

# Curriculum Vitae

## Dimitrios N. Melegos

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### ADDRESSES

#### **Home**

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#### **Work**

Mount Sinai Hospital - Samuel Lunenfeld Research Institute  
Department of Pathology & Laboratory Medicine  
600 University Ave., Toronto, Ontario M5G 1X5  
Tel #: (416) 586-8813 Fax #: (416) 586-3212 or 586-8628  
E-mail: DMelegos@mtsinai.on.ca

### DATE AND PLACE OF BIRTH

August 19, 1971 in Tripoli, Greece.

### CITIZENSHIP

Canadian, and Greek.

### EDUCATION

**Pedagogic Academia**, Tripolis, Arcadia, Greece.  
Primary and Elementary Education.

**Kipling Collegiate Institute**, Etobicoke, Ontario, Canada.  
Graduated 1990, Ontario Secondary School Diploma (OSSD), Principal's honour roll, varsity soccer.

**University of Toronto**, St. George Campus, New College, Toronto, Ontario, Canada.  
Graduated in 1995, Bachelor of Science (B.Sc.) Specialist in Human Biology.

**University of Toronto**, St. George Campus, Banting Institute, Toronto, Ontario, Canada.  
Master of Science candidate (Special student), Department of Clinical Biochemistry, Faculty of Medicine (1995-96 academic session).

**University of Toronto**, Ontario Institute for Studies in Education, Toronto, Ontario, Canada. Admitted in 1998, Bachelor of Education (B.Ed.) specializing in teaching secondary level biology, chemistry, physics and mathematics, Pre-service Teacher Education Program, Faculty of Education. Graduation anticipated in June 1999.

### **AWARDS AND DISTINCTIONS**

1. City of Etobicoke Honour Student (Among the top 300 senior students in 1990).
2. Richview Residence Association Scholarship Award (1990).
3. University of Toronto Undergraduate Summer Scholarship Award through the Life Sciences Committee (1994) and (1995).
4. Best Abstract Award through the 1st International and 21st National Conference of the Clinical Ligand Assay Society (Toronto, Ontario, Canada, 1995).
5. American Association for Clinical Chemistry (AACC) National Meeting Travel Grant Award (Chicago, IL., U.S.A., 1996).

### **CERTIFICATES**

1. St. John's Ambulance CPR Certification, and Standard First Aid Certificate, 1992.
2. The University of Michigan, Certificate of Proficiency in English, 1996.
3. Hewlett Packard Certificate of Achievement, HP1100 Troubleshooting & Maintenance, 1997.

### **LANGUAGES**

Fluent in written and spoken Greek.

### **PRESENT POSITION**

Research Assistant, Department of Pathology & Laboratory Medicine, Mount Sinai Hospital, Toronto, Ontario, Canada.

### **WORK CHRONOLOGY** (not complete)

**Mount Sinai Hospital-Samuel Lunenfeld Research Institute**, Toronto, Ontario, Canada.

Department of Pathology and Laboratory Medicine

Research Technician (Part-time) from Jan. 1995 to Dec. 1995

Research Coordinator: Linda Grass, B.Sc., M.T. Tel. # (416) 586-5913.

**The Toronto Hospital**, Toronto, Ontario, Canada.

Department of Clinical Biochemistry Research

Period: May 1994-Dec. 1994

Approval in participating in a research project

Supervisor: Dr. E.P. Diamandis, M.D., Ph.D. Tel. # (416) 586-8443.

**Ontario Teachers' Pension Plan Board** (Xerox Tower), North York, Ontario, Canada.

Department of Resource Services, Data Integrity

Pension recalculation project

Contract position from May 16, 1994 to Aug. 26, 1994  
Manager: Sam Spada. Tel. # (416) 730-5099.

**The Queen Elizabeth Hospital**, Toronto, Ontario, Canada.  
Department of Clinical Biochemistry  
Approval in participating in an Externship Program  
Sponsor: Ms. Sally Salmastlian. Tel. # (416) 530-2110  
Period: Feb. 14 to Feb. 18, 1994.

**St. Michael's Hospital**, Toronto, Ontario, Canada.  
Department of Nuclear Medicine  
Summer 1992 student volunteer program  
clerical position, technician's assistant.

**Baker's Dozen Donuts Corporation**, Brampton, Ontario, Canada.  
Period: 1990-1992  
Positions: Part-time manager (winters).

**Panarcadikon General Hospital**, Tripoli, Arcadia, Greece.  
Central Laboratories  
General observation of routine analytical procedures  
Sponsor: Konstantina Tyrovola, Charge Medical Technologist  
Period: July 1990.

