

# 2012

## INVESTIGACIÓN SOBRE SALUD AMBIENTAL EN EL INSTITUTO NACIONAL DE SALUD PÚBLICA



CENTRO DE INVESTIGACIÓN EN  
SALUD POBLACIONAL, INSP

## INSTITUTO NACIONAL DE SALUD PÚBLICA

# SALUD AMBIENTAL



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**CENTRO DE INVESTIGACIÓN EN SALUD POBLACIONAL, INSP.**

*“La Salud Ambiental comprende aquellos aspectos de la salud humana, incluida la calidad de vida, que son determinados por factores ambientales físicos, químicos, biológicos, sociales y psicosociales. También se refiere a la teoría y práctica de evaluación, corrección, control y prevención de los factores ambientales que pueden afectar de forma adversa la salud de la presente y futuras generaciones.” OMS.*

## EL FRUTO DE LA INVESTIGACIÓN

La Salud Ambiental se ha convertido en un campo de estudio fundamental para la Salud Pública, debido al impacto sobre la salud humana del medio ambiente cada vez más deteriorado a causa de la sobreexplotación de los recursos naturales del planeta, la devastación de los ecosistemas, la diversidad biológica, la sobrepoblación, y el desarrollo urbano infringida por el propio ser humano, cuya afectación en su conjunto atenta contra el desarrollo sustentable, fundamental para la vida, aunándose a esto el uso y la exposición ambiental de sustancias químicas, físicas y biológicas contaminantes de los espacios vitales dando como resultado la indudable evidencia del aumento de enfermedades ocasionadas por las mismas, así como la proliferación de enfermedades infecciosas transmitidas por malas condiciones sanitarias. En los últimos años, otro factor ambiental determinante que sin duda está siendo tomado en cuenta como potencializador de enfermedades ya existentes es el cambio climático.

El Instituto Nacional de Salud Pública, siendo el principal rector en Salud Pública en México, se ha dado a la tarea de investigar los vínculos causales entre los distintos factores ambientales que pueden en un momento dado, incidir en el incremento de la morbimortalidad de los padecimientos, facilitando las acciones a seguir en la toma de decisiones que tienen como misión generar estrategias preventivas, de promoción y acción para contribuir en la vigilancia de la salud ambiental fomentando ambientes favorables para la salud.

Es por ello, que desde sus inicios, el INSP contribuye con la investigación medioambiental consolidando a partir del 2008 una Línea de Investigación por Misión específica para esta área: ***“Ambiente y Salud”***, el propósito del presente documento es aportar la evidencia del impacto científico que tienen las investigaciones publicadas en revistas nacionales e internacionales sobre el tema y observar el grado de visibilidad de la actividad científica del grupo de investigadores internos comprometidos en el estudio de la Salud Ambiental.



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## ANÁLISIS CITOGRÁFICO

Para la preparación del presente análisis se recuperaron 284 artículos del INSP publicados en el periodo 1999-2010, de estos, se seleccionaron 266 (tabla 1) que tuvieron 1 o más citas de los años 1999-2011, la fecha de corte fue *marzo de 2012* por lo que se incluyeron algunas citas de este último año.

Las principales fuentes de obtención de citas para el estudio fueron SCI-ISI y Google Académico.

Se recuperaron **3850** referencias de artículos que *citan* la producción del INSP, con una aportación de **5043 citas** en total, sin autocitas. (Ver citografía)

De estos resultados se obtuvieron los siguientes indicadores bibliométricos: títulos de revista en las cuales los investigadores del INSP publicaron sus resultados, así como los títulos de revistas que más citas aportaron a la producción medio-ambiental del instituto, se presentan también los datos sobre la preferencia temática consultada por la comunidad científica nacional e internacional. Otros indicadores observados son: nivel de revista, país y continente de publicación tanto de las revistas que fueron citadas como de las que citaron; además se resaltan los nombres de los autores del INSP que participaron en los artículos seleccionados.

Tablas principales:

- Artículos seleccionados del INSP con temática de Salud Ambiental. (tabla 1)
- Artículos con 35 citas o más. (tabla 2)
- Artículos publicados entre 2007-2010 con buena tendencia de citas por año (tabla 3)
- Títulos de revista más citados con la producción del INSP. (tabla 4)
- Títulos de revista que más citan la producción del INSP. (tabla 7)

Tabla 1. Artículos seleccionados del INSP con temática de Salud Ambiental: 266 artículos.

