

# CURRICULUM VITAE

## ANA BAYLIN

### 1. NAME, POSITION, ACADEMIC DEPARTMENT

Ana Baylin  
Assistant Professor of Medical Sciences  
Department of Community Health  
Warren Alpert medical School  
Brown University  
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### 2. EDUCATION

Doctor of Public Health (DrPH). Department of Nutrition. Harvard School of Public Health. (June 2002).  
Concentration: Nutrition (Nutritional Epidemiology), minors: Epidemiology and Biostatistics. Thesis title: Fatty acids and coronary heart disease.

Master of Science in Epidemiology (MSc), Harvard School of Public Health (1998 /99). Concentration: Methods.

Specialist in Preventive Medicine and Public Health. “La Paz” Hospital and National School of Public Health. (Madrid, Spain, 1994 / 96).

Master of Public Health (MPH). National School of Public Health. (Madrid, Spain, 1994)

Medical Doctor (MD). University of Alcalá de Henares (Madrid, Spain, 1987 / 93).

Certificate of Teacher of Classical Guitar issued by the Royal Conservatory of Music of Madrid. (Madrid, Spain, 1981 / 93).

#### ***Other courses:***

First year of a five-year degree in Mathematics. National University for Distant Learning. (Madrid, 1996 / 1998).

Workshop on Using Burden of Disease and Cost-effectiveness to Define National Control Priorities and Essential Packages of Care. Burden of Disease Unit. Harvard Center for Population and Development Studies. Harvard University. (Vermont, 1-7 Dec. 1997).

The Challenges of humanitarian actions in XXI century. Summer Courses. Universidad Complutense. (El Escorial, Madrid, 4-8 August 1997).

Diploma in Public Health for developing countries. National School of Public Health. (Madrid, Sept.-Nov. 1996).

Doctoral courses in Epidemiology, Biostatistics and Public Health (24 credits). Department of Preventive Medicine and Public Health. Universidad Autonoma de Madrid. (Madrid, 1995-1996).

### 3. PROFESSIONAL APPOINTMENTS

Assistant Professor of Medical Sciences (Epidemiology). Tenure-track. Brown University. February 2006 / present.

Adjunct professor, National University, Bogota (Colombia). 2006

Postdoctoral Research Associate. Harvard School of Public Health, Department of Nutrition. AHA fellowship: Effect of dietary carbohydrates and hepatic lipase on HDL, apoprotein content and coronary heart disease PI: Ana Baylin. Other projects: Gene-diet interactions and heart disease in Costa Rica. Identification of biomarkers of fatty acid intake. PI: Hannia Campos. July 2003 / January 2006.

Postdoctoral Research Fellow. Harvard School of Public Health-Muhimbili College of Health Sciences cooperation. Based in Dar-es-Salaam (Tanzania). Responsibilities on scientific management in various clinical trials of micronutrient supplementation in different populations (HIV-pregnant women, non HIV-pregnant women, and tuberculosis patients). PI: Wafaie Fawzi. July 2002- August 2003

Statistical Programmer. Harvard School of Public Health. Project: Gene-diet interactions in coronary heart disease in Costa Rica. PI: Hannia Campos. September 1999 / 2000

Public Health Officer. Junta de Comunidades de Castilla-La Mancha, Spain, Feb 1998 / Aug 1998, Jun1999 / Jul 1999. Implementation of breast cancer screening program. Health inspection activities. Coordination of continuing medical education.

Research Associate / Epidemiologist. National School of Public Health, Instituto de Salud Carlos III, Madrid, Spain 1997. Responsible for designing and conducting a national based study on Reproductive and Child Health in Equatorial Guinea. Responsibilities on teaching and research in the Department of International Health. Participating in the development of a research project in collaboration with the University of Geneva to estimate de Burden of Disease in the Canton of Geneva. Research responsibilities in BIOMED project "Disability weights in Europe" funded by DG XII-E-4 Commission of the European Community.

Visiting fellow. Department of Public Health, East Sussex Health Authority. England, August 1994.