**The Bitove Corporation**, Lester B. Pearson International Airport, Toronto AMF, Ontario, Canada.

Department: Main Cafeteria Sector, Terminal 2, Tel # 678-2643  
Period: 1988-1990. Positions: Cashier, Snack bar attendant.

**Dr. Penny McCahill, Ed.D (O.I.S.E.)**, Ottawa, Ontario, Canada.  
Period: Nov. 1986-Jan 1987

Participated with her doctoral research project at the Ontario Institute for Studies  
in Education, University of Toronto. Tel # 1(613) 789-6716.

## **PERSONAL DATA**

My hobbies include pencil drawing, model creations, billiard playing, rollerblading, soccer, tennis, street hockey, ice-skating, squash, skiing, photography, and internet surfing. Member of the American Association for Clinical Chemists (A.A.C.C.). Former active member of the Youth Science Academy, Royal Canadian Institute, and of the Greek Student Association of University of Toronto.

## **PUBLICATIONS**

### **Editorials**

1. Diamandis E.P., Yu H., and Melegos D.N. Ultrasensitive prostate specific antigen assays and their clinical application. *Clin Chem* 42(6):853-7 (1996).

### Original Research Publications

1. **Melegos D.N.**, Yu H., Allen L.C., and Diamandis E.P. Prostate specific antigen in amniotic fluid of normal and abnormal pregnancies. *Clin Biochem* 29(6):555-62 (1996).
2. **Melegos D.N.**, Yu H., and Diamandis E.P. Prostaglandin D<sub>2</sub> synthase: A component of human amniotic fluid and its association with fetal abnormalities. *Clin Chem* 42(7):1042-50 (1996).
3. **Melegos D.N.**, and Diamandis E.P. Diagnostic value of molecular forms of prostate specific antigen for female breast cancer. *Clin Biochem* 29(3):193-200 (1996).
4. **Melegos D.N.**, Diamandis E.P., Oda H., Urade Y., and Hayaishi O. Immunofluorometric assay of Prostaglandin D synthase in human tissue extracts and fluids. *Clin Chem* 42(12):1984-91 (1996).
5. **Melegos D.N.**, Yu H., Ashok M., Wang C., Stanczyk F., and Diamandis E.P. Prostate specific antigen in female serum, a potential new marker of androgen excess. *J Clin Endocrinol Metab* 82(3):777-80 (1997).
6. Diamandis E.P., Nadkarni S., Bhaumik B., Abdelrahman A., **Melegos D.N.**, Borchert G., Black M.H., Alonso M., Salas A., de los Toyos J.R., Sampedro A., and Lopez-Otin C. Immunofluorometric assay of Pepsinogen C and preliminary clinical applications. *Clin Chem* 43(8):1365-71 (1997).
7. Lianidou E.S., **Melegos D.N.**, and Diamandis E.P. The BRCA 1 tumor suppressor gene product shares immunoreactive epitopes with a protein present in seminal plasma. *Clin Biochem* 30(5):425-32 (1997).
8. **Melegos D.N.**, Freedman M.S., and Diamandis E.P. Prostaglandin D synthase concentration in cerebrospinal fluid and serum of patients with neurological disorders. *Prostaglandins* 54 (1): 463-74 (1997).
9. Borchert G.H., **Melegos D.N.**, Tomlinson G., Giali M., Roagna R., Ponzzone R., Sgro L., and Diamandis E.P. Molecular forms of prostate-specific antigen in the serum of women with benign and malignant breast diseases. *Br J Cancer* 76(8): 1087-94 (1997).
10. Lambert-Messerlian G.M., Canick J.A., **Melegos D.N.**, and Diamandis E.P. Increased concentrations of prostate-specific antigen in maternal serum from pregnancies affected by fetal Down syndrome. *Clin Chem* 44(2):205-8 (1998).
11. Kogan I., Ballinger J.R., Redshaw R., Diamandis E.P., **Melegos D.N.**, Kuba R.M., and Rauth A.M. Prostate-specific antigen induction by a steroid hormone in T47D cells growing in SCID mice. *Breast Cancer Res Treat* 48(1):73-80 (1998).
12. Katsaros D., **Melegos D.N.**, and Diamandis E.P. Prostate specific antigen production by breast tumors after induction with oral contraceptives. *Clin Biochem* 31(2):[In Press] (1998).
13. Diamandis E.P., Arnett W.P., Foussias G., Pappas H., Ghandi S., **Melegos D.N.**, Mullen B., Yu H., Srigley J., and Jarvi K. Prostaglandin D synthase is secreted by the sertoli cells and its seminal plasma concentration is associated with sperm quality in humans. [Submitted] (1998).
14. Diamandis E.P., Helle S.I., Yu H., **Melegos D.N.**, Lundgren S., and Lonning P.E. Prognostic value of plasma Prostate specific antigen following Megestrol acetate treatment in patients with metastatic breast cancer. [Submitted] (1998).