AÑO	ARTÍCULO	CITAS
2010	Aguilar-Garduño, C., Lacasaña, M., <b>Blanco-Muñoz, J.</b> , Borja-Aburto, V. H. and García, A. M. Parental occupational exposure to organic solvents and anencephaly in Mexico. <i>Occup Environ Med</i> 2010;67(1):32-7	3
	Benowitz, N., Goniewicz, M. L., Eisner, M. D., <b>Lazcano-Ponce, E.</b> , Zielinska-Danch, W., Koszowski, B., Sobczak, A., Havel, C. and Jacob, P., 3rd Urine cotinine underestimates exposure to the tobacco-derived lung carcinogen 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in passive compared with active smokers. <i>Cancer Epidemiol Biomarkers Prev</i> 2010;19(11):2795-800	6
	<b>Blanco-Muñoz, J.</b> , Morales, M. M., Lacasaña, M., Aguilar-Garduño, C., Bassol, S. and Cebrian, M. E. Exposure to organophosphate pesticides and male hormone profile in floriculturist of the state of Morelos, Mexico. <i>Hum Reprod</i> 2010;25(7):1787-95	4
	Bornman, R., de Jager, C., Worku, Z., <b>Fariás, P.</b> and Reif, S. DDT and urogenital malformations in newborn boys in a malarial area. <i>BJU Int</i> 2010;106(3):405-11	6
	Cantonwine, D., Meeker, J. D., Hu, H., Sánchez, B. N., <b>Lamadrid-Figueroa, H.</b> , <b>Mercado-García, A.</b> , Fortenberry, G. Z., Calafat, A. M. and <b>Téllez-Rojo, M. M.</b> Bisphenol A exposure in Mexico City and risk of prematurity: a pilot nested case control study. <i>Environ Health</i> 2010;9:62	5
	Catalán-Vázquez, M., <b>Schilmann, A.</b> and <b>Riojas-Rodríguez, H.</b> Perceived health risks of manganese in the Molango Mining District, Mexico. <i>Risk Anal</i> 2010;30(4):619-34	1
	Claus Henn, B., Ettinger, A. S., Schwartz, J., <b>Téllez-Rojo, M. M.</b> , <b>Lamadrid-Figueroa, H.</b> , <b>Hernández-Avila, M.</b> , Schnaas, L., Amarasingwardena, C., Bellinger, D. C., Hu, H., et al. Early postnatal blood manganese levels and children's neurodevelopment. <i>Epidemiology</i> 2010;21(4):433-9	6
	<b>Cupul-Uicab, L. A.</b> , <b>Hernández-Avila, M.</b> , Terrazas-Medina, E. A., Pennell, M. L. and Longnecker, M. P. Prenatal exposure to the major DDT metabolite 1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene (DDE) and growth in boys from Mexico. <i>Environ Res</i> 2010;110(6):595-603	3
	Eisner, M. D., Anthonisen, N., Coultas, D., Kuenzli, N., Pérez-Padilla, R., Postma, D., <b>Romieu, I.</b> , Silverman, E. K. and Balmes, J. R. An official American Thoracic Society public policy statement: Novel risk factors and the global burden of chronic obstructive pulmonary disease. <i>Am J Respir Crit Care Med</i> 2010;182(5):693-718	35
	García-Frapolli, E., <b>Schilmann, A.</b> , Berrueta, V. M., <b>Riojas-Rodríguez, H.</b> , Edwards, R. D. et al. Beyond fuelwood savings: Valuing the economic benefits of introducing improved biomass cookstoves in the Purépecha region of Mexico. <i>Ecological Economics</i> 2010;69(12):2598-2605	3
	Lacasaña, M., López-Flores, I., Rodríguez-Barranco, M., Aguilar-Garduño, C., <b>Blanco-Muñoz, J.</b> , Pérez-Méndez, O., Gamboa, R., Bassol, S. and Cebrian, M. E. Association between organophosphate pesticides exposure and thyroid hormones in floriculture workers. <i>Toxicol Appl Pharmacol</i> 2010;243(1):19-26	8
	Lacasaña, M., López-Flores, I., Rodríguez-Barranco, M., Aguilar-Garduño, C., <b>Blanco-Muñoz, J.</b> , Pérez-Méndez, O., Gamboa, R., González-Alzaga, B., Bassol, S. and Cebrian, M. E. Interaction between organophosphate pesticide exposure and PON1 activity on thyroid function. <i>Toxicol Appl Pharmacol</i> 2010;249(1):16-24	2
	Luna, A. L., Acosta-Saavedra, L. C., <b>López-Carrillo, L.</b> , Conde, P., Vera, E., De Vizcaya-Ruiz, A., Bastida, M., Cebrian, M. E. and Calderón-Aranda, E. S. Arsenic alters monocyte superoxide anion and nitric oxide production in environmentally exposed children. <i>Toxicol Appl Pharmacol</i> 2010;245(2):244-51	2
	Pérez-Maldonado, I. N., <b>Trejo-Acevedo, A.</b> , Ruepert, C., Jovel Rdel, C., Méndez, M. P., Ferrari, M., Saballos-Sobalvarro, E., Alexander, C., Yanez-Estrada, L., López, D., et al. Assessment of DDT levels in selected environmental media and biological samples from Mexico and Central America. <i>Chemosphere</i> 2010;78(10):1244-9	1
	Pérez-Padilla, R., <b>Schilmann, A.</b> and <b>Riojas-Rodríguez, H.</b> Respiratory health effects of indoor air pollution. <i>Int J Tuberc Lung Dis</i> 2010;14(9):1079-86	8
	Pilsner, J. R., Hu, H., Wright, R. O., Kordas, K., Ettinger, A. S., Sánchez, B. N., Cantonwine, D., Lazarus, A. L., Cantoral, A., Schnaas, L., <b>Téllez-Rojo, M. M.</b> , <b>Hernández-Avila, M.</b> Maternal MTHFR genotype and haplotype predict deficits in early cognitive development in a lead-exposed birth cohort in Mexico City. <i>Am J Clin Nutr</i> 2010;92(1):226-34	4
	<b>Riojas-Rodríguez, H.</b> , Solis-Vivanco, R., <b>Schilmann, A.</b> , Montes, S., <b>Rodríguez, S.</b> , Ríos, C. and Rodríguez-Agudelo, Y. Intellectual function in Mexican children living in a mining area and environmentally exposed to manganese. <i>Environ Health Perspect</i> 2010;118(10):1465-70	12
<b>Romieu, I.</b> , <b>Moreno-Macias, H.</b> and London, S. J. Gene by environment interaction and ambient air pollution. <i>Proc Am Thorac Soc</i> 2010;7(2):116-22	6	
<b>Schilmann, A.</b> , Lacasaña, M., <b>Blanco-Muñoz, J.</b> , Aguilar-Garduño, C., <b>Salinas-Rodríguez, A.</b> , <b>Flores-Aldana, M.</b> and Cebrian, M. E. Identifying pesticide use patterns among flower growers to assess occupational exposure to mixtures. <i>Occup Environ Med</i> 2010;67(5):323-9	2	

