

# International Tobacco and Health Research and Capacity Building Program

Tobacco represents one of the leading threats to global health. To meet this challenge, the Fogarty International Center (FIC) of the National Institutes of Health (NIH) and partnering institutions established the International Tobacco and Health Research and Capacity Building Program.

The overarching goal of this program was to foster a global network of tobacco control researchers. This network would generate data, train the next generation of tobacco control scientists, and share state-of-the-art findings related to best practices, obstacles, and opportunities related to tobacco control research.

In September 2002, FIC and its partners awarded the first 14 tobacco control grants. Grantees included twelve U.S.-based investigators as well as one investigator in Canada and one investigator in the United Kingdom. All of the projects involved collaborations with low- to middle-income country institutions and scientists.

For a brief description of each project, see *FIC Announces First Awards*: <http://www.nih.gov/news/pr/sep2002/fic-25.htm>.

## *Program Goals*

- **To reduce the burden of tobacco consumption in low- and middle-income nations by conducting observational, interventional, and policy research of local relevance; and**
- **To build capacity in epidemiological and behavioral research, prevention, treatment, communications, health services, and policy research.**

### **Fogarty International Center**

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### **Co-funding partners**

National Cancer Institute  
National Institute on Drug Abuse  
National Institute on Child Health and Human Development  
National Institute of Nursing Research





Child preparing tobacco in Argentina

**RFA Development Partners**

**U.S. Centers for Disease Control and Prevention**  
**World Health Organization's Tobacco Free Initiative**  
**National Institute on Child Health and Human Development**  
**National Health, Lung, and Blood Institute**  
**National Institute of Nursing Research**  
**National Institute of Mental Health**  
**National Institute on Drug Abuse**  
**Fogarty International Center**  
**National Cancer Institute**

The initial Request for Applications (RFA) encouraged proposals that linked behavioral science, social science, and basic science with clinical and operational aspects of health care research. It targeted five key research areas: epidemiological and surveillance research, susceptibility and risk for smoking uptake, biobehavioral and social research, intervention research, and policy-related research.

The first round of successful proposals included the study of addiction, the examination of tobacco tax policies, marketing and advertising strategies, campaigns that promote a smoke-free norm, and prevention strategies targeted at youth and adults. Grantees have shared their findings with the global tobacco control community through publications, presentations, and posters. Thus far, grantees have produced 105 publications (refer to pages 6-9 for a complete list) and made more than 170 scientific and/or poster presentations at conferences worldwide. Trainees were oftentimes at the forefront of these dissemination efforts.

Towards overarching programmatic goals, grantees set out to create a global network of researchers by forging new partnerships and collaborations. To this end, they were successful: Grantees established working relationships with researchers from Argentina, Brazil, Cambodia, Canada, China, Dominican Republic, Egypt, Guatemala, India, Indonesia, Lao PDR, Mexico, Russia, South Africa, Syria, United States, and Tanzania. Refer to the *Principal Investigators and Collaborating Institutions* list on page 4 for more detailed information.

**More information online:**

**Original RFA, released June 2001:**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-TW-02-005.html>

**Program website:**

[http://www.fic.nih.gov/programs/research\\_grants/tobacco/index.htm](http://www.fic.nih.gov/programs/research_grants/tobacco/index.htm)

**New RFA, released May 2006:**

<http://grants1.nih.gov/grants/guide/rfa-files/RFA-TW-06-006.html>

“Smoking represents one of the greatest challenges to health, both in the United States and worldwide. This NIH program supports critically needed research and training to identify ways to prevent or reduce smoking rates worldwide, especially in the developing world.”

*Tommy Thompson, former Secretary of the Department of Health and Human Services*