15. **Melegos D.N.**, Grass L., Pierratos A., and Diamandis E.P. Highly elevated levels of Prostaglandin D synthase in the serum of patients with renal failure. [Submitted] (1998).
16. Borchert G.H., **Melegos D.N.**, Yu H., Giai M., Roagna R., Ponzzone R., Sgro L., and Diamandis E.P. Quantification of Pepsinogen C and Prostaglandin D synthase in breast cyst fluid and their potential utility for cyst type classification. [Submitted] (1998).
17. Angelopoulou K., Borchert G., **Melegos D.N.**, Lianidou E., Lilja H., and Diamandis E.P. Characterization of the BRCA1-like immunoreactivity of human seminal plasma. [Submitted] (1998).

#### Letters to the Editor

1. **Melegos D.N.**, Freedman M.S., and Diamandis E.P. Prostate-specific antigen in cerebrospinal fluid. *Clin Chem* 43(5):855 (1997).
2. **Melegos D.N.**, and Diamandis E.P. Is Prostate-specific antigen present in female serum ? *Clin Chem* 44(3):691-2 (1998).
3. **Melegos D.N.**, Grass L., and Diamandis E.P. Prostate-specific antigen immunoreactivity is absent in steroid stimulated SK-N-BE and SK-N-MC neuroblastoma cell lines. [Submitted] (1998).

#### Abstracts

1. **Melegos D.N.**, Yu H., Allen L.C., and Diamandis E.P. Prostate specific antigen in amniotic fluid and maternal serum. Possible associations with fetal abnormalities. *J Clin Ligand Assay* 18(1):66 (1995).
2. **Melegos D.N.**, Yu H., Allen L.C., and Diamandis E.P. A possible association between fetal abnormalities and levels of prostate specific antigen in amniotic fluid. *Clin Biochem* 28:341 (1995).
3. **Melegos D.N.**, Yu H., Allen L.C., and Diamandis E.P. Prostate specific antigen in amniotic fluid and maternal serum. Possible associations with fetal abnormalities. *Clin Chem* 41(S6):39 (1995).
4. **Melegos D.N.**, Yu H., and Diamandis E.P. Prostaglandin D2 synthase in amniotic fluid: possible association with fetal abnormalities. *Clin Chem* 42(S6):238 (1996).
5. **Melegos D.N.**, and Diamandis E.P. Diagnostic value of molecular forms of prostate specific antigen for female breast cancer. *Clin Chem* 42(S6):238 (1996).
6. Borchert G.H., **Melegos D.N.**, and Diamandis E.P. Molecular forms of prostate specific antigen in serum of normal women, women with benign breast disease, and women with breast cancer. *Breast Cancer Res Treat* 41(3):231 (1996).
7. Diamandis E.P., **Melegos D.N.**, Oda H., Urade Y., and Hayaishi O. Prostaglandin D synthase: Development of analytical methodology and preliminary clinical studies. *Prostaglandins Leukotrienes and Essential Fatty Acids* 55:57 (1996).
8. Kogan I., Ballinger J.R., Diamandis E.P., **Melegos D.N.**, and Rauth A.M. Prostate-specific antigen induction by a steroid hormone in T47D cells growing in SCID mice. *Proc Am Assoc Cancer Res* 38:58 (1997).
9. **Melegos D.N.**, Freedman M.S., and Diamandis E.P. Prostate specific antigen immunoreactivity in cerebrospinal fluid. *Clin Chem* 43(S6):185 (1997).