Medical Resident in Preventive Medicine and Public Health. "La Paz" Hospital. Madrid, Spain. Design and analysis of research projects (Clinical Epidemiology Unit), assessing quality medical care and practice (Quality Assessment Unit), prevention of disease and health promotion in hospital workers (Occupational Health Unit), supervising nosocomial infection surveillance system, organizing hospital admissions and assessment of hospital indicators for Hospital Management, assessment of Health Programs at Primary Care level, 1994 / 96.

### 4. PUBLICATIONS

#### *Refereed journal articles*

1. Hong T, DiBello J, Ruiz-Narvaez E, Kraft P, Campos H, **Baylin A**. Does genetic variation in the  $\Delta 6$ -desaturase promoter modify the association between alpha-linolenic acid and the prevalence of metabolic syndrome?. Am J Clin Nut (in press)
2. McDonald CM, **Baylin A**, Arsenault JE, Mora-Plazas M, Villamor E. Overweight Is More Prevalent Than Stunting and Is Associated with Socioeconomic Status, Maternal Obesity, and a Snacking Dietary Pattern in School Children from Bogota, Colombia. J Nut (in press)
3. DiBello JR, **Baylin A**, Viali S, Tuitele J, Bausserman L, McGarvey ST. Adiponectin and type 2 diabetes in Samoan adults. Am J Hum Biol (in press)

4. Arsenault JE, Mora-Plazas M, Forero Y, Lopez-Arana S, **Baylin A**, Villamor E. Hemoglobin is inversely associated with erythrocyte folate concentrations in Colombian school-age children, especially among children with low vitamin B12 status. *Eur J Clin Nut* (in press)
5. DiBello J, Kraft P, McGarvey S, Goldberg R, Campos H, **Baylin A**. Is reduced rank regression more effective than other methods in deriving dietary patterns related to disease risk? *Am J Epidemiol* 168(12):1433-43
6. Allayee H, **Baylin A**, Hartiala J, Wijesuriya H, Mehrabian M, Lusis AJ, Campos H. Nutri-Genetic Association of the 5-Lipoxygenase Gene with Myocardial Infarction. *Am J Clin Nut* 2008;88(4):934-40.
7. **Baylin A**, Mora-Plazas M, Cobos-de Rangel O, Lopez-Arana S, Villamor E. Predictors of usage and fatty acid composition of cooking fats in Bogota, Colombia. *Public Health Nutrition* 2008 Apr 22:1-7. [Epub ahead of print]
8. Campos H, **Baylin A**, Willett WC. Alpha-Linolenic acid and nonfatal acute myocardial infarction in Costa Rica. *Circulation*. 2008 118(4):339-45
9. Villamor E, Mora-Plazas M, Forero Y, Lopez-Arana S, **Baylin A**. Vitamin B12 status is associated with socioeconomic level and adherence to an animal food dietary pattern in Colombian school children. *J Nutr*. 2008 Jul;138:1391-8.
10. Custodio E, Descalzo MA, Roche J, Molina L, Sanchez I, Bernis C, Villamor E, **Baylin A**. Nutritional status and its determinants in Equatorial Guinean preschool children: results from a nationally representative survey. *Food and Nutrition Bulletin*. 2008; 29(1):49-58
11. Isanaka S, Mora-Plazas M, Lopez-Arana S, **Baylin A**, Villamor E. Food insecurity is highly prevalent and predicts underweight but not overweight in adults and school children from Bogotá, Colombia. *J. Nutr*. 137: 2747–2755, 2007.
12. Colon-Ramos U, Kabagambe EK, **Baylin A**, Ascherio A, Campos H, Peterson K. Socioeconomic status and health awareness are associated with choice of cooking oil in Costa Rica. *Public Health Nutr*. 2007; 10:1214-22
13. Villamor E, Koulinska IN, Furtado J, **Baylin A**, Aboud S, Manji K, Campos H, Fawzi WW. Long chain n-6 polyunsaturated fatty acids in breast milk decrease the risk of HIV transmission through breastfeeding. *Am J Clin Nut* 2007;86(3):682-9
14. Williams E, **Baylin A**, Campos H. Adipose Tissue Arachidonic Acid and the Metabolic Syndrome in Costa Rican Adults. *Clinical nutrition* 2007; 26(4):474-82
15. Campos H and **Baylin A**. Coffee Consumption and Risk of Type 2 Diabetes and Heart Disease *Nutrition Reviews* 2007;65:173-179
16. **Baylin A**, Ruiz-Narvaez E, Kraft P, Campos H. Alpha-linolenic acid,  $\Delta 6$  desaturase gene polymorphism, and risk of nonfatal myocardial infarction. *Am J Clin Nut* 2007;65(2):554-60
17. Kabagambe EK, **Baylin A**, Campos H. Nonfatal acute myocardial infarction in Costa Rica: Modifiable risk factors, population attributable risks and adherence to dietary guidelines. *Circulation* 2007; 115(9):1075-81
18. **Baylin A**, Hernandez-Diaz S, Siles X, Kabagambe EK, Campos H. Triggers of nonfatal myocardial infarction in Costa Rica: heavy physical exertion, sexual activity, and infection. *Annals of Epidemiology*. 2007;17(2):112-118
19. **Baylin A**, Siles X, Donovan-Palmer A, Fernandez X, Campos H. Fatty acid composition of Costa Rican foods including *trans* fatty acid content. *Journal of food composition and analysis* 2007;20:182-92
20. Colon-Ramos U, **Baylin A**, Campos H. The relationship between *trans* fatty acid levels and increased risk of myocardial infarction does not hold at lower levels of *trans* fatty acids in the Costa Rican food supply. *J Nut*. 2006;136:2887-2892

