



## Mount Sinai International Exchange Program

### List of Past Projects

Below is a list of project titles and sites from the previous years. Please note that available projects will vary each year.

#### Molecular Biology and Genomics

| COUNTRY   | PROJECT TITLE                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------|
| Argentina | Metagenomic association study of gut microbiota in psoriasis                                                |
| Brazil    | Blastocyst pre-implantation genetic diagnosis (PGD) of a mitochondrial DNA disorder                         |
| Brazil    | A preliminary study of methylmercury contamination in murine neural stem cells                              |
| Ireland   | Identification of key gene set associated with the Notch mediated response of prostate cancer cells         |
| Ireland   | Evaluation of a nuclear transporter protein as a novel marker of radio-resistance in prostate cancer        |
| Ireland   | Evaluating the effect of fisetin on radio-resistant prostate cancer cells                                   |
| Ireland   | Plasma versus urine: Battle of the liquid biopsies for non-invasive molecular detection of prostate cancer  |
| Ireland   | Evaluation of senescence as a mechanism of radio-resistance in two isogenic in vitro prostate cancer models |
| Ireland   | Hypoxia inhibits notch-3 intracellular signaling in prostate cancer cells                                   |
| Ireland   | Potential biomarkers for human prostate cancer: miR-203 and SFRP2                                           |

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| Ireland | High resolution melting for the analysis of microRNA coding DNA methylation status                                           |
| Ireland | Comparative analysis of RNA extraction techniques from urine specimens                                                       |
| Ireland | Investigation on the relationship between PSA and the radiosensitivity of aerobic and hypoxic prostate cancer cells in vitro |

#### ENVIRONMENT AND OCCUPATIONAL HEALTH

| COUNTRY | PROJECT TITLE                                                                                            |
|---------|----------------------------------------------------------------------------------------------------------|
| Brazil  | Cancer mortality among agricultural workers in the mid-west region of Brazil                             |
| Brazil  | A review of pesticide exposure and cancer incidence in the agricultural health study cohort              |
| Brazil  | Extended work hours and health among nurses: Analysis of precarious employment                           |
| Chile   | Concentrations of fine particulate matter among schools in a mining community in Chanaral, Chile         |
| Chile   | CIEL: A preventative approach to occupational health development                                         |
| Mexico  | Arsenic in drinking water: Policy implications in Mexico                                                 |
| Mexico  | Dietary flavonoids and its association with urinary arsenic metabolites                                  |
| Mexico  | Dietary determinants of urinary molybdenum levels in Mexican women                                       |
| Mexico  | Simultaneous exposure to arsenic and phthalates and breast cancer in Mexican women: an exploratory study |
| Mexico  | Long term effects of in-utero DDR exposure on children's neurodevelopment                                |
| Mexico  | Effects of prenatal metal exposure on infant neuro and motor development: An exploratory study           |
| Mexico  | Hematologic profile of Mexican workers exposed to benzene-toluene-xylene (BTX)                           |

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| Mexico       | Organochlorines exposure during first trimester of pregnancy and its effect on anogenital distance in Mexican children        |
| Mexico       | Water insecurity, solid waste and the risk of dengue in periurban communities in Mexico                                       |
| South Africa | Examining the extent to which tuberculosis incidence rates in gold miners exceed those of non-miner comparison groups         |
| South Africa | Public health as a human resources priority                                                                                   |
| South Africa | Validity and reliability of a field kit for cholinesterase estimation amongst workers exposed to organophosphate insecticides |
| Spain        | The environmental factors affecting duration of breastfeeding in the first year of life: A follow-up study                    |
| Spain        | Head circumference at birth and exposure to tobacco, alcohol and illegal drugs during early pregnancy                         |

#### HEALTH COMMUNICATION/EDUCATION

| COUNTRY      | PROJECT TITLE                                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brazil       | Addressing the social determinants of health in Latin American through education                                                                          |
| Brazil       | Brazilian immigrant women's transnational health literacy                                                                                                 |
| Brazil       | The use of social media for health promotion in Brazil                                                                                                    |
| Brazil       | Pesticides-risk perception and dietary habits among rural school children in Rio de Janeiro, Brazil                                                       |
| Brazil       | An integrative risk perception analysis of female agricultural workers in Nova Friburgo, Rio de Janeiro, Brazil: A community-based participatory research |
| Mexico       | Keeping it simple: Making chemical hazards information accessible to all                                                                                  |
| Spain        | Long term follow-up of a tobacco prevention and cessation program in cystic fibrosis patients                                                             |
| South Africa | Patient satisfaction surveys: Do icon-based measures really capture patient feedback?                                                                     |