2010	Solé, D., Mallol, J., Wandalsen, G. F., Aguirre, V. and Latin American ISAAC Phase 3 Study Group ( <b>Romieu, I.</b> ). Prevalence of symptoms of eczema in Latin America: results of the International Study of Asthma and Allergies in Childhood (ISAAC) Phase 3. <i>J Investig Allergol Clin Immunol</i> 2010;20(4):311-23	2
	Soto-Ríos, M. L., <b>Rothenberg, S. J.</b> , Juárez-Pérez, C. A. and Aguilar-Madrid, G. Variability of mercury in urine among Mexican women residing in a mining area. <i>J Occup Environ Med</i> 2010;52(1):62-6	1
	<b>Thrasher, J. F.</b> , Pérez-Hernández, R., Swayampakala, K., <b>Arillo-Santillán, E.</b> and Bottai, M. Policy support, norms, and secondhand smoke exposure before and after implementation of a comprehensive smoke-free law in Mexico city. <i>Am J Public Health</i> 2010;100(9):1789-98	13
	Wu, H., <b>Romieu, I.</b> , Shi, M., Hancock, D. B., Li, H., Sienra-Monge, J. J., Chiu, G. Y., Xu, H., del Río-Navarro, B. E. and London, S. J. Evaluation of candidate genes in a genome-wide association study of childhood asthma in Mexicans. <i>J Allergy Clin Immunol</i> 2010;125(2):321-327 e13	22
2009	<b>Backer, C.</b> , Barraza-Villarreal, A., <b>Moreno-Macías, H.</b> , Escamilla-Núñez, C. and <b>Romieu, I.</b> [The effects of a rural environment on the prevalence of allergic rhinitis among schoolchildren in Mexicali, Baja California, Mexico]. <i>Rev Panam Salud Publica</i> 2009;25(5):431-7	1
	de Jager, C., Aneck-Hahn, N. H., Bornman, M. S., <b>Fariás, P.</b> , Leter, G., Eleuteri, P., Rescia, M. and Spano, M. Sperm chromatin integrity in DDT-exposed young men living in a malaria area in the Limpopo Province, South Africa. <i>Hum Reprod</i> 2009;24(10):2429-38	3
	De Vizcaya-Ruiz, A., Barbier, O., <b>Ruiz-Ramos, R.</b> and Cebrian, M. E. Biomarkers of oxidative stress and damage in human populations exposed to arsenic. <i>Mutat Res</i> 2009;674(1-2):85-92	32
	Ellwood, P., Williams, H., Ait-Khaled, N., Bjorksten, B., Robertson, C. and ISAAC Phase III Study Group ( <b>Romieu I.</b> ). Translation of questions: the International Study of Asthma and Allergies in Childhood (ISAAC) experience. <i>Int J Tuberc Lung Dis</i> 2009;13(9):1174-82	8
	Ettinger, A. S., <b>Lamadrid-Figueroa, H.</b> , <b>Téllez-Rojo, M. M.</b> , <b>Mercado-García, A.</b> , Peterson, K. E., Schwartz, J., Hu, H. and <b>Hernández-Avila, M.</b> Effect of calcium supplementation on blood lead levels in pregnancy: a randomized placebo-controlled trial. <i>Environ Health Perspect</i> 2009;117(1):26-31	13
	Foliaki, S., Pearce, N., Bjorksten, B., Mallol, J., Montefort, S., von Mutius, E. and International Study of Asthma and Allergies in Childhood Phase III Study Group ( <b>Romieu, I.</b> ) Antibiotic use in infancy and symptoms of asthma, rhinoconjunctivitis, and eczema in children 6 and 7 years old. <i>J Allergy Clin Immunol</i> 2009;124(5):982-9	16
	García-Sancho, M. C., <b>García-García, L.</b> , <b>Baez-Saldaña, R.</b> , Ponce-De-Leon, A., Sifuentes-Osornio, J., Bobadilla-Del-valle, M., <b>Ferreira-Reyes, L.</b> , <b>Cano-Arellano, B.</b> , <b>Canizales-Quintero, S.</b> , <b>Palacios-Merino L. C.</b> , et al. Indoor pollution as an occupational risk factor for tuberculosis among women: a population-based, gender oriented, case-control study in Southern Mexico. <i>Rev Invest Clin</i> 2009;61(5):392-8	1
	Hancock, D. B., <b>Romieu, I.</b> , Shi, M., Sienra-Monge, J. J., Wu, H., Chiu, G. Y., Li, H., del Río-Navarro, B. E., Willis-Owen, S. A., Weiss, S. T., et al. Genome-wide association study implicates chromosome 9q21.31 as a susceptibility locus for asthma in mexican children. <i>PLoS Genet</i> 2009;5(8):e1000623	39
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	López-Flores, I., Lacasaña, M., <b>Blanco-Muñoz, J.</b> , Aguilar-Garduño, C., Sánchez-Villegas, P., Pérez-Méndez, O. A. and Gamboa-Avila, R. Relationship between human paraoxonase-1 activity and PON1 polymorphisms in Mexican workers exposed to organophosphate pesticides. <i>Toxicol Lett</i> 2009;188(2):84-90	9
	Meeker, J. D., Hu, H., Cantonwine, D. E., <b>Lamadrid-Figueroa, H.</b> , Calafat, A. M., Ettinger, A. S., <b>Hernández-Avila, M.</b> , Loch-Carusio, R. and <b>Téllez-Rojo, M. M.</b> Urinary phthalate metabolites in relation to preterm birth in Mexico city. <i>Environ Health Perspect</i> 2009;117(10):1587-92	9
	<b>Moreno-Banda, G.</b> , <b>Blanco-Muñoz, J.</b> , Lacasaña, M., <b>Rothenberg, S. J.</b> , Aguilar-Garduño, C., Gamboa, R. and Pérez-Méndez, O. Maternal exposure to floricultural work during pregnancy, PON1 Q192R polymorphisms and the risk of low birth weight. <i>Sci Total Environ</i> 2009;407(21):5478-85	5
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	<b>Torres-Sánchez, L.</b> , Schnaas, L., Cebrian, M. E., Hernández M del, C., Valencia, E. O., García Hernández, R. M. and <b>López-Carrillo, L.</b> Prenatal dichlorodiphenyldichloroethylene (DDE) exposure and neurodevelopment: a follow-up from 12 to 30 months of age. <i>Neurotoxicology</i> 2009;30(6):1162-5	5
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2008	Arora, M., Ettinger, A. S., Peterson, K. E., Schwartz, J., Hu, H., <b>Hernández-Avila, M.</b> , Téllez-Rojo, M. M. and Wright, R. O. Maternal dietary intake of polyunsaturated fatty acids modifies the relationship between lead levels in bone and breast milk. <i>J Nutr</i> 2008;138(1):73-9	2
	<b>Barraza-Villarreal, A.</b> , Sunyer, J., <b>Hernández-Cadena, L.</b> , Escamilla-Núñez, M. C., Sienra-Monge, J. J., Ramírez-Aguilar, M., <b>Cortéz-Lugo, M.</b> , Holguín, F., Díaz-Sánchez, D., Olin, A. C., <b>Romieu, I.</b> Air pollution, airway inflammation, and lung function in a cohort study of Mexico City schoolchildren. <i>Environ Health Perspect</i> 2008;116(6):832-8	29
	Brunkard, J. M., <b>Cifuentes, E.</b> and <b>Rothenberg, S. J.</b> Assessing the roles of temperature, precipitation, and ENSO in dengue re-emergence on the Texas-Mexico border region. <i>Salud Publica Mex</i> 2008;50(3):227-34	11
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Ilabaca, M., Olaeta, I., Campos, E., Villaire, J., <b>Téllez-Rojo, M. M.</b> and <b>Romieu, I.</b> Association between levels of fine particulate and emergency visits for pneumonia and other respiratory illnesses among children in Santiago, Chile. <i>J Air Waste Manag Assoc</i> 1999;49(9 Spec No):154-63	38
O'Neill, M. S., Hajat, S., Zanobetti, A., <b>Ramírez-Aguilar, M.</b> and Schwartz, J. Impact of control for air pollution and respiratory epidemics on the estimated associations of temperature and daily mortality. <i>Int J Biometeorol</i> 2005;50(2):121-9	37
Eisner, M. D., Anthonisen, N., Coultas, D., Kuenzli, N., Pérez-Padilla, R., Postma, D., <b>Romieu, I.</b> , Silverman, E. K. and Balmes, J. R. An official American Thoracic Society public policy statement: Novel risk factors and the global burden of chronic obstructive pulmonary disease. <i>Am J Respir Crit Care Med</i> 2010;182(5):693-718	35



Tabla 3. Artículos publicados entre 2007-2010 con buena tendencia de citas por año: 26 artículos.

