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U.S. Environmental Protection Agency

HUMAN RISK ASSESSMENT

Tabular Query Results of NCER Program and Solicitation Information

12 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date
1	R825411	Experimental Validation and Reliability Evaluation of Multimedia Risk Assessment Models	Colorado School of Mines	Robert Siegrist, Helen Dawson, and Andrew Sheldon	Bill Stelz	$256,174	December 15, 1996 - December 14, 1998
2	68D50115	A Novel Extractant for the Selective Removal of Arsenic from Industrial Wastewaters	TDA Research, Inc.	Dr. Kevin Gleason	none	$220,000	September 1995 - January 1998
3	68D70048	Innovating Complexing Agents for Recovery of Heavy Metals in Municipal and Industrial Wastewater	Technochem Company	Dr. Ashok S. Damle	none	$225,000	September 1997 - March 1999
4	R825410	Development of Chemical Methods to Assess the Bioavailability of Arsenic in Contaminated Media	Oklahoma State University; University of Missouri-Columbia	Nicholas T. Basta, Robin R. Rodriguez,and Stan W. Casteel	Bill Stelz	$431,677	November 1, 1996 - October 31, 1999
5	R825358	Improving Methods for Identifying Noncancer Risks Application of Cell Kinetic Models for Methylmercury Risk	University of Washington	Elaine Faustman and Brian Leroux	David Reese	$390,827	October 1, 1996 - September 30, 1999

		Assessment					
6	R825403	Rates of Arsenic Oxidation-Reduction Reactions in Contaminated Soils Effects on Arsenic Fate and Mobility	Montana State University	William P. Inskeep	Bill Stelz	$329,735	December 15, 1996 - December 14, 1999
7	R825218	Mercury as an Insulin Mimic Mechanism of Action and Potential Physiological Consequences	University of Arkansas	David M. Barnes	Clyde Bishop	$481,991	November 15, 1996 - November 14, 2001
8	R826137	A Dose-Response and Susceptibility Investigation of Skin Keratoses and Hyperpigmentation due to Ingestion of Arsenic in Drinking Water	University of California, Berkeley	Allan H. Smith	Sheila Rosenthal	$861,788	September 5, 1997 - September 4, 2000
9	none	Comparative Liver Pathology Development and Endocrine Disruption in Fish and Birds	Center for Ecological Health Research (Cal-Davis)	D.M. Fry, D.E. Hinton, B. W. Wilson	none	none	6/30/96 ending date
10	R825289	Geochemical, Biological and Economic Effects of Arsenic and Other Oxyanions on a Mining Impacted Watershed	University of Nevada Reno; Desert Research Institute; Lawrence Berkeley Laboratory	Glenn Miller, Watkins W. Miller, Scott Tyler, Douglass Shaw, Ron Hershey, Lambis Papelis, Susan Anderson	Barbara Levinson	$767,805	January 1, 1997 - December 31, 1999
11	R827168	Social Impact Assessment of Human Exposure to Mercury Related to Land Use and Physicochemical Settings in the Alabama-Mobile River System	University of Alabama and Austin College	Jean-Claude J. Bonzongo, Eric E. Roden, Hobson C. Bryan, W. Berry Lyons, Milton G. Ward, and Indrajeet Chaubey	Barbara Levinson	$804,534	December 21, 1998 December 20, 2001
12	R826189	Physiochemical and Microbial Controls on the Speciation and Release of Arsenic into Ground and Surface Waters	University of Wisconsin	Robert J. Hamers and Jillian F. Banfield	S. Bala Krishnan	$312,496	January 1, 1998 - December 31, 2000

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BIOLOGICAL/ECOLOGICAL/ENVIRO EFFECTS

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Tabular Query Results of NCER Program and Solicitation Information

