

58. Zhang J, Fidler C, Murphy MF, Chamberlain PF, Sargent IL, Redman CWG, Hjelm NM, Wainscoat JS, **Lo YMD**. Determination of fetal RhD status by maternal plasma DNA analysis. ***Annals of the New York Academy of Sciences*** 2000; 906: 153-155.

59. **Lo YMD**, Leung SF, Chan LYS, Chan ATC, Lo KW, Johnson PJ, Huang DP. Kinetics of plasma Epstein-Barr virus DNA during radiation therapy for nasopharyngeal carcinoma. ***Cancer Research*** 2000; 60: 2351-2355.

60. Zhong S, Ng MC, **Lo YMD**, Chan JC, Johnson PJ. Presence of mitochondrial tRNA (Leu(UUR)) A to G 3243 mutation in DNA extracted from serum and plasma of patients with type 2 diabetes mellitus. ***Journal of Clinical Pathology*** 2000; 53: 466-469.

61. **Lo YMD**, Lau TK, Chan LYS, Leung TN, Chang AMZ. Quantitative analysis of the bidirectional fetomaternal transfer of nucleated cell and plasma DNA. ***Clinical Chemistry*** 2000; 46: 1301-1309.

62. Wong IHN, **Lo YMD**, Lai PBS, Johnson PJ. Relationship of p16 methylation status and serum alpha-fetoprotein concentrations in hepatocellular carcinoma patients. ***Clinical Chemistry*** 2000; 46: 1420-1422.

63. Lau TK, Lo KW, Chan LYS, Leung TY, **Lo YMD**. Cell-free fetal deoxyribonucleic acid in maternal circulation as a marker of fetal maternal hemorrhage in patients undergoing external cephalic version near term. ***American Journal of Obstetrics and Gynecology*** 2000; 183: 712-716.

64. Wong IHN, **Lo YMD**, Yeo W, Lau WY, Johnson PJ. Frequent p15 promoter methylation in tumor and peripheral blood from hepatocellular carcinoma patients. ***Clinical Cancer Research*** 2000; 6: 3516-3521.

65. Poon LLM, Leung TN, Lau TK, **Lo YMD**. Presence of fetal RNA in maternal plasma. ***Clinical Chemistry*** 2000; 46: 1832-1834.

66. Lei KI, Chan LYS, Chan WY, Johnson PJ, **Lo YMD**. Quantitative analysis of circulating cell-free Epstein-Barr virus (EBV) DNA levels in patients with EBV-associated lymphoid malignancies. ***British Journal of Haematology*** 2000; 111: 239-246.

67. Lam CW, Yeung WL, Ko CH, Poon PM, Tong SF, Chan KY, Lo IF, Chan LY, Hui J, Wong V, Pang CP, **Lo YMD**, Fok TF. Spectrum of mutations in the MECP2 gene in patients with infantile autism and rett syndrome. ***Journal of Medical Genetics*** 2000; 37: E41.

68. Wong IHN, Johnson PJ, Lai PB, Lau WY, **Lo YMD**. Tumor-derived epigenetic changes in the plasma and serum of liver cancer patients. Implications for cancer detection and monitoring. ***Annals of the New York Academy Sciences*** 2000; 906: 102-105.

69. Poon LLM, Leung TN, Lau TK, **Lo YMD**. Prenatal detection of fetal Down's syndrome from maternal plasma. ***Lancet*** 2000; 356: 1819-1820.

70. **Lo YMD**, Chan AT, Chan LYS, Leung SF, Lam CW, Huang DP, Johnson PJ. Molecular prognostication of nasopharyngeal carcinoma by quantitative analysis of circulating Epstein-Barr virus DNA. ***Cancer Research*** 2000; 60: 6878-6881.

71. Lam CW, Mak YT, **Lo YMD**, Tong SF, To KF, Lai FM. Molecular genetic analysis of a Chinese patient with Fabry disease. ***Chinese Medical Journal*** 2000; 113: 186-188.

72. Leung TN, Zhang J, Lau TK, Chan LYS, **Lo YMD**. Increased maternal plasma fetal DNA concentrations in women who eventually develop preeclampsia. ***Clinical Chemistry*** 2001; 47: 137-139.

73. Chiu RW, Murphy MF, Fidler C, Zee BC, Wainscoat JS, **Lo YMD**. Determination of RhD zygosity: comparison of a double amplification refractory mutation system approach and a multiplex real-time quantitative PCR approach. ***Clinical Chemistry*** 2001; 47: 667-672.

74. **Lo YMD**, Chan WY, Ng EK, Chan LYS, Lai PB, Tam JS, Chung SC. Circulating Epstein-Barr virus DNA in the serum of patients with gastric carcinoma. ***Clinical Cancer Research*** 2001; 7: 1856-1859.

75. Chiu RW, Poon LLM, Lau TK, Leung TN, Wong EM, **Lo YMD**. Effects of blood-processing protocols on fetal and total DNA quantification in maternal plasma. ***Clinical***

Chemistry 2001; 47: 1607-1613.

76. Chiu RW, Murphy MF, Fidler C, Wainscoat JS, **Lo YMD**. Technical optimisation of RhD zygosity determination by real-time quantitative polymerase chain reaction: implication for fetal RhD status determination by maternal plasma. ***Annals of the New York Academy of Sciences*** 2001; 945: 156-160.

77. Gal S, Fidler C, **Lo YMD**, Chin K, Moore J, Harris AL, Wainscoat JS. Detection of mammaglobin mRNA in the plasma of breast cancer patients. ***Annals of the New York Academy of Sciences*** 2001; 945: 192-194.

78. Poon LLM, Leung TN, Lau TK, **Lo YMD**. Circulating fetal RNA in maternal plasma. ***Annals of the New York Academy of Sciences*** 2001; 945: 207-210.

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