ARTÍCULO	CITAS
Aneck-Hahn, N. H., Schulenburg, G. W., Bornman, M. S., <b>Farias, P.</b> and De Jager, C. Impaired semen quality associated with environmental DDT exposure in young men living in a malaria area in the Limpopo Province, South Africa. <i>Journal of Andrology</i> 2007;28(3):423-434	34
<b>Torres-Sanchez, L., Rothenberg, S. J., Schnaas, L., Cebrian, M. E., Osorio, E., Del Carmen Hernandez, M., Garcia-Hernandez, R. M., Del Rio-Garcia, C., Wolff, M. S. and Lopez-Carrillo, L.</b> In utero p,p'-DDE exposure and infant neurodevelopment: a perinatal cohort in Mexico. <i>Environ Health Perspect</i> 2007;115(3):435-9	33
De Vizcaya-Ruiz, A., Barbier, O., <b>Ruiz-Ramos, R.</b> and Cebrian, M. E. Biomarkers of oxidative stress and damage in human populations exposed to arsenic. <i>Mutat Res</i> 2009;674(1-2):85-92	32
Wu, H., <b>Romieu, I.</b> , Sienra-Monge, J. J., Li, H., del Río-Navarro, B. E. and London, S. J. Genetic variation in ORM1-like 3 (ORMDL3) and gasdermin-like (GSDML) and childhood asthma. <i>Allergy</i> 2009;64(4):629-35	31
<b>Romieu, I., Barraza-Villarreal, A., Escamilla-Núñez, C., Almstrand, A. C., Díaz-Sánchez, D., Sly, P. D. and Olin, A. C.</b> Exhaled breath malondialdehyde as a marker of effect of exposure to air pollution in children with asthma. <i>J Allergy Clin Immunol</i> 2008;121(4):903-9 e6	30
Holguín, F., <b>Flores, S., Ross, Z., Cortéz-Lugo, M., Molina, M., Molina, L., Rincón, C., Jerrett, M., Berhane, K., Granados, A., Romieu, I.</b> Traffic-related exposures, airway function, inflammation, and respiratory symptoms in children. <i>Am J Respir Crit Care Med</i> 2007;176(12):1236-42	30
<b>Barraza-Villarreal, A., Sunyer, J., Hernández-Cadena, L., Escamilla-Núñez, M. C., Sienra-Monge, J. J., Ramírez-Aguilar, M., Cortéz-Lugo, M., Holguín, F., Díaz-Sánchez, D., Olin, A. C., Romieu, I.</b> Air pollution, airway inflammation, and lung function in a cohort study of Mexico City schoolchildren. <i>Environ Health Perspect</i> 2008;116(6):832-8	29
Pilsner, J. R., Hu, H., Ettinger, A., Sánchez, B. N., Wright, R. O., Cantonwine, D., Lazarus, A., <b>Lamadrid-Figueroa, H., Mercado-García, A., Téllez-Rojo, M. M., Hernández-Avila, M.</b> Influence of prenatal lead exposure on genomic methylation of cord blood DNA. <i>Environ Health Perspect</i> 2009;117(9):1466-71	27
Odhiambo, J. A., Williams, H. C., Clayton, T. O., Robertson, C. F. and Asher, M. I. Global variations in prevalence of eczema symptoms in children from ISAAC Phase Three. and ISAAC Phase Three Study Group ( <b>Romieu, I.</b> ) <i>J Allergy Clin Immunol</i> 2009;124(6):1251-8 e23	26
<b>Romieu, I., Castro-Giner, F., Kunzli, N. and Sunyer, J.</b> Air pollution, oxidative stress and dietary supplementation: a review. <i>Eur Respir J</i> 2008;31(1):179-97	25
Wu, H., <b>Romieu, I.</b> , Shi, M., Hancock, D. B., Li, H., Sienra-Monge, J. J., Chiu, G. Y., Xu, H., del Río-Navarro, B. E. and London, S. J. Evaluation of candidate genes in a genome-wide association study of childhood asthma in Mexicans. <i>J Allergy Clin Immunol</i> 2010;125(2):321-327 e13	22
London, S. J. and <b>Romieu, I.</b> Gene by environment interaction in asthma. <i>Annu Rev Public Health</i> 2009;30(55-80)	19
<b>Romieu, I., Riojas-Rodríguez, H., Marrón-Mares, A. T., Schilman, A., Pérez-Padilla, R. and Masesa, O.</b> Improved biomass stove intervention in rural Mexico: impact on the respiratory health of women. <i>Am J Respir Crit Care Med</i> 2009;180(7):649-56	17
Foliaki, S., Pearce, N., Bjorksten, B., Mallol, J., Montefort, S., von Mutius, E. and International Study of Asthma and Allergies in Childhood Phase III Study Group ( <b>Romieu, I.</b> ) Antibiotic use in infancy and symptoms of asthma, rhinoconjunctivitis, and eczema in children 6 and 7 years old. <i>J Allergy Clin Immunol</i> 2009;124(5):982-9	16
<b>Thrasher, J. F., Pérez-Hernández, R., Swayampakala, K., Arillo-Santillán, E. and Bottai, M.</b> Policy support, norms, and secondhand smoke exposure before and after implementation of a comprehensive smoke-free law in Mexico city. <i>Am J Public Health</i> 2010;100(9):1789-98	13
Ettinger, A. S., <b>Lamadrid-Figueroa, H., Téllez-Rojo, M. M., Mercado-García, A., Peterson, K. E., Schwartz, J., Hu, H. and Hernandez-Avila, M.</b> Effect of calcium supplementation on blood lead levels in pregnancy: a randomized placebo-controlled trial. <i>Environ Health Perspect</i> 2009;117(1):26-31	13
<b>Riojas-Rodríguez, H., Solis-Vivanco, R., Schilman, A., Montes, S., Rodríguez, S., Ríos, C. and Rodríguez-Agudelo, Y.</b> Intellectual function in Mexican children living in a mining area and environmentally exposed to manganese. <i>Environ Health Perspect</i> 2010;118(10):1465-70	12

<p><b>Trejo-Acevedo, A.</b>, Diaz-Barriga, F., Carrizales, L., Dominguez, G., Costilla, R., Ize-Lema, I., Yarto-Ramirez, M., Gavilan-Garcia, A., Jesus Mejia-Saavedra, J. and Perez-Maldonado, I. N. Exposure assessment of persistent organic pollutants and metals in Mexican children. <i>Chemosphere</i> 2009;74(7):974-80</p>	11
<p>Lopez-Flores, I., Lacasana, M., <b>Blanco-Munoz, J.</b>, Aguilar-Garduno, C., Sanchez-Villegas, P., Perez-Mendez, O. A. and Gamboa-Avila, R. Relationship between human paraoxonase-1 activity and PON1 polymorphisms in Mexican workers exposed to organophosphate pesticides. <i>Toxicol Lett</i> 2009;188(2):84-90</p>	9
<p>Meeker, J. D., Hu, H., Cantonwine, D. E., <b>Lamadrid-Figueroa, H.</b>, Calafat, A. M., Ettinger, A. S., <b>Hernandez-Avila, M.</b>, Loch-Caruso, R. and <b>Tellez-Rojo, M. M.</b> Urinary phthalate metabolites in relation to preterm birth in Mexico city. <i>Environ Health Perspect</i> 2009;117(10):1587-92</p>	9
<p>Pérez-Padilla, R., <b>Schilmann, A.</b> and <b>Riojas-Rodríguez, H.</b> Respiratory health effects of indoor air pollution. <i>Int J Tuberc Lung Dis</i> 2010;14(9):1079-86</p>	8
<p>Lacasaña, M., Lopez-Flores, I., Rodriguez-Barranco, M., Aguilar-Garduno, C., <b>Blanco-Munoz, J.</b>, Perez-Mendez, O., Gamboa, R., Bassol, S. and Cebrian, M. E. Association between organophosphate pesticides exposure and thyroid hormones in floriculture workers. <i>Toxicol Appl Pharmacol</i> 2010;243(1):19-26</p>	8
<p>Benowitz, N., Goniewicz, M. L., Eisner, M. D., <b>Lazcano-Ponce, E.</b>, Zielinska-Danch, W., Koszowski, B., Sobczak, A., Havel, C. and Jacob, P., 3rd Urine cotinine underestimates exposure to the tobacco-derived lung carcinogen 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in passive compared with active smokers. <i>Cancer Epidemiol Biomarkers Prev</i> 2010;19(11):2795-800</p>	6
<p>Bornman, R., de Jager, C., Worku, Z., <b>Fariás, P.</b> and Reif, S. DDT and urogenital malformations in newborn boys in a malarial area. <i>BJU Int</i> 2010;106(3):405-11</p>	6
<p>Claus Henn, B., Ettinger, A. S., Schwartz, J., <b>Télez-Rojo, M. M.</b>, <b>Lamadrid-Figueroa, H.</b>, <b>Hernández-Avila, M.</b>, Schnaas, L., Amarasiwardena, C., Bellinger, D. C., Hu, H., et al. Early postnatal blood manganese levels and children's neurodevelopment. <i>Epidemiology</i> 2010;21(4):433-9</p>	6
<p><b>Romieu, I.</b>, <b>Moreno-Macias, H.</b> and London, S. J. Gene by environment interaction and ambient air pollution. <i>Proc Am Thorac Soc</i> 2010;7(2):116-22</p>	6

## SOBRE LAS REVISTAS CIENTÍFICAS

### I. REVISTAS DONDE FUERON CITADOS LOS INVESTIGADORES DEL INSP

De 99 títulos de revistas localizadas, son 30 las que aparecen en la tabla que más citas obtuvieron (tabla 4) y es la revista nivel V “Environmental Health Perspectives” especializada en temas medioambientales la que aparece como revista preferente entre los investigadores del INSP para publicar sus resultados, seguida por la “American Journal of Respiratory and Critical Care Medicine” nivel V y “Epidemiology” nivel IV, todas teniendo como sede de publicación los Estados Unidos; en este cuadro se encuentra la revista “Salud Pública de México”, órgano oficial del INSP como representante de Latinoamérica dentro de las más citadas; entre las primeras 3 revistas mencionadas se publicaron 49 artículos y se obtuvieron 1750 citas, cerca del 35% del total (5043 citas); aunque casi todas las revistas integran temas de Salud Ambiental, 10 de ellas son especializadas en esta disciplina\*.