30 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date
1	none	Heavy Metals Removal from Contaminated Water Solutions	Montana State University	Z. Lewandowski, G.G. Geesey, and F.L. Roe	none	none	none
2	none	Biotransformation of Lead and Chromate by Bacteria	Xavier University	Robert C. Blake	none	none	none
3	none	Mercury and Iron Biogeochemistry	Center for Ecological Health Research (Cal-Davis)	Thomas Suchanek, Peter Richerson	none	none	6/30/95 ending date
4	none	Effects of Surfactants on the Bioavailability and Biodegradation of Contaminants in Soils	Montana State University; Mycotech Corporation	W.P. Inskeep and J.M. Wraith; C.G. Johnston	none	none	none
5	none	Chelating Extraction of Heavy Metals from Contaminated Soils	University of Utah; University of Missouri	A.P. Hong and R.W. Okey; S.K. Banerji	none	none	none

6	none	Fate and Transport of Heavy Metals and Radionuclides in Soil: The Impacts of Vegetation	Kansas State University	A.P. Schwab, M.K. Banks, and L.E. Erickson	none	none	none
7	034UHH0392	Stress Protein Responses to Multiple Metal Exposure in Grass Shrimp	University of Houston	Cynthia L. Howard	none	none	none
8	R823576	NMR Structural Studies of Mercury Transport Proteins	University of Pennsylvania	Stanley J. Opella	Clyde Bishop	$404,667	October 1995 - September 1998
9	R827633	Chemical and Biological Control of Mercury Cycling in Upland, Wetland and Lake Ecosystems in the Northeastern U.S.	Syracuse University, Syracuse, NY 13244 Cornell University, Ithaca NY 14853 Smith College, Northhampton, MA 01063 Tetra Tech, Inc., Provo, UT 84604	Charles T. Driscoll (ctdrisco@mailbox.syr.edu), Department of Civil and Environmental Engineering, Syracuse University Joseph Yavitt, Department of Natural Resources, Cornell University Robert Newton, Department of Geology, Smith College Ronald Munson, Te	Barbara Levinson	$786,680	Nov. 1, 1999 to Oct. 31, 2002
10	none	Wildlife Bioaccumulation and Effects	Center for Ecological Health Research (Cal-Davis)	Daniel Anderson	none	none	6/30/95 ending date
11	R825249	Light Induced Mercury Volatilization from Substrate Mechanism(s) Responsible and In situ Occurrence	University of Nevada-Reno	Mae Sexauer Gustin	Bill Stelz	$288,645	December 15, 1996 - December 14, 1999
12	R824778	The Role of Hg(II) Reduction and Chemical Speciation in Controlling the Concentration of	Department of Geosciences, Princeton University	Franþois M.M. Morel	Barbara Levinson	$349,950	November 1, 1995 - October 31, 1998

		Mercury and its Methylation in Natural Waters					
13	R825245	Dynamic Exchange of Volatile Species and Semivolatile Organic Contaminants Across the Air-Water Interface of the Chesapeake Bay	University of Maryland	Joel E. Baker and Robert P. Mason	Deran Pashayan	$449,989	October 1, 1996 - September 30, 1999
14	none	Microbiological Processes in Sediments	Center for Ecological Health Research (Cal-Davis)	Douglas Nelson	none	none	6/30/95 ending date
15	R820779	Microbial Mediation of HIo/Hg2+ Cycling in Soil and Water	University of Georgia	Anne 0. Summers	none	$361,381	3 years
16	R827915	The Redox Cycle of Mercury in Natural Waters	Department of Geosciences, Princeton University	Franpois M. M. Morel (morel@geo.princeton.edu)	Barbara Levinson	$726,318	10/11/99 - 10/10/02
17	R824779	Formation and Propagation of Large-scale Sediment Waves in Periodically Disturbed Mountain Watersheds	University of Minnesota	Gary Parker	Barbara Levinson	$280,000	January 1996 - December 1998
18	R826651	The Particle Size Distribution of Toxicity in Metal-Contaminated Sediments	Colorado School of Mines,1 Colorado State University2	James Ranville,1 Donald Macalady,1 Phillipe Ross1, William Clements2	S. Bala Krishnan	$372,795	September 1, 1998 - August 31, 2001
19	R827632	Photo Induced Reduction of Mercury in Lakes, Wetlands, and Soils	University of Michigan, Ann Arbor, MI; Oak Ridge National Laboratory, Oak	Jerome O. Nriagu, Principal Investigator (PI), University of Michigan; Gerry Keeler, Co-PI, University of Michigan; Steve Lindberg, Co-Investigator, Oak	Barbara Levinson	$865,771	9/1/1999 to 8/31/2002