International Tobacco and Health Research and Capacity Building Program (RFA-TW-02-005)																
Table 1 -- Total number and type of trainee supported by each grant in the funding cycle 2002-2006																
Grant number	Country of Origin	Type of Trainees														TOTALS
		MS/MPH		PhD		Post-docs of at least one year		Non degree courses/lab training more than 3 months		Short courses less than 3 months		Supported for meeting or workshop only		Sub Totals		
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
HL73699	Brazil								1					0	1	1
HL73699	China		3	1										1	3	4
HL73699	Mexico	1						1			3			1	4	5
TW05931	Austria	1												1	0	1
TW05931	South Africa	2	1											2	1	3
TW05931	USA		1											0	1	1
TW05935	Argentina		2	4	2	3	2	23	22	26	21	10	10	66	59	125
TW05935	Guatemala			1										1	0	1
TW05935	USA			1										1	0	1
TW05938	China	2	2	3	1			1		1		25	35	32	38	70
TW05944	Egypt	2	1	2	8	4	8	5	8	2	5	2	1	17	31	48
TW05945	Dominican Republic											23	36	23	36	59
TW05945	Dominican Republic/USA							2	3			10	18	12	21	33
TW05952	USA		1		1				1	46	212			46	215	261
TW05955	South Africa							2	4	1	3	2	2	5	9	14
TW05955	Tanzania							1	1	1	2	1		3	3	6
TW05962	Syria							7	3	2	2	4	1	13	6	19
TW05964	Cambodia							11	2	2			1	13	3	16
TW05964	Lao PDR							3	3					3	3	6
TW05969	India			2		1	1			53	13			56	14	70
TW05991	India							800		80	29			880	29	909
	<b>TOTALS</b>	<b>8</b>	<b>11</b>	<b>14</b>	<b>12</b>	<b>8</b>	<b>11</b>	<b>855</b>	<b>49</b>	<b>214</b>	<b>290</b>	<b>77</b>	<b>104</b>	<b>1176</b>	<b>477</b>	<b>1653</b>

Training of the next generation of tobacco control scientists was an integral feature of this program, and projects included significant capacity and infrastructure-strengthening components. As a result of this RFA, more than 1,600 individuals have received tobacco control training through long-term mentorship, meeting/workshop support, and/or short courses. Table 1 illustrates the number of individuals that received training under a given grant.

Many of the 128 long-term trainees have overseen research projects. Short-term courses and workshops allowed for a large number of participants. In total, the grantees have organized 90 short-term courses.

### Long Term Trainees

MS/MPH: 13

PhD: 20

Post-docs: 12

Non-Degree: 43

Non-specified: 40

Countries Represented: Argentina, Cambodia, China, Dominican Republic, Egypt, India, Japan, Lao PDR, Mexico, Syria, United Kingdom, United States



Student Survey Administration, Delhi, 2004

## Principal Investigators and Collaborating Institutions

"We need to reduce smoking  
... Tobacco use costs us too  
many lives, too many dollars  
and too many tears."