Tabla 4. Revistas más citadas (35 citas o más).

Artículos citados	REVISTA CITADA	Citas	*Nivel de Revista
31	Environmental Health Perspectives*	1099	V
8	American Journal of Respiratory and Critical Care Medicine	370	V
10	American Journal of Epidemiology	281	IV
7	Epidemiology	266	IV
35	Salud Publica de Mexico	261	III
12	Archives of Environmental AND Occupational Health (antes Archives of Environmental	176	III
8	Environmental Research*	152	IV
5	Journal of Allergy and Clinical Immunology	125	V
3	Pediatrics	123	IV
1	Thorax	115	V
3	European Respiratory Journal	107	IV
2	Journal of Toxicology and Environmental Health-Part A*	105	III
1	Epidemiologic Reviews	103	V
2	Journal of Andrology	75	IV
5	Toxicology and Applied Pharmacology	75	IV
2	International Journal of Epidemiology	71	IV
2	Proceedings of the American Thoracic Society	71	I
1	European Journal of Epidemiology	67	IV
1	Inhalation Toxicology	57	III
3	Journal of the Air and Waste Management Association*	56	III
3	Neurotoxicology and Teratology	54	III
4	Journal of Occupational and Environmental Medicine*	61	III
7	Journal of Exposure Science and Environmental Epidemiology (antes Journal of Exposure Analysis and Environmental Epidemiology)*	51	IV
2	Environmental Science and Technology*	51	IV
2	American Journal of Tropical Medicine and Hygiene	40	III
3	International Journal of Tuberculosis and Lung Disease	40	III
1	Faseb Journal	39	V
1	Plos Genetics	39	V
1	International Journal of Biometeorology*	37	III
4	Occupational and Environmental Medicine*	37	IV

\* Nivel de revista según el Factor de impacto por año (JCR 2010) y conforme al criterio de la “Clasificación Cualitativa de Revistas Científicas Periódicas”.

Fig. 1. Distribución de los 266 artículos seleccionados por nivel de revista, con número de títulos, número de artículos y citas correspondientes.

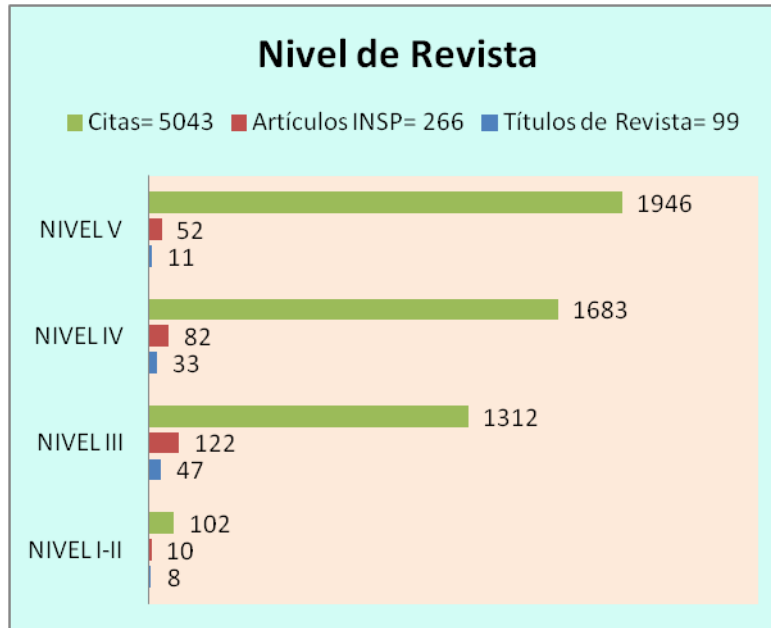


Tabla 5. Distribución por país de publicación de revista de los 266 artículos seleccionados, con número de títulos y citas correspondientes.

PAÍS	Títulos de Revista	Artículos INSP	Citas
ALEMANIA	2	3	33
BRASIL	3	3	17
CANADÁ	2	2	19
COLOMBIA	2	4	8
DINAMARCA	2	2	41
ESPAÑA	3	4	16
ESTADOS UNIDOS	47	151	3670
FRANCIA	1	3	40
HOLANDA	7	13	190
INDIA	1	1	10
INGLATERRA	24	40	686
IRLANDA	1	2	29
MÉXICO	2	36	262
SUIZA	2	2	22
<b>TOTAL</b>	<b>99</b>	<b>266</b>	<b>5043</b>

Tabla 6. Distribución por continente de publicación de revista de los 266 artículos seleccionados, con número de títulos y citas correspondientes

CONTINENTE	Títulos de Revista	Artículos INSP	Citas
AMÉRICA	56	195	3976
ASIA	1	1	10
EUROPA	42	70	1057
<b>TOTAL</b>	<b>99</b>	<b>266</b>	<b>5043</b>

## II. REVISTAS DONDE SE PUBLICARON LOS ARTÍCULOS QUE CITAN LA PRODUCCIÓN DEL INSP.

Son 3850 artículos que citan la producción del INSP, distribuidos en 1166 títulos de revista, como en la sección anterior, la principal aportadora en este cuadro (tabla 7) es la “Environmental Health Perspectives” de nivel V seguida por “Environmental Research” y “Science of the Total Environment” ambas de nivel IV y las tres con énfasis en Salud Ambiental, de los 35 títulos presentados en la tabla, 17 pertenecen a esta especialidad\*.

Tabla 7. Revistas que más citas aportaron (20 citas o más).

Artículos que citan	Títulos de revista que más citan la producción sobre Salud Ambiental del INSP	*Nivel de Revista
247	Environmental Health Perspectives*	V
94	Environmental Research*	IV
85	Science of the Total Environment*	IV
64	American Journal of Respiratory and Critical Care Medicine	V
55	Journal of Allergy and Clinical Immunology	V
46	Neurotoxicology	III
43	Environmental Health*	III
35	Occupational and Environmental Medicine*	IV
34	American Journal of Epidemiology	IV
34	European Respiratory Journal	IV
32	Inhalation Toxicology	III
32	Toxicology and Applied Pharmacology	IV
31	Atmospheric Environment*	IV
31	Epidemiology	IV
30	International Journal of Hygiene and Environmental Health*	III
29	Journal of Exposure Science and Environmental Epidemiology (antes Journal of Exposure Analysis and Environmental Epidemiology)*	IV
27	Environment International*	IV
26	Archives of Environmental and Occupational Health (antes Archives of	III
26	Journal of Occupational and Environmental Medicine*	III
26	Pediatrics	IV
25	Chemosphere*	IV
25	Thorax	V
24	Environmental Science and Technology*	IV
23	Clinical and Experimental Allergy	IV
23	Journal of Toxicology and Environmental Health-Part A*	III
22	Toxicological Sciences	IV
22	Toxicology Letters	IV
21	Journal of Asthma	III
21	Plos One	IV
20	International Journal of Environmental Research and Public health*	I
20	International Journal of Occupational and Environmental Health*	III
20	Journal of Epidemiology and Community Health	III
20	Journal of the Air and Waste Management Association*	III
20	Reproductive Toxicology	IV
20	Toxicology	IV

\* Nivel de revista según el Factor de impacto por año (JCR 2010) y conforme al criterio de la “Clasificación Cualitativa de Revistas Científicas Periódicas”.