21. **Baylin A**, Hernandez-Diaz S, Kabagambe EK, Siles X, Campos H. Transient exposure to coffee as a trigger of a first nonfatal myocardial infarction. *Epidemiology*. 2006;17(5):506-511.
22. Martínez-Ortiz JA, Fung TT, **Baylin A**, Hu FB, Campos H. Dietary patterns and risk of nonfatal acute myocardial infarction in Costa Rican adults. *Eur J Clin Nutr*, 2006;60(6):770-7
23. **Baylin A** and Campos H. The use of fatty acid biomarkers to reflect dietary intake. *Curr Opin Lipidol* 2006; 17(1):22-7.
24. Kabagambe EK, **Baylin A**, Ruiz-Narvarez E, Rimm EB, Campos H. Alcohol intake, drinking patterns and risk of nonfatal acute myocardial infarction. *Am J Clin Nutr* 2005; 82(6):1336-45.
25. Kabagambe EK, **Baylin A**, Ascherio A, Campos H. Type of oil used for cooking is associated with nonfatal acute myocardial infarction in Costa Rica. *J. Nutr.* 2005; 135: 2674-2679
26. **Baylin A**, Kim MK, Donovan-Palmer A, Siles X, Dougherty L, Tocco P, and Campos H. Whole blood can be a suitable readily available biomarker of essential fatty acid intake in epidemiologic studies: comparison with adipose tissue and plasma. *Am J Epidemiol* 2005; 162(4): 373-381
27. **Baylin A**, Villamor E, Rifai N, Msamanga G, Fawzi WW. Effect of vitamin supplementation to HIV-infected pregnant women on the micronutrient status of their infants. *Eur J Clin Nutr* 2005; 59(8): 960-968
28. Kabagambe EK, **Baylin A**, Ruiz-Narvarez E, Siles X, Campos H. Decreased consumption of beans is positively associated with urbanization and nonfatal acute myocardial infarction. *J Nut.* 2005 Jul; 135(7):1770-5.
29. Kabagambe EK, Furtado J, **Baylin A**, Campos H. Dietary and adipose tissue antioxidants and risk of nonfatal acute myocardial infarction in Costa Rica. *J Nut* 2005 Jul; 135(7):1763-9.
30. Kabagambe EK, **Baylin A**, Irwig MS, Furtado J, Siles X, Kim MK, Campos H. Costa Rican adolescents have a deleterious nutritional profile as compared to adults in terms of lower dietary and plasma concentrations of antioxidant micronutrients. *J Am Coll Nut.* 2005 Apr; 24(2):122-8.
31. Villamor E, Saathoff E, Bosch RJ, Hertzmark H, **Baylin A**, Manji K, Msamanga GI, Hunter DJ, Fawzi WW. Vitamin supplementation to HIV-infected women improves post-natal child growth. *Am J Clin Nut.* 2005 Apr;81(4):880-888.
32. **Baylin A**, Campos H. Arachidonic acid in adipose tissue is associated with nonfatal acute myocardial infarction in the Central Valley of Costa Rica. *J Nutr.* 2004 Nov;134(11):3095-9.
33. Westheimer EF, Urassa W, Msamanga G, **Baylin A**, Wei R, Aboud S, Kaaya S, Fawzi WW. Acceptance of HIV Testing Among Pregnant Women in Dar-es-Salaam, Tanzania. *J Acquir Immune Defic Syndr.* 2004 Sep 1;37(1):1197-1205.
34. Villamor E, Dreyfuss ML, **Baylin A**, Msamanga G, Fawzi WW. Weight Loss During Pregnancy Is Associated with Adverse Pregnancy Outcomes among HIV-1 Infected Women. *J Nutr.* 2004 Jun;134(6):1424-1431.
35. Wei R, Msamanga GI, Spiegelman D, Hertzmark E, **Baylin A**, Manji K, Fawzi WW. Association Between Low Birth Weight and Infant Mortality in Children Born to Human Immunodeficiency Virus 1-Infected Mothers in Tanzania. *Pediatr Infect Dis J.* 2004 Jun;23(6):530-535.
36. Kabagambe EK, **Baylin A**, Ascherio A and Campos H. Individual saturated fatty acids and nonfatal myocardial infarction in Costa Rica. *Eur J Clin Nutr.* 2003 57(11):1447-57
37. **Baylin A.**, Kabagambe E.K., Ascherio A., Spiegelman D., and Campos H. Adipose tissue alpha-linolenic acid and nonfatal acute myocardial infarction in Costa Rica. *Circulation* 2003;107(12):1586-91.