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| South Africa | Is easy access to alcohol and alcohol advertising associated with adverse social and health outcomes amongst women in an urban and rural site in South Africa?                                                                  |
| South Africa | Content analysis of online news media coverage of the HPV vaccination program in South Africa                                                                                                                                   |
| South Africa | Evaluating the training of health professionals as a component of the programme to strengthen health committees in Nelson Mandela Bay Health District                                                                           |
| South Africa | Extending participation: Challenges of health committees as meaningful structures for community participation                                                                                                                   |
| South Africa | Language barriers to health access in the western Cape                                                                                                                                                                          |
| South Africa | Social marketing in health education: Models and individual applications for a Brazilian context                                                                                                                                |
| South Africa | Training trainers in health and human rights: Implementing curricula reform in South African health sciences institutions                                                                                                       |
| South Africa | Community-based media education on human rights                                                                                                                                                                                 |
| South Africa | Cost and cost effectiveness analysis of motivational interviewing and life skills training interventions to reduce the risk of alcohol-exposed pregnancies among female farm workers in the western Cape Province, South Africa |
| Spain        | Smoking prevention and cessation program in cystic fibrosis: Integrating an environmental health approach                                                                                                                       |

## PEDIATRIC HEALTH

| COUNTRY | PROJECT TITLE                                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------------------------------------|
| Brazil  | Association between fetal death from central nervous system anomalies and pesticide consumption in the middle west region of Brazil |
| Mexico  | Differences in arsenic metabolism between Mexican boys and girls                                                                    |
| Mexico  | Prenatal DDE exposure and child growth during the first year of life                                                                |
| Spain   | Neurobehavioral disorders from prenatal exposure to alcohol and drugs                                                               |
| Spain   | Environment and pediatric cancer in the Region of Murcia, Spain: Integrating clinical and environmental history in a                |

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|       | geographic information system                                                                                            |
| Spain | Breastfeeding and anogenital distance in 2-year-old infants                                                              |
| Spain | Small area variation of childhood cancer in the municipality of Murcia, Spain                                            |
| Spain | Description of pediatric cancer in the region of Murcia, Spain, 1998-2010                                                |
| Spain | Analysis of the pediatric environmental history of six childhood leukemia cases within a cancer cluster in Murcia, Spain |
| Spain | Estimated intake levels of methyl mercury in children, childbearing age and pregnant women in a Mediterranean region     |
| Spain | Childhood leukemia and road traffic: A population-based case-control study                                               |
| Spain | Parental smoking habits and pediatric cancer in Spain                                                                    |

## NUTRITION

| COUNTRY | PROJECT TITLE                                                                                                   |
|---------|-----------------------------------------------------------------------------------------------------------------|
| Chile   | The effects of boron on women: A systematic review                                                              |
| Mexico  | The role of nutrient intake and genetic polymorphism in 1-carbon metabolism and elimination efficiency          |
| Mexico  | Nutritional and dietary predictors of <i>Helicobacter pylori</i> seropositivity                                 |
| Mexico  | Calcium, magnesium, and fiber and the risk of death from breast cancer in Mexico                                |
| Mexico  | Protective effect of yogurt consumption on <i>Helicobacter pylori</i> seropositivity in a Mexican population    |
| Spain   | Association between trace element concentrations and dietary intake in patients with exocrine pancreatic cancer |

## GENDER/HUMAN RIGHTS

| COUNTRY      | PROJECT TITLE                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------|
| Argentina    | Old-based lubricant use among sex workers in Argentina                                                                |
| South Africa | Gender and health inequalities in South Africa                                                                        |
| South Africa | The role of a human rights approach to health in providing a framework for civil society's full realization of rights |
| Spain        | Violence against women and gastroschisis: A case-control study                                                        |

## MENTAL HEALTH

| COUNTRY | PROJECT TITLE                                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Brazil  | Suicide mortality among agricultural workers in Alagoas, Brazil                                                                             |
| Sweden  | Testing the reliability and validity of the depression, anxiety, and positive outlook (DAPOS) questionnaire in a Swedish population project |

## HIV/AIDS

| COUNTRY      | PROJECT TITLE                                                      |
|--------------|--------------------------------------------------------------------|
| South Africa | Prevalence of coercive HIV testing in a rural town in South Africa |

## OTHER

| COUNTRY | PROJECT TITLE                                                           |
|---------|-------------------------------------------------------------------------|
| Mexico  | Prostate cancer mortality risk in Mexico: A case control study for 2009 |

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|--------------|-------------------------------------------------------------------------------------------------------------|
| Mexico       | Concentration of urinary phthalates metabolites in Mexican women with and without diabetes                  |
| South Africa | Ventilation as a prevention measure to control the spread of drug-resistant tuberculosis: A literacy review |
| South Africa | Persistent respiratory symptoms following an environmental disaster in South Africa                         |
| Spain        | Alcohol consumption before and after pregnancy                                                              |