Fig 2. Distribución del número de títulos de revista de acuerdo a su nivel cualitativo, con el número correspondiente de artículos que citan.



Tabla 8. Países con mayor contribución de citas, distribuidos por número de títulos, nivel de revista y artículos que citaron.

PAÍSES QUE MAS APORTARON EN ESTA SECCIÓN	Títulos de Revista que más citaron	Títulos Nivel I-II	Títulos Nivel III	Títulos Nivel IV	Títulos Nivel V	Artículos que citaron
ESTADOS UNIDOS	370	46	177	106	41	1642
INGLATERRA	257	30	135	72	20	884
HOLANDA	79	10	42	22	5	349
ALEMANIA	48	8	32	7	1	133
MÉXICO	43	32	11			93
BRASIL	33	17	16			70
DINAMARCA	9		6	1	2	62
FRANCIA	16	1	15			57
SUIZA	22	5	13	3	1	55
ESPAÑA	16	8	8			40
IRLANDA	8	1	6	1		38
COLOMBIA	11	8	3			32
INDIA	22	14	8			28
JAPÓN	20	7	13			28
AUSTRALIA	11	4	7			23
CANADÁ	13	4	6	2	1	22
CHILE	11	9	2			20
<b>17 Países</b>	<b>989</b>	<b>204</b>	<b>500</b>	<b>214</b>	<b>71</b>	<b>3576</b>

Tabla 9. Número de títulos de revista de acuerdo a su nivel de clasificación cualitativa y total de artículos que citan la investigación del INSP, distribuidos por continente de publicación.

Continente	Títulos	Nivel I-II	Nivel III	Nivel IV	Nivel V	Artículos
AMÉRICA	508	137	221	108	42	1924
EUROPA	522	79	306	108	29	1731
ASIA	108	55	52	1		153
OCEANÍA	16	8	7	1		28
AFRICA	12	11	1			14
<b>Total</b>	<b>1166</b>	<b>290</b>	<b>587</b>	<b>218</b>	<b>71</b>	<b>3850</b>

## TEMÁTICA CONSULTADA

El cuidado del medio ambiente es uno de los problemas principales de Salud Pública no solo para México, sino para todos los países del planeta, prueba de ello son las distintas reuniones llevadas a cabo por los organismos y gobiernos internacionales para mejorar la calidad ambiental de nuestro entorno y lograr revertir el impacto de la contaminación atmosférica en todos los seres vivos principalmente en la salud del ser humano.

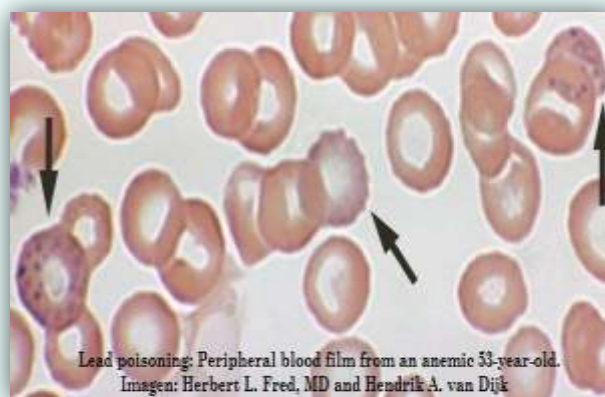
Uno de los objetivos complementarios a partir del análisis citográfico cualitativo y cuantitativo de las investigaciones sobre el rubro realizadas en el INSP, es dar a conocer la descripción del contenido temático y subtemático de los artículos más citados por los investigadores comprometidos con el estudio de la Salud ambiental; a continuación se describen en forma general las aportaciones científicas que generan interés entre la comunidad en base al impacto de la citación.

### 1. PLOMO.

El plomo ha sido objeto de estudio debido a la toxicidad que representa al encontrarse en ciertas cantidades; en el aire (partículas microscópicas suspendidas), polvo, agua, alimentos, material de plomería, etc., es considerado por los expertos como una fuente de contaminación en el medio ambiente que afecta por consiguiente la salud de la población.

Los artículos que han generado mayor interés para su consulta y citación son los que se refieren en primer lugar a los efectos de la exposición al plomo en diferentes tipos de población y sus efectos tóxicos sobre la salud de cada una de ellas.

- Han sido citados los estudios prospectivos de cohortes relacionados a la medición de concentraciones de plomo en sangre y la disminución en la función intelectual y neurológica en niños expuestos directamente a este elemento tanto en los primeros meses de vida



como en la etapa prenatal.

- En cuanto a la población adulta, las aportaciones de mayor interés ha sido la asociación del plomo con enfermedades cardiovasculares, en particular con la hipertensión y las recomendaciones sobre el manejo médico a la exposición ocupacional sobre todo para la reevaluación de los límites de exposición que pueden llegar a afectar las funciones cognitiva, renal, cardiovascular, gastrointestinal y reproductiva en el ser humano, de esto último, se menciona la estrecha relación entre la LIM Salud Ambiental y la LIM Salud Reproductiva documentada en el análisis citográfico previo *“Investigación sobre Salud Reproductiva en el Instituto Nacional de Salud Pública, INSP. Octubre 2011”*
- Destacan también las investigaciones que tratan sobre el incremento de los niveles de plomo en hueso materno como posible fuente de exposición fetal y como factor de riesgo de futuros efectos sobre el desarrollo mental infantil.



- La evaluación de mediciones de plomo en sangre y plasma maternos durante cada trimestre del embarazo como predictor del impacto sobre el neurodesarrollo del infante.

- La existencia de la asociación entre el almacenamiento de plomo en hueso materno y el peso del bebé después del parto o la correlación de este almacenamiento óseo sobre el aumento de la resorción del hueso materno.

- Otras investigaciones citadas incluyen la exposición al plomo en el uso de utensilios de cerámica vidriada y la elaboración artesanal de la misma considerándose como factores de riesgo para el incremento y acumulo de plomo

en sangre principalmente en mujeres.

- Debido a que durante el embarazo y la lactancia se da una movilización mayor de almacenamiento de plomo en hueso, las investigaciones relevantes de consulta son las referentes a la suplementación dietética con calcio durante la lactación para disminuir los niveles de este metal

en sangre de las madres y reducir potencialmente la exposición en los lactantes.

- Dentro de la lactancia, se menciona también el comportamiento de esta en la movilización de plomo en hueso materno; y la detección de niveles de plomo en leche materna relacionados con los niveles de plomo en sangre en recién nacidos. De igual manera son citados los trabajos que asocian la exposición al plomo aborto espontáneo y los nacimientos prematuros; así como los efectos del plomo sobre la calidad del semen y el incremento de este elemento en hueso durante la menopausia.
- La relación de exposición prenatal al plomo con alteraciones en la metilación genómica del ADN de cordón umbilical y su influencia sobre la futura susceptibilidad a enfermedades.
- Los posibles efectos genotóxicos en niños que habitan en lugares cercanos a fábricas o fundidoras contaminantes; así como la correlación entre polimorfismos de la metilentetrahidrofolato reductasa y el neurodesarrollo de los niños en una población expuesta al plomo han sido de interés para su consulta.