38. **Baylin A.**, Kabagambe E.K., Ascherio A., Spiegelman D., and Campos H. High 18:2 *trans*-fatty acids in adipose tissue are associated with increased risk of nonfatal acute myocardial infarction in Costa Rican adults. *J Nut* 2003;133(4):1186-91.
39. Kabagambe E.K, **Baylin A.**, Siles X., and Campos H. Comparison of dietary intake of micro and macronutrients in rural, suburban and urban populations in Costa Rica. *Public Health Nutrition* 2002 Dec;5(6A):835-42.
40. **Baylin A.**, Kabagambe E.K., Siles X., and Campos H. Adipose tissue biomarkers of fatty acid intake. *Am J Clin Nutr* 2002;76:750-757
41. Irwig MS, El-Sohehy A, **Baylin A.**, Rifai N, Campos H. Frequent intake of tropical fruits that are rich in beta-cryptoxanthin is associated with higher plasma beta-cryptoxanthin concentrations in Costa Rican adolescents. *J Nutr* 2002;132(10):3161-7
42. El-Sohehy A, **Baylin A.**, Kabagambe E, Ascherio A, Spiegelman D, Campos H. Individual carotenoid concentrations in adipose tissue and plasma as biomarkers of dietary intake. *Am J Clin Nutr* 2002; 76:172-76.
43. El-Sohehy A., **Baylin A.**, Spiegelman D., Ascherio A., and Campos H. Dietary and adipose tissue gamma-tocopherol and risk of myocardial infarction. *Epidemiology*. 2002;13(2):216-23.
44. Kabagambe E.K, **Baylin A.**, Allan D.A., Siles X., Spiegelman D., and Campos H. Application of the Method of Triads to Evaluate the Performance of Food Frequency Questionnaires and Biomarkers as Indicators of Long-term Dietary Intake. *Am. J. Epidemiol.* 2001 154: 1126-1135
45. El-Sohehy A., **Baylin A.**, Ascherio A., Kabagambe E.K., Spiegelman D., and Campos H. Population-based study of alpha- and gamma-tocopherol in plasma and adipose tissue as biomarkers of intake in Costa Rican adults. *Am J Clin Nutr* 2001 74: 356-363
46. Schopper D., Pereira J., Torres A., Cuende N., Alonso M., **Baylin A.**, Ammon C., and Rougemont A.. Estimating the burden of disease in one Swiss canton: what do disability adjusted life years (DALY) tell us? *Int. J. Epidemiol.* 2000 29: 871-877.
47. Schopper D, Torres A, Pereira J, Ammon C, Cuende N, Alonso M, **Baylin A.**, Ronchi A, Rougemont A. Setting health priorities in a Swiss Canton: What do different methods tell us? *J Epidemiol Community Health* 2000;54(5):388-93.
48. Martinez Bernardos R, **Baylin-Larios A.**, Ortiz Jimenez MF. ¿Podemos detectar trastornos mentales en atención primaria? Utilidad y concordancia de dos instrumentos diagnosticos. *Atencion Primaria* 1999, 23(5):285-7.
49. Herruzo Cabrera R. Diez Sebastian J. **Baylin-Larios A.** Nadal D. Pena P. Garcia Caballero J. Septicemias asociadas a la cateterizacion venosa central en un hospital infantil. Estudio multivariante. [Septicemia associated with central venous catheterization in a children's hospital. A multivariate study]. *Med Clí (Barc)* 1998; 111(18):687-91.
50. Cuende N, **Baylín A.**, García S, Garrido G, G<sup>a</sup> Caballero J. Adecuación de los ingresos y días de estancia en pacientes ingresados en el servicio de maxilofacial del Hospital La Paz durante 1994. *Jurnal de Medicină Preventivă* 1997; 5(2): 31-42.
51. G<sup>a</sup> de SanJosé S, **Baylín-Larios A.**, Cuende Melero N. Adecuación de los ingresos y días de estancia (AEP) en pacientes ingresados en un servicio de Urología del hospital La Paz. *Medicina Preventiva* 1997; 3(2): 5-9.