*Mike Leavitt, Secretary of the  
Dept. of Health and Human Services*

- Principal Investigator:** David W. Brook, MD  
**Institution:** New York University School of Medicine, New York, NY  
**Title:** South Africa Adolescent Smoking: A Longitudinal Study (R01 TW005931)  
**Collaborating Institutions:** Neo Morojele, Medical Research Council; University of Pretoria, Pretoria, South Africa
- Principal Investigator:** Linda H. Ferry, MD, DrPH  
**Institution:** Loma Linda University, Loma Linda, CA  
**Title:** Asian Leadership Training for Tobacco Control Research (R01 TW005964)  
**Collaborating Institutions:** Dennison Grellman, Adventist Development & Relief Agency Laos, Vientiane, Lao PDR  
Mark Schwisow, Adventist Development & Relief Agency Cambodia, Phnom Penh, Cambodia
- Principal Investigator:** Teh-Wei Hu, PhD  
**Institution:** University of California Berkeley, Berkeley, CA  
**Title:** Tobacco Control Policy Analysis & Intervention Evaluation in China (R01 TW005938)  
**Collaborating Institutions:** Zhengzhong Moa, Sichuan University, Chengdu, Sichuan, P.R. China  
Yuan Jiang, China Center for Disease Control and Prevention, Beijing, P.R. China  
Ming Tao, Fudan University, Shanghai, P.R. China
- Principal Investigator:** Prabhat Jha, MD, PhD  
**Institution:** St. Michael's Hospital, Toronto, ON, Canada  
**Title:** Strengthening monitoring of Indian tobacco mortality (R01 TW005991)  
**Collaborating Institutions:** K. N. Trivedi, Smt. N. H. L. Municipal Medical College, Ellisbridge, Gujarat, India  
Prakash Bhatia, Osmania Medical College, Hyderabad (Andhra Pradesh), India  
P. Subramaniam, Centre for Development Research & Training, Chennai, India  
Sandip Ray, Medical College, Kolkata, India  
V. Gajalakshmi, Epidemiological Research Center, Tamil Nadu, India  
Dhirendra Narain Sinha, School of Preventive Oncology, Patna, India  
Prem Mony, St. John's National Academy of Health Sciences, Bangalore, India  
Rajesh Kumar and Sunil Sethi, PGIMER, Chandigarh, India  
Anna S. Kerketta, Regional Medical Research Centre (ICMR), Orissa, India  
Prakash C. Gupta, Healis, Sekhsaria Institute of Public Health, Navi Mumbai, India  
F. U. Ahmed, Regional Institute of Health and Medical Sciences, Meghalaya, India  
L. Usha Rani, Regional Institute of Medical Sciences, Imphal, India  
K. T. Shenoy, Medical College, Thiruvananthapuram, Kerala, India  
S. Surange, Gandhi Medical College, Bhopal, India  
Shally Awasthi, CSM Medical University, Lucknow, Uttar Pradesh, India  
Manges Pednekar and Shreevidya, Great Eastern Chamber, Belapur, Navi Mumbai, India  
S. Kar, Regional Medical Research Centre, Bhubenshwar, Orissa, India  
L.B. Leena, Medical College, Thiruvanthpuram, Kerala, India  
V. Lakshmi, Nizam Institute of Medical, Punjagutta, Hyderabad, India
- Principal Investigator:** Gary King, PhD  
**Institution:** Pennsylvania State University  
**Title:** Western & Southern African Tobacco Research Project (R01 TW005955)  
**Collaborating Institutions:** Alan Flisher, University of Cape Town Medical School, Cape Town, South Africa  
Gad Kilonzo, Muhimbili University School of Medicine, Dar es Salaam, Tanzania
- Principal Investigator:** Harry A. Lando, PhD  
**Institution:** University of Minnesota Twin Cities, Minneapolis, MN  
**Title:** Cessation Research and Training in India and Indonesia (R01 TW005969)  
**Collaborating Institutions:** Nawi Ng, Gadjah Mada University, Yogyakarta, Indonesia  
K R Thankappan, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Kerala, India
- Principal Investigator:** Christopher A Loffredo, PhD, MS  
**Institution:** Georgetown University Medical Center, Washington, DC  
**Title:** Egypt Smoking Prevention Research Initiative (R01 TW005944)  
**Collaborating Institutions:** Mostafa K. Mohamed, Ain Shams University, Cairo, Egypt  
Maged El Setouhy, Ain Shams University, Cairo, Egypt  
Aisha Aboul Fotouh, Ain Shams University, Cairo, Egypt  
Mohamed Hassan Hussein, Cairo University, Cairo, Egypt  
Nargis Albert Labib, Cairo University, Cairo, Egypt  
Ghada Radwan Nasr, Cairo University, Cairo, Egypt  
Mohamed Abdel-Hamid, Minia University, Minia, Egypt  
Eman Mafouz, Minia University, Minia, Egypt  
Nabiel Mikhail, Assiut University, Assiut, Egypt