## 2. CONTAMINACIÓN ATMOSFÉRICA POR PARTICULAS FINAS SUSPENDIDAS.



En el contexto de contaminación atmosférica en general, los subtemas frecuentemente consultados son:

- Mortalidad en niños a causa de partículas finas suspendidas, ozono y dióxido de nitrógeno.
- La carga de enfermedades atribuibles a la contaminación del aire.
- La reducción de la frecuencia cardiaca en ancianos que viven en la ciudad de México, como consecuencia de la exposición ambiental a partículas suspendidas menores a 2.5 mm de diámetro y al ozono, sobre todo en personas hipertensas.
- Los efectos tóxicos pre y posnatales de la contaminación del aire.
- La función pulmonar y los síntomas respiratorios relacionados a la exposición al tráfico vehicular.
- Los efectos de la suplementación con ácidos grasos poliinsaturados omega 3 sobre el estrés oxidativo en ancianos expuestos a PM 2.5
- El consumo de antioxidantes como protectores a los efectos de la contaminación ambiental causada por humo de tabaco y otros contaminantes ambientales.

### 3. CONTAMINACIÓN AMBIENTAL Y ASMA EN MÉXICO.

La relación entre la contaminación ambiental en México y el asma en niños es el tercer tema más consultado, los subtemas citados son:

- La suplementación con antioxidantes y la función pulmonar en niños con asma expuestos a altos niveles de contaminantes del aire, principalmente ozono, dióxido de nitrógeno y partículas suspendidas iguales o menores a 10 mm.



- Estudio étnico en Estados Unidos entre mexico–americanos nacidos en ambos países para estimar el impacto de la prevalencia del asma y conocer la importancia del país de nacimiento como factor de riesgo para la aparición de esta enfermedad.
- La relación de polimorfismos de los genes GSTM1 y GSTP1 y la respuesta respiratoria a los efectos del ozono en niños asmáticos.



- Por otra parte ha sido bien citada una investigación sobre el cromosoma 9q21.31 como región genética susceptible que podría estar vinculada con el asma infantil.
- Uno de los estudios recientes bien consultado es el meta-análisis sobre la fuerte asociación de variaciones genéticas en los genes ORMDL3 y GSDML que pueden estar ligados al asma en los niños. Otra liga genética serían los polimorfismos en los genes arginasa-1 y arginasa-2 con el asma y la atopia en niños.
- La investigación sobre la contaminación por humo de tabaco y el riesgo de asma en niños relacionado con la variación genética del factor de necrosis tumoral alfa.
- Otros estudios son: la evaluación del uso de malondialdehído en condensado del aire exhalado como biomarcador de estrés oxidativo y de inflamación de los efectos a la exposición de la contaminación del aire en niños.
- La evaluación exhaustiva de 200 genes candidatos que previamente tuvieron un reporte positivo de asociación con el asma.
- El aumento de síntomas respiratorios en niños asmáticos asociados a la exposición de emisiones vehiculares principalmente del gas natural y diesel.
- La investigación de los patrones dietéticos y la asociación con la incidencia de asma y la exacerbación de esta.
- La prevalencia de asma y dermatitis atópica en niños asmáticos.

#### 4. PLAGUICIDAS.



En el tema de plaguicidas los compuestos organoclorados (ddt y dde) y organofosforados, son subtemas abordados que representan por su toxicidad otro común denominador en el vínculo de las líneas Salud Ambiental y Salud Reproductiva, considerándose el medio ambiente como fuente de exposición a los plaguicidas a partir de sus usos

primordialmente en la actividad agrícola y control de plagas. Los estudios referentes a los plaguicidas se enfocan a los efectos adversos en la salud de la población expuesta, mismos que inciden principalmente sobre la salud y función reproductiva en el ser humano, las investigaciones al respecto son:

- Meta análisis del riesgo de cáncer mamario en mujeres expuestas a compuestos organoclorados.
- Estudio epidemiológico de los efectos adversos del DDT en los sobre la calidad del semen en una población de hombres que viven en una región endémica de Malaria.
- Evaluación de la exposición prenatal de DDT y sus efectos en el índice de desarrollo mental y psicomotor de niños con madres residentes de una zona endémica de Malaria en México.
- Alteración de la posición urogenital o anal en infantes que fueron expuestos perinatalmente al DDT.
- El estudio de polimorfismos genéticos en floricultores expuestos a plaguicida o compuestos organofosforados.
- La alteración de la función de la glándula tiroides como consecuencia a la exposición de plaguicidas organofosforados.
- El riesgo de bajo peso al nacer cuando la mujer embarazada es expuesta a estas sustancias.

## 5. CONTAMINACIÓN AMBIENTAL EN EL HOGAR.

En este subtema; se mencionan los estudios realizados en México referente a las enfermedades respiratorias ocasionadas por la exposición al humo generado en el hogar debido principalmente a la quema de combustible como el carbón y la biomasa que son utilizados para cocinar frecuentemente en hogares rurales, al mismo tiempo se derivan los estudios donde son evaluados los efectos benéficos sobre la salud con la



Estufa Patsari. Imagen: [www.uv.mx](http://www.uv.mx)

introducción en los hogares de estufas mejoradas (Patsari) ahorradoras y ecológicas para la quema de biomasa, consumiendo menos leña y produciendo menos dióxido de carbono.

## 6. ARSÉNICO.



Los estudios sobre la exposición a este elemento químico (el cual aparece listado como sustancia peligrosa por el National Institute for Occupational Safety and Health: NIOSH) versan sobre la incidencia de efectos carcinogénicos y dermatológicos, asimismo los trabajos sobre biomarcadores de estrés oxidativo en población expuesta a esta sustancia también han estado presentes en las citas a las investigaciones internas.

## 7. CAMBIO CLIMÁTICO.

- Un tema de interés relativamente reciente es la asociación del cambio climático en el contexto de la modificación en la temperatura y la contaminación del aire vinculada al incremento de la mortalidad por enfermedades respiratorias en la población de zonas urbanas.



- Asimismo el impacto de esta variabilidad climática sobre la incidencia del dengue, también se han convertido en elementos importantes de estudio.

## 8. CONTAMINACIÓN POR HUMO DE TABACO.



La investigación en el INSP sobre este contaminante ambiental es muy relevante, sobre todo en lo concerniente a la prevalencia del tabaquismo y a políticas públicas para proteger la salud de las personas no fumadoras, lo cual se ha visto reflejado en México con la implementación de la ley que prohíbe fumar en espacios públicos cerrados, lo correspondiente a este tema se encuentra visualizado en el

documento “*LIM en Acción. Promoción de Estilos de Vida Saludables – Sublínea: Tabaco. INSP/CISP, enero 2011*”. En el ámbito de Salud Ambiental y que forma parte de este documento los temas citados relacionados a esta disciplina son los que mencionan los efectos de la contaminación por humo del tabaco sobre la salud de los fumadores pasivos.

- En este rubro han sido citadas las investigaciones relacionadas al riesgo de asma en niños (sobre todo la predisposición genética) por exposición a este contaminante ambiental,
- La atribución del humo de tabaco a la aparición de la enfermedad pulmonar obstructiva crónica,
- Los estudios de exposición al humo de segunda mano antes y después de la aplicación de la ley, la exposición ambiental involuntaria en hogares y lugares públicos cerrados
- El estudio de los niveles de cotinina en personas no fumadoras expuestas.

## 9. CONTAMINACIÓN Y CALIDAD DEL AGUA.

Dentro de Salud Ambiental se aborda el tema de la contaminación del agua reflejada en las publicaciones entre los años de 1999 al 2006 principalmente,





las investigaciones a este respecto están enfocadas a la prevalencia de enfermedades diarreicas causadas principalmente por infecciones parasitarias,

Siendo la población infantil la más vulnerable. Se identifican como causas de contaminación la falta de tratamiento de aguas residuales que son utilizadas en la agricultura o para el riego de

plantíos, el desabasto del agua potable y la carencia del saneamiento de la misma en áreas marginadas y con un alto índice de pobreza. Asimismo, se mencionan las investigaciones donde se busca identificar los instrumentos necesarios para la vigilancia epidemiológica del problema con la finalidad de abordar la protección de la salud de este sector de población, implementando estrategias para el suministro y saneamiento del agua, complementando estas medidas con la adecuación de intervenciones educativas y preventivas tomando como parámetros: la higiene en el hogar, los hábitos de higiene personal y el almacenamiento seguro del agua en los hogares.