			Ridge, TN	Ridge National Laboratory; Hong Zhang, Co-Investigator, Oak Ridge National Laboratory; John Lehrman, C			
20	R826199	Application of Sediment Quality Criteria for Metals to a Montane Lotic Ecosystem: Field Validation During Reclamation of a Copper Mine Causing Acid Mine Drainage	University of Wyoming	Joseph S. Meyer, Jeffrey A. Lockwood, Richard W. Rockwell	David Reese	$449,558	April 1, 1998 - March 31, 2001
21	R824771	The Role of Long-Lived Zooplankton Diapausing Eggs Response and Recovery of Impacted Lakes	Cornell University	Nelson G. Hairston, Jr., and Edward L. Mills	Barbara Levinson	$350,000	March 1996 - February 1999
22	R825289	Geochemical, Biological and Economic Effects of Arsenic and Other Oxyanions on a Mining Impacted Watershed	University of Nevada Reno; Desert Research Institute; Lawrence Berkeley Laboratory	Glenn Miller, Watkins W. Miller, Scott Tyler, Douglass Shaw, Ron Hershey, Lambis Papelis, Susan Anderson	Barbara Levinson	$767,805	January 1, 1997 - December 31, 1999
23	R827631	Response of Methylmercury Production and Accumulation to Changes in Hg Loading: A Whole-ecosystem Mercury Loading Study	The Academy of Natural Sciences Estuarine Research Center, The University of Maryland, Chesapeake Biological Laboratory, Canada Department of Fisheries and Oceans, Freshwater Institute	Cynthia C. Gilmour (gilmour@acnatsci.org), Andrew Heyes, Robert P. Mason, and John M. Rudd	Barbara Levinson	$848,029	Oct. 1, 1999 - Sept. 30, 2002

24	R827168	Social Impact Assessment of Human Exposure to Mercury Related to Land Use and Physicochemical Settings in the Alabama-Mobile River System	University of Alabama and Austin College	Jean-Claude J. Bonzongo, Eric E. Roden, Hobson C. Bryan, W. Berry Lyons, Milton G. Ward, and Indrajeet Chaubey	Barbara Levinson	$804,534	December 21, 1998 December 20, 2001
25	R826189	Physiochemical and Microbial Controls on the Speciation and Release of Arsenic into Ground and Surface Waters	University of Wisconsin	Robert J. Hamers and Jillian F. Banfield	S. Bala Krishnan	$312,496	January 1, 1998 - December 31, 2000
26	R827638	Developing Effective Ecological Indicators for Watershed Analysis	Yellowstone Ecosystem Studies (Y.E.S.), Bozeman, Montana; Idaho State University, Pocatello, Idaho; Montana State University, Bozeman, Montana	Principal Investigator: DT. Duncan Patten (dtpatten@mcn.net), Yellowstone Ecosystems Studies (Y.E.S.); Project Manager: Dr. Robert Crabtree, Y.E.S.; Co. PI: Dr. Wayne Minshall, Y.E.S. and Idaho State University; Co. PI: Dr. Rick Lawrence, Montana State Un	Barbara Levinson	$868,242	July 1, 1999 to June 30, 2002
27	R827653	Understanding the Role of Sulfur in the Production and Fate of Methylmercury in Watersheds	Chesapeake Biological Laboratory, University of Maryland, and The Academy of Natural Science, Estuarine Research Center	Drs. Robert P. Mason (mason@cbl.umces.edu) (Chesapeake Biological Laboratory) and Cynthia Gilmour (The Academy of Natural Science)	Barbara Levinson	$779,786	Oct. 1, 1999 - Sept. 30, 2002
28	R827635	Microbiological and Physicochemical Aspects of Mercury Cycling in the Coastal/Estuarine Waters of Long Island Sound and Its River-Seawater	Dept. of Marine Sciences, University of Connecticut, Groton CT 06340	William F. Fitzgerald (