## Principal Investigators and Collaborating Institutions, continued

- Principal Investigator:** Deborah J. Ossip-Klein, PhD  
**Institution:** University of Rochester, Rochester, NY  
**Title:** Technology Assisted Dominican Republic Tobacco Control (R01 TW005945)  
**Collaborating Institutions:** Sergio Diaz, Pontificia Universidad Católica Madre y Maestra, Santiago de los Caballeros, Dominican Republic  
Mairení Gautreau, Secretary of Public Health and Public Assistance, Dominican Republic  
Clara Benedicto, University of Santo Domingo, Dominican Republic  
Eduardo Gautreau De Windt, Dominican Society of Pneumology, Dominican Republic  
Rafael Gutierrez, Dominican Society of Oncology, Dominican Republic  
Francisco Jimenez Guilamo, Dominican Society of Cardiology, Dominican Republic  
Paul McDonald, University of Waterloo, Waterloo, Ontario, Canada  
Heather Selin, Pan American Health Organization, Washington, DC, USA  
Beatriz Champagne, InterAmerican Heart Foundation, Inc., Dallas, Texas, USA
- Principal Investigator:** Eliseo J. Pérez-Stable, MD  
**Institution:** University of California, San Francisco, San Francisco, CA  
**Title:** Tobacco Use Among Argentinean Youth: A Cohort Study (R01 TW005935)  
**Collaborating Institutions:** Raul Mejia, Hospital de Clinicas, Buenos Aires, Argentina  
Ethel Alderete, Institute of Regional Science and Technology (ICTER), Jujuy, Argentina  
Veronica Schoj, Hospital Italiano de Argentina (Buenos Aires), Ministry of Health, La Plata, Argentina  
Constanza C. Almiron, Universidad Nacional de Tucuman, San Miguel de Tucuman, Argentina  
Eugenio Martinez, Salta, Argentina  
Valeria Guil, Jujuy, Argentina  
Laura Flores, Jujuy Argentina  
Ernesto Sebrie, UCSF, Rosario, Argentina  
Joaquin Barnoya, UCSF, Guatemala City, Guatemala
- Principal Investigator:** Cheryl L. Perry, PhD, MA  
**Institution:** University of Minnesota Twin Cities, Minneapolis, MN  
**Title:** Mobilizing Youth for Action Against Tobacco in India (R01 TW005952)  
**Collaborating Institutions:** K Srinath Reddy, Health Related Information Dissemination Amongst Youth, India  
JP Saulina Arnold, Tanil Nadu Voluntary Health Association, India
- Principal Investigator:** Sir Richard Peto, M.Sc., M.A.  
**Institution:** University of Oxford, Oxford, United Kingdom  
**Title:** Monitoring tobacco mortality in 2M adults in 4 countries (R01 TW005993)  
**Collaborating Institutions:** Vendhan Gajalakshmi, Epidemiological Research Center, Chennai, India  
KT Shenov, Medical College, Kerala, India  
Fatma Hassan, Suez Canal University, Ismailia, Egypt  
Gonghuan Yang, Chinese Academy of Preventive Medicine, Beijing, China  
David Zaridze, Russian Academy of Medical Science, Moscow, Russia
- Principal Investigator:** Ken A. Resnicow, Ph.D.  
**Institution:** University of Michigan at Ann Arbor, Ann Arbor, MI  
**Title:** Tobacco Control in South Africa: Prevention and Capacity Building (R01 TW005977)  
**Collaborating Institutions:** Priscilla Sasiragha Reddy, Medical Research Council, South Africa  
Shags James, Medical Research Council, South Africa
- Principal Investigator:** Jonathan M. Samet, MD, MS  
**Institution:** Johns Hopkins University, Baltimore, MD  
**Title/Grant:** Epidemiology & Intervention Research for Tobacco Control (R01 HL073699)  
**Collaborating Institutions:** Valeska Figueiredo, National Cancer Institute, Brazil  
Gonghuan Yang, Chinese Academy of Medical Science, China  
Mauricio Hernandez-Avila, Instituto Nacional de Salud Pública, Mexico
- Principal Investigator:** Kenneth D. Ward, PhD  
**Institution:** University of Memphis, Memphis, TN  
**Title/Grant:** Establishment of the Syrian Center for Tobacco Studies (R01 TW005962)  
**Collaborating Institutions:** M. Haysam Kamal, Syrian Society Against Cancer, Aleppo, Syria  
Fouad M. Fouad, Syrian Ministry of Health, Aleppo, Syria  
Samer Rastam, University of Aleppo, Aleppo, Syria  
Wasim Maziak, Syrian Center for Tobacco Studies, Aleppo, Syria

## International Tobacco and Health Research and Capacity Building Program

### Publications

as of August 7, 2006

#### **David Brook (TW005931)**

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- Brook JS, Morojele NK, Brook DW, Zhang C, Whiteman M. Personal, interpersonal, and cultural predictors of stages of cigarette smoking among adolescents in Johannesburg, South Africa. *Tobacco Control*, 2006;15(Suppl. 1):i48-i53.
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- Morojele NK, Brook JS. Sociodemographic, sociocultural and individual predictors of meaninglessness among South African adolescents. *Psychological Reports*. 2004;95:1271-1278.
- Morojele NK, Brook JS. Substance use and multiple victimization among adolescents in South Africa. *Addictive Behaviors*. 2006; 31:1163-1176.
- Morojele NK, Brook JS, Kachieng'a M. Perceptions of sexual risk behaviors and substance abuse among adolescents in South Africa: A qualitative investigation. *AIDS Care (Special Issue)*. 2006 Apr;18(3):215-9.

#### **Teh-wei Hu (TW005938)**

- de Beyer J, Kollaro N, Edwards N, Cheung H. Research on Tobacco in China: an annotated bibliography of research on tobacco use, health effects, policies, farming and industry. *Economics of Tobacco Control Paper*, No. 21 World Bank, 2004 July
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- Jiang H, Mao Z, Hu TW. An Analysis of Costs and Revenue of Tobacco Leaf Production. *Rural Economy*, (in Chinese), 2004;6(200):46-48.
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- Tao M. Chinese Tobacco Industry under State Monopoly: Theory, Problem and Reform of the System (book). Academia Press, Shanghai, October 2005.
- Tao M. Impact of WTO on China Tobacco Import and Export. *Research on Productivity*, (in Chinese), 2004;10:29-131.
- Tao M, Hu J. Summary of Foreign Theories on Addictive Articles. *Tobacco R&D Management (Fudan University)*, 2005 Oct.;17:196-200.
- Zheng-Zhong MA, Hu DW, Yang G. Demand of Different Income Groups for Cigarettes and Impact of Increasing Tax on Smokers. *Chinese J Evidence-Based Medicine*, 2005;4:291-295.