10. **Melegos D.N.**, Freedman M.S., and Diamandis E.P. Prostaglandin D synthase in cerebrospinal fluid and serum from patients with various neuropathologies. *Clin Chem* 43(S6):185 (1997).
11. Sauter E.R., Daly M.B., Engstrom P.F., **Melegos D.N.**, Diamandis A., Khosravi M.J., and Diamandis E.P. IGFBP-3 expression in nipple aspirate fluid (NAF) correlates with breast cancer risk. *Proc Am Assoc Cancer Res* 39:233 (1998).
12. **Melegos D.N.**, Diamandis E.P., Helle S.I., Yu H., Lundgren S., and Lonning P.E. Plasma prostate specific antigen levels and prognostic value in patients with metastatic breast cancer following megestrol acetate treatment. *Proc Am Assoc Cancer Res* 39:553 (1998).
13. **Melegos D.N.**, Grass L., Pierratos A., and Diamandis E.P. Serum Prostaglandin D synthase concentration is elevated in humans with renal impairment. *Clin Chem [In Press]* (1998).
14. Angelopoulou K., Borchert G., **Melegos D.N.**, Lianidou E., Lilja H., and Diamandis E.P. BRCA1-specific antibodies react with a protein present in seminal plasma. *Clin Chem [In Press]* (1998).
15. Zini A., Jarvi K., Arnett W.P., Foussias G., Pappas H., Ghandi S., **Melegos D.N.**, Mullen B., Yu H., Srigley J., and Diamandis E.P. Prostaglandin D synthase in human semen: a potential marker to differentiate obstructive from non-obstructive azoospermia. *IFFS'98/American Society for Reproductive Medicine [Submitted]* (1998).
16. Reddy P.P., Bagli D.J., Diamandis E.P., **Melegos D.N.**, Barrieras D., Merguerian P., McLorie G.A., and Khoury A.E. Prostate specific antigen in the study of dysfunctional voiding. *American Academy of Pediatrics [Submitted]* (1998).

## SCIENTIFIC CONFERENCES AND SYMPOSIA

### **Oral Presentations**

1. Annual Spring Meeting of The New York Upstate Section of American Association for Clinical Chemistry. May 11-12, 1995. Syracuse, New York, USA.
2. Annual Spring Meeting of The New York Upstate Section of American Association for Clinical Chemistry. May 8-9, 1997. Amherst, New York, USA.
3. 89th Annual Meeting of The American Association for Cancer Research. March 28-April 1, 1998. New Orleans, Louisiana, USA.
4. Annual Spring Meeting of The New York Upstate Section of American Association for Clinical Chemistry. May 5-6, 1998. Hamilton, Ontario, Canada.

### **Poster Presentations (\* presented by a collaborator)**

1. 39<sup>th</sup> Annual Conference of The Canadian Society of Clinical Chemists & Canadian Association of Medical Biochemists. April 23-27, 1995. Whistler, British Columbia, Canada.\*
2. 1<sup>st</sup> International & 21<sup>st</sup> National Conference of The Clinical Ligand Assay Society. May 24-27, 1995. Toronto, Ontario, Canada.
3. 77<sup>th</sup> Annual Meeting of The Endocrine Society. June 14-17, 1995. Washington D.C., USA.\*

4. 47<sup>th</sup> National Meeting of The American Association for Clinical Chemistry. July 16-20, 1995. Anaheim, California, USA.
5. 48<sup>th</sup> Annual Joint Meeting of The American Association for Clinical Chemistry, and the Canadian Society of Clinical Chemists. July 28-Aug 01, 1996. Chicago, Illinois, USA.
6. 19<sup>th</sup> Annual San Antonio Breast Cancer Symposium. Dec 11-14, 1996. San Antonio, Texas, USA.\*
7. 88<sup>th</sup> Annual Meeting of The American Association for Cancer Research. April 12-16, 1997. San Diego, California, USA.\*
8. 45<sup>th</sup> Annual Meeting of the Pacific Coast Fertility Society. April 12, 1997. California, USA.\*
9. 1<sup>st</sup> Annual Symposium on Advances in Laboratory Medicine of the Departments, of Paediatric Laboratory Medicine-Hospital for Sick Children, and Laboratory Medicine and Pathobiology-University of Toronto. June 13, 1997. Toronto, Ontario, Canada.
10. 49<sup>th</sup> American Association for Clinical Chemistry Annual Meeting and Clinical Laboratory Exposition. July 20-24, 1997. Atlanta, Georgia, USA.
11. 50<sup>th</sup> American Association for Clinical Chemistry Annual Meeting and Clinical Laboratory Exposition. Aug 2-6, 1998. Chicago, Illinois, USA.\*

#### **Others Attended**

1. 86<sup>th</sup> Annual Meeting of The American Association for Cancer Research. March 18-22, 1995. Toronto, Ontario, Canada.
2. PSA Minisymposium; Prostate Specific Antigen and Prostate Cancer: Current Status and Future Directions. November 2, 1995. Toronto, Ontario, Canada.
3. International Symposium on Cell Signaling. June 13-4, 1996. Toronto, Ontario, Canada.
4. AMGEN Institute Summer Symposium "Determination to Death". July 22, 1996. Toronto, Ontario, Canada.

#### **INVITED LECTURER**

1. Prostate specific antigen in amniotic fluid and maternal serum. Possible associations with fetal abnormalities. Clinical Ligand Assay Society, 1<sup>st</sup> International and 21<sup>st</sup> National Conference. May 24-27, 1995, Toronto, Ontario, Canada.