



Vieira Lab Newsletter

Lab Meeting Schedule 403 Salk Hall

- May 23rd, 2008**
 Are telomeres involved in birth defects?
 Presenter: Renato Menezes
- June 6, 2009**
 IADR Conference Practice Session
 Presenters: Nick Callahan, Ida Anjomshoa, Michelle McMeans, Greg Fitzgerald, Ariadne Letra, Renato Menezes
- June 20, 2009**
 IADR Conference Practice Session
 Presenters: Nick Callahan, Ida Anjomshoa, Michelle McMeans, Greg Fitzgerald, Ariadne Letra, Renato Menezes

Lab News

A genome-wide association study is an approach that involves rapidly scanning markers across the complete sets of DNA, or genomes, of many people to find genetic variations associated with a particular disease. Once new genetic associations are identified, researchers can use the information to develop better strategies to detect, treat and prevent the disease. Such studies are particularly useful in finding genetic variations that contribute to common, complex diseases, such as asthma, cancer, diabetes, heart disease and mental illnesses. This month, two genome scan studies, one searching genetic susceptibility loci for caries and the other for clefts associated with dental anomalies, were published. The caries study is the first of this kind, not only for caries, but also for an infectious disease. The clefts study is the first one to study dental anomalies as a tool to help identify genes contributing to clefts. The two studies were done in a set of 46 families from the Philippines and were supported by a grant from the NIDCR. The studies were published in the Journal of Dental Research and the American Journal of Medical Genetics.

[Vieira AR, McHenry TG, Daack-Hirsch S, Murray JC, Marazita ML.](#) A genome wide linkage scan for cleft lip and palate and dental anomalies. Am J Med Genet A. 2008 Apr 28. [Epub ahead of print]

[Vieira AR, Marazita ML, Goldstein-McHenry T.](#) Genome-wide Scan Finds Suggestive Caries Loci. J Dent Res. 2008 May;87(5):435-9.

These two papers are featured in the NIDCR Science News in Brief this week: <http://www.nidcr.nih.gov/Research/ResearchResults/ScienceBriefs/CurrentSNIB/GWASStudy.htm>



During these projects in the Philippines, families were sometimes located in distant parts of the country. In the picture, our local collaborators walk on a trail to find one of the families that participated in the study.

Upcoming Events

- June 24, 2008**
 Genetics Symposium: Ethics
 355 Salk Hall, 3pm-5pm
 Presenters:
 Dr. Steve Wendell: Embryonic Stem Cells: Lightening Rod for Issues and Misinformation
 Dr. Josh Marvit: Self Knowledge? Genetic Analysis in the 21st Century
 Dr. Christopher Ryan: Human protection in research

DRDR Update

Recruitment Location

Module 1	146	Emergency Care	60	UDHS	4
Module 2	415	Oral Surgery	14	Orthodontics	11
Module 3	60	Pediatric Dentistry	19	Other	35
Module 4	51	Implant Center	14		
Dental Hygiene	42	Prosthodontics	4		

Recruitment Summary

Subjects Recruited	875
Subjects Declined	96
Compliance Rate	90.1%

Recent Publications

Rose EK, Vieira AR. Caries and periodontal disease: insights from two U.S. populations living a century apart. Oral Health Prev Dent 2008;6(1):23-8.

Kuchler EC, Rizzo PA, Costa MC, Modesto A, Vieira AR. Assessing the proposed association between tooth agenesis and taurodontism in 975 paediatric subjects. Int J Paediatr Dent. 2008 May;18(3):231-4.