#### **Chris Loffredo / Ebenezer Israel (TW005944)**

- Aboul-Fotouh A, Kamal Ael A, Mohamed MK, El-Setouhy M, Israel E. University advocacy on tobacco prevention in Egypt: partnership between Ain Shams University and the Egyptian Smoking Prevention Research Institute (ESPRI). *J Egypt Soc Parasitol*. 2003 Dec; 33(3 Suppl): 1103-10.
- Ayyad SBA, Radwan G, Israel E, El-Setouhy M, Mohamed MK, Loffredo C. Evaluation of Papanicolaou (Pap) stain for studying micronuclei in buccal cells under field conditions. *Acta Cytologica* 2006 (*in press*).
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- Radwan GN, Mohamed MK, El-Setouhy M, Israel E. Review on water pipe smoking. *J Egypt Soc Parasitol*. 2003 Dec;33(3 Suppl):1051-72.

#### **Prabhat Jha (TW005955)**

- Bonu S, Rani M, Jha P, Peters DH, Nguyen SN. Household tobacco and alcohol use, and child health: an exploratory study from India. *Health Policy*. 2004;70(1):67-83.
- Bonu S, Rani M, Peters DH, Jha P, Nguyen SN. Does use of tobacco or alcohol contribute to impoverishment from hospitalization costs in India? *Health Policy Plan*. 2005, Jan; 20(1): 41-9.
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- Jha P, Chaloupka FJ et al. Tobacco Addiction, in Jamison D, Alleyne GA, Breman JE. *Disease Control Priorities in Developing Countries: Chapter 40, Tobacco Addiction*, 2nd Edition, Oxford University Press (2006).
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- Jha P, Zatonski W. Smoking & premature mortality: reflections on the contributions of Richard Doll. *CMAJ*, 2005 Aug 30;173(5):476-7
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## Publications, continued

### Gary King (TW005955)

- Fernander A, Flisher A, King G, Price C, Noubary F, Chalton M, and Lombard T. Gender differences in depression and smoking among youth in Cape Town, South Africa. *Ethnicity & Disease Journal*. 2006 Winter;16(1):41-50.
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- King G, Flisher AJ, Noubary F, Reece R, Marais A, Lombard C. Substance abuse and behavioral correlates of sexual assault among South African adolescents. *Child Abuse & Negl*. 2004 Jun;28(6):683-96.
- Townsend L, Flisher A, Gilreath T, King G. Tobacco use among adults 15 years and older in Sub-Saharan Africa. *Drug and Alcohol Dependence Journal*. 2006 Jan 24; [Epub ahead of print].
- Townsend L, Flisher A, Gilreath T, King G. A systematic review of tobacco use among Sub-Saharan African youth. *Journal of Substance Use*. (*in press*).

### Harry A. Lando (TW005969)

- Lando H. Reflections on 30+ years of smoking cessation research: From the individual to the world. *Drug and Alcohol Review* 2006;25:3-12.
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- Lando H, Borrelli B, Muramoto M, Ward K. Perspectives on the role of the Society for Research on Nicotine and Tobacco in promoting global tobacco research and reducing tobacco harm. *Nicotine & Tobacco Research*. (*in press*).
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- Pradeepkumar AS, Mohan S, Gopalakrishnan P, Sarma PS, Thankappan KR, Nichter M. Tobacco Use in Kerala: Findings from three recent studies. *The National Medical Journal of India* 2005; 18: 148-53.
- Ramakrishna G, Sarma PS, Thankappan KR. Tobacco use among medical students in Orissa. *The National Medical Journal of India* 2005; 18: 230-34.
- Singh G, Sinha DN, Sarma PS, Thankappan KR. Prevalence and Correlates of Tobacco Use among 10-12 Year old School Students in Patna District, Bihar, India. *Indian Pediatrics* 2005;12:805-10.
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### Deborah J. Ossip-Klein (TW005945)

- Dozier AM, Ossip-Klein DJ, Diaz S, Chin N.P, Sierra E, Quiñones Z, Dye TD, McIntosh S, Armstrong L. Tobacco use in the Dominican Republic: Understanding the culture first. *Tobacco Control*, 2006;15:30-36.

### Eliseo J. Pérez-Stable (TW005935)

- Barnoya J, Bialous SA, Glantz SA. Effective Interventions to Reduce Smoking-Induced Heart Disease Around the World Time to Act. *Circulation*. 2005 Jul 26;112(4):456-8.
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