## Letters

1. **Baylin A.**, Hernandez-Diaz S, Kabagambe EK, Siles X, Campos H. Coffee and Myocardial Infarction. *Epidemiology*. 2007;18(4):519.
2. **Baylin A.**, Hernandez-Diaz S, Kabagambe EK, Siles X, Campos H. Coffee and Myocardial Infarction. *Epidemiology*. 2007; 18(2):282-283.

3. **Baylin A.**, Kabagambe E.K., Ascherio A., Spiegelman D., and Campos H. Alpha-linolenic acid and nonfatal acute myocardial infarction. *Circulation*. 2003 28;108(17):e127-8; in reply to: Tavani A, Gallus S, La Vecchia C. Alpha-linolenic acid and nonfatal acute myocardial infarction. *Circulation*. 2003;108(17):e127-8.
4. G<sup>a</sup> Palomar I, G<sup>a</sup> de SanJosé S, **Baylín-Larios A.** Evaluación de la adecuación del ingreso y estancia en pacientes ingresados en un hospital terciario a través del servicio de urgencia. *Med Clén (Barc)* 1995; 105(10): 396-397.

## Abstracts

1. Campos H, **Baylin A**, Hartiala J, Allayee H. Nutri-genetic association of the 5-lipoxygenase gene with myocardial infarction. American Heart Association Meeting, Orlando, Nov 2007
2. **Baylin A**, Cobos-de Rangel O, Mora-Plazas M, Lopez-Arana S, Campos H, Villamor E. High content of *trans* fatty acids in commercial oils and fats commonly used by low and middle income families from Bogota, Colombia. *FASEB J*. 2007 21:671.18
3. Villamor E, Mora-Plazas M, Forero Y, Lopez-Arana S, **Baylin A**. Socioeconomic and dietary correlates of vitamin B12 and folate status in school children from Bogota, Colombia *FASEB J*. 2007 21:674.8
4. **Baylin A**, Ruiz-Narvaez E, Kraft P, Campos H. Alpha-linolenic acid,  $\Delta 6$  desaturase gene polymorphism, and risk of nonfatal myocardial infarction. *Circulation* 2006; 114 (18): 836 Suppl.
5. **Baylin A**, Ruiz-Narvaez E, Campos H. A common deletion in the promoter of the delta-6 desaturase gene is associated with high plasma triglycerides and low arachidonic acid and EPA in tissues. *FASEB J* 2006 20 (5): A1032-A1033
6. **Baylin A**, Campos H. Arachidonic acid in adipose tissue and nonfatal acute myocardial infarction. *Circulation* 2004; 110 (17): 3605 Suppl.
7. **Baylin A**, Kabagambe EK, Ascherio A, et al. Distinct associations of individual trans fatty acids (16:1, 18:1 and 18:2) in adipose tissue and risk of myocardial infarction. *Circulation* 2002; 106 (19): 3599 Suppl.
8. **Baylin A**. Campos H. Adipose tissue fatty acids as biomarkers of intake. 2001, *Annals of Nutrition & Metabolism*. 45(Suppl 1):81.
9. El-Sohehy A, **Baylin A**, Ascherio A, Spiegelman D, Campos H. Evaluation of carotenoids in adipose tissue and plasma as biomarkers of dietary intake. 2000 *FASEB JOURNAL* 14 (4): A257-A257
10. Audera C, Pereira J, Génova R, Alonso M, Cuende N, **Baylín A**. Comparación de las medidas directas e indirectas de la mortalidad en Guinea Ecuatorial. *Gac Sanit* 1997; 11 Supl 1: 56.
11. **Baylín A**, Díez J, Cuende N, Blázquez JC, Garrido G. Auditoría de historias clínicas del hospital La Paz, 1995. *Revista de Calidad Asistencial* 1996; 11 (5): 312.
12. Díez J, **Baylín A**, Garrido G, García Caballero J. Modelo para la elaboración de un protocolo asistencial. *Revista de Calidad Asistencial* 1996; 11 (5): 288.
13. Blázquez JC, **Baylín A**, Díez J, Garrido G, García Caballero J. Actuación ante un brote de endoftalmitis en el hospital La Paz. *Revista de Calidad Asistencial* 1996; 11 (5): 316.
14. **Baylín A**, Guallar MP, Fernández Martín J, Blázquez JC, García Caballero J. Estudio del tiempo de demora de las pruebas diagnósticas en el servicio de Medicina Nuclear. Hospital La Paz, 1994. *Revista de Calidad Asistencial*. 1995; 10 (4): 221.

15. **Baylin A.**, García de San José S., Cuende N., Garrido G. Adecuación del ingreso y días de estancia en un servicio de cirugía general del hospital La Paz, 1994. Revista de Calidad Asistencial 1995; 10 (4): 214.
16. Cobo J, Juárez S, García Palomar I, **Baylín A**, González Anglada I, García Caballero J. Estudio de adecuación de la estancia hospitalaria en ingresos realizados por la urgencia de un hospital general. Emergencias 1995; 7 Supl 1: S134.
17. García Matanzo AI, de Miguel ML, Martínez P, García Palomar I, **Baylín A**, Juárez S. Actitud de la enfermería de urgencia ante el paciente ADVP seropositivo al virus de la inmunodeficiencia humana (VIH). Emergencias 1995; 7 Supl 1: S45.

### **Work in review**

**Baylin A**, Ruiz-Narvaez E, Campos H. Association between hepatic lipase -514 C/T promoter polymorphism and myocardial infarction is modified by history of hypercholesterolemia and waist circumference

Maslova E, Mora-Plazas M, Forero Y, López-Arana S, **Baylin A**, Villamor E. Are vitamin A and iron deficiencies re-emerging in urban Latin America?: A survey of school children in Bogota, Colombia

Gilbert-Diamond D, **Baylin A**, Mora-Plazas M, Villamor E. The associations between sociodemographic factors, adiposity, and body shape perception among women from Bogotá, Colombia

Custodio E, Descalzo MA, Roche J, Molina L, Sanchez I, Lwanga M, Torres A, Fernandez E, Bernis C, Villamor E, **Baylin A**. The economic transition in Equatorial Guinea coincided with substantial increases in the prevalences of child overweight and high prevalences of stunting

### **Invited lectures**

“Relevance of research in nutrigenomics and basic nutrition to solve the health and nutrition problems in a country” 2<sup>nd</sup> National Conference in Basic Nutrition. Javeriana University, Bogotá, Colombia. September 2008

“Dietary patterns and coronary heart disease” Opening session. First Central American Workshop of Healthy fats. Organized by INCIENSA, INCAP and PAHO. Costa Rica. August 2006.