## 10. MANGANESO.

El manganeso es un compuesto común que se encuentra en todas partes de la corteza terrestre, siendo un elemento traza necesario para la supervivencia en el ser humano, sin embargo, en elevadas concentraciones por exposición en el ambiente en su forma natural puede ser tóxico. Las alteraciones motoras en humanos y la función intelectual en niños asociadas a su exposición, así como el estudio de biomarcadores de manganeso en sangre en población que reside cerca de minas o depósitos con grandes contenidos de este metal están siendo investigados y han sido consultados.





## **OTROS CONTAMINANTES AMBIENTALES**

Otros contaminantes importantes estudiados por los investigadores dedicados a temas medioambientales y que también han sido citados son: Benceno, bifenilos policlorados, hidrocarburos aromáticos policíclicos, tolueno, cadmio, vanadio, ftalatos, asbestos, bisfenol A y mercurio.

## INVESTIGACIÓN SOBRE SALUD AMBIENTAL EN MÉXICO

Aparte del INSP, existen en México otras instituciones enfocadas al estudio del Ambiente. La Salud Ambiental es una disciplina de cobertura amplia, es por ello que los grupos de investigación se han conformado de expertos de diversas especialidades, quienes a través de sus estudios, tratan de encontrar los elementos necesarios para que los organismos creados para tratar de mitigar y revertir los efectos del deterioro ambiental tengan las herramientas necesarias para la implementación de leyes y programas eficaces para controlar las causas que afectan el ambiente.

En este documento, se dió a conocer la contribución científica de la fuerza de trabajo del Instituto Nacional de Salud Pública sobre temas medio-ambientales, en esta otra sección, se presentan datos de otros investigadores e instituciones que forman parte de la investigación Medio Ambiental en México, lo cual podría ser una herramienta útil para la conformación de futuros grupos multidisciplinarios de investigación en Salud Ambiental.

Para este fin se hizo una breve revisión en la base de datos Medline sobre temas medio-ambientales, se restringieron los resultados a los años 2005-2012 y se seleccionaron aquellas referencias en los cuales los autores contaran con 3 o más artículos sobre estos temas y quienes contaran con datos de adscripción institucional en México.

Los subtemas de investigación en el área ambiental en México que se obtuvieron en la revisión bibliográfica, son en su mayoría los estudiados en el INSP, con excepción de la biodegradación de los contaminantes ambientales, el manejo de los desechos peligrosos y el tratamiento de aguas residuales.

A continuación se presenta un pequeño directorio con datos obtenidos de la revisión bibliográfica, en este se presentan los nombres de los investigadores, los subtemas de interés de cada uno de ellos, su adscripción y correo electrónico actual de la mayoría, con las reservas lógicas del caso, pues algunos investigadores podrían haber cambiado su adscripción o correo electrónico posterior a esta revisión.

## SALUD AMBIENTAL EN MÉXICO



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***Biodegradación – Monitoreo y Recuperación de Suelos Contaminados.***

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## LOS NIÑOS HABLAN CON PINTURAS

A partir de 1991, el Programa de las Naciones Unidas para el Medio Ambiente (PNUMA) en conjunto con la Fundación para la Paz y el Medio Ambiente, Bayer y la Corporación Nikon, organizan cada año el Concurso Internacional Tunza de Pintura Infantil sobre el Medio Ambiente, la cual ha recibido más de tres millones de pinturas de niños de más de 100 países. En su edición 20 correspondiente al año 2011 con el lema “Vida en los Bosques” hubo 61 pinturas ganadoras. A continuación presentamos algunas de ellas cuyas imágenes plasmadas con una prodigiosa y sana imaginación representan lo que la humanidad desea y expresa con palabras.



Primer Lugar

**Trisha Reyes.**

Filipinas (13 años)

*“Mi dibujo muestra dos caras distintas: un bosque sostenible y bello, y las causas de la destrucción de los bosques”*

El dibujo de Trisha muestra a una niña retirando una larga cortina gris cubierta por imágenes de árboles muertos y un paisaje contaminado, para descubrir la imagen de un bosque lleno de color y de vida silvestre. Ella dice que la pintura es un llamado a la población mundial, para que aprecien el valor de los bosques y planten árboles.



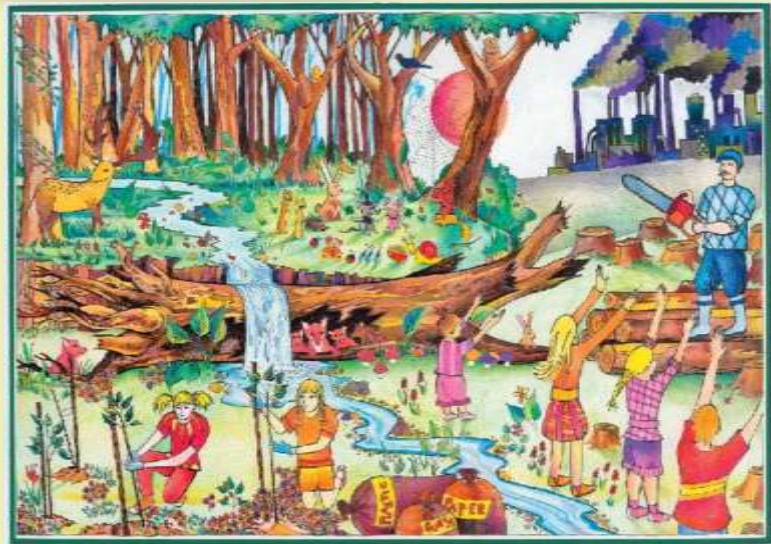


**Hashimoto Erina.**

14 años

Japón

Segundo Lugar



**Hanna Gall.**

12 años

Hungría

Tercer lugar

*Se otorgaron 5 terceros  
lugares*



**Bianca Martin**

15 años

Canadá

Tercer lugar



**Myagka Nastja**

14 años

Ucrania

Cuarto Lugar (11 cuartos lugares)



**Jihan Al Alahra**

6 años

Indonesia

Quinto Lugar (38 quintos lugares)



**México contó con 2  
representantes que  
obtuvieron quinto  
lugar**

**Daniela Pérez**

12 años

México





**Ernesto Uribe**  
14 años  
México  
Quinto lugar  
*Izquierda*



**Yasaman Khademian**  
5 años  
Irán  
Quinto lugar  
*Derecha*

Las siguientes pinturas corresponden a los 2 primeros lugares del Concurso No. 21 (2012) cuyo lema fué "Comunidades Verdes" donde se seleccionaron 63 pinturas ganadoras.



**Diana Fan**  
13 años USA  
Primer lugar



**Ka Mung Leong**  
14 años Malaysia  
Segundo lugar

Visite la galería completa en: [http://unep.org/tunza/children/int\\_comp.aspx](http://unep.org/tunza/children/int_comp.aspx)



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*Documento de Análisis Citográfico preparado por:*

C. D. Daniel Angel Acuña Montesinos  
C. D. Silvia Leonor Rojas Martínez

Apoyo a la Investigación y Revisiones Sistemáticas  
Unidad de Investigación en Diabetes y Riesgo Cardiovascular  
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