“Oils, fatty acids, and cardiovascular health”. 40<sup>th</sup> anniversary of the Program in Nutrition. National University. Colombia. November 2005

“Adipose tissue alpha-linolenic acid and risk of myocardial infarction in Costa Rica” . The Fifth International Conference on Dietary Assessment Methods. Chiang Rai, Thailand. January, 2003

## **5. RESEARCH GRANTS**

### **Current grants:**

R01 HL081549

NIH, Baylin A, PI

\$1,201,227

4/08/06 – 3/31/09

### **Genetic modification of PUFA biosynthesis and CHD**

In this study we will assess individual variability in the effect of dietary PUFA on myocardial infarction, by examining genes involved in their biosynthetic pathway. These genes include elongases and desaturases

enzymes and their regulatory transcription factors, sterol regulatory element-binding protein-1c and peroxisome proliferator-activated receptor-alpha.

Role: PI

Salomon award

\$15,000

Brown University, Baylin A, PI

01/01/07 – 06/30/09

**Genetic modification of triggers of acute myocardial infarction**

Our overall objective is to identify genetic modifiers of triggers of acute myocardial infarction by examining genes involved in the beta-adrenergic pathway and the caffeine metabolism pathway.

Role: PI

**Completed grants:**

American Heart Association postdoctoral fellowship 0425810T

\$76,000

AHA, Baylin A, PI

7/01/04 – 1/31/06

**Effect of dietary carbohydrates and hepatic lipase on HDL, apoprotein content and coronary heart disease**

In this study we will examine the effect of the interaction between hepatic lipase polymorphisms and carbohydrate intake on myocardial infarction. We will also examine if this association is modified by other environmental factors known to affect HDL cholesterol concentrations. Finally, we will examine whether the risk of myocardial infarction is determined by genetic and dietary effects on plasma lipoprotein types and not just their concentration.

Role: PI

**Pending grants:**

NIH, R01 HL094582, Baylin A and Villamor E, PI

**Fatty acids and risk of overweight in school-aged children**

The major goal of this project is to assess the effect of fatty acids on overweight among school-aged children and potential genetic modifiers of this association.

Role: PI (40% FTE)

NIH, R01 HL093093, McGarvey S, PI

**Genome-Wide Association Studies of Adiposity in Samoans**

We propose to use GWA methods to elaborate our ongoing genetic epidemiology research on adiposity phenotypes among adult Samoans. We will conduct these studies using a population sample from rural Samoa, an independent nation experiencing economic development and nutritional transition.

Role: Co-investigator (10% FTE)

## 6. SERVICE

**To the University:**

Co-director of the Graduate Program in Epidemiology, Brown University. 2007

Frank and Levy Fellowship Selection Committee. 2007

Reviewer of graduate student applicants. 2007

**To the profession:**

Reviewer ad hoc for: *Circulation*; *Annals of Internal Medicine*; *Hypertension*; *Arteriosclerosis, Thrombosis, and Vascular Biology*; *American Journal of Clinical Nutrition*; *Journal of Nutrition*; *British Journal of*



*Nutrition; European Journal of Clinical Nutrition; Obesity; Annals of Epidemiology; European Journal of Epidemiology; Lipids; and Pediatrics.*

Reviewer to grade abstracts submitted for the 48th American Heart Association Cardiovascular Disease Epidemiology and Prevention Annual Conference. 2007

Reviewer for RFA HL 05-015 “Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research (K01)” and RFA 05-016 “Mentored Career Award for Faculty at Minority Institutions (K01)” (NHLBI). November 2006

Reviewer for RFA HL-06-012 “Genome-wide Association Studies to Identify Genetic Components that Relate to Heart, Lung, and Blood Disorders” (NHLBI). July 2006

Reviewer of the cardiovascular study section for grant reviews in Spain 2005 (Fondo de Investigacion Sanitaria)

#### **To the Community:**

Panelist in the 2nd annual conference about cancer organized by the “Coalition for Cancer control for Latinos” October 2007. Rhode Island.

### **7. ACADEMIC HONORS, FELLOWSHIPS, HONORARY SOCIETIES**

Rothman Epidemiology prize 2007, for the article “Transient exposure to coffee as a trigger of a first nonfatal myocardial infarction”. *Epidemiology*. 2006;17:506-511

Salomon Award. Brown University 2007

Center for Latin American Studies at Brown University travel grant 2007

Finalist for the 2006 Elizabeth Barrett-Connor Research Award for Young Investigators (American Heart Association)

American Heart Association Fellowship Award (July 2004-January 2006).

Finalist for the American Heart Association Scientific Sessions 2004 Poster Competition in Population Science (2004).

American Society for Nutritional Sciences Travel Award (2000)

Scholarships awarded by the Real Colegio Complutense and Fondo de Investigacion Sanitaria for studying a Master program at Harvard School of Public Health. (1998-1999).

Scholarship awarded by the International Federation of Students of Medicine Associations for Medical Studies in Pisa. (Italy, 1992).

#### ***Societies***

2003- Member of the American Heart Association.

2000- Member of the American Society for Nutrition.

1994- Member of the Spanish Society of Preventive Medicine, Public Health and Hygiene.

1997- Member of the Spanish Society of International and Tropical Health.

### **8. TEACHING**

Nutritional Epidemiology – Enrollment: 10 graduate students. Brown University. Spring 2008

Epidemiology of chronic disease – Enrollment: 12 graduate students. Brown University. Fall 2007

Nutritional Epidemiology – Enrollment: 12 graduate students. Brown University. Spring 2007

Epidemiology of Infectious Diseases (reading seminar) – Enrollment: 3 graduate students. Brown University. Fall 2006

Thesis advisor. Julia DiBello, MA. PhD Program in Epidemiology. Brown University. Thesis topic: Dietary patterns, ApoC3/A1/A4/A5 gene cluster, and risk of metabolic syndrome. Graduation date: December 2008.

Thesis advisor. Jian Gong, MD. PhD Program in Epidemiology. Brown University. Thesis topic: Physical activity and acute myocardial infarction: acute and chronic effects modified by genetic variations. Expected graduation date: December 2010

Academic advisor. Monica Bertoia, MPH. PhD Program in Epidemiology. Brown University.

Independent study advisor. Hong Truong. BSc Biology concentrator. Brown University. Topic: Modification of the association between alpha-linolenic acid and hypertension by genetic variation in the delta-6 desaturase gene. Spring 2007

Instructor for the Epidemiology course for medical students. Brown University. January and April 2007

Instructor for the Community Health Clerkship. Brown University. Summer 2006, Spring, Summer, and Fall 2007

Thesis committee member. Uriyoan Colon-Ramos. DSc Program in Public Health Nutrition. Nutrition Department. Harvard School of Public Health. Thesis title: Translating research to action: a case study of *trans* fatty acids and nutrition policy in Costa Rica. Graduated in November 2006

External advisor. Sandra Liliana López. Undergraduate program in Nutrition. Thesis title: Intake of fat and cardiovascular disease in Bogota. School of Nutrition. National University. Colombia. Fall 2005

Guest lecturer. “Cardiovascular Epidemiology”. Harvard School of Public Health. Fall 2005 and Fall 2006

Thesis advisor. Luis Ernesto Galicia Cano, RD. Master of International Health. National School of Public Health of Spain. Thesis title: “Nutritional status of women from Guatemala: overweight and obesity prevalence among users of the public health system” 2003-2004.

Guest Lecturer. Nutrition section in the Diploma of International Health. National School of Public Health of Spain. November 2003.

Guest Lecturer. Nutrition section in the Diploma of International Health. National School of Public Health of Spain. November 2002.

Teaching Assistant. “Design of Case-Control and Cohort Studies”. Harvard School of Public Health. Spring, academic years 2000-2001 and 2001-2002.

Teaching Assistant. “Elements of epidemiologic research”. Harvard School of Public Health. Fall, academic year 1999-2000.

Guest Lecturer. Department of International Health. National School of Public Health, Instituto de Salud Carlos III, Madrid, Spain. 1996 / 98.

Honorary lecturer. Department of Preventive Medicine. Universidad Autónoma de Madrid Medical School, 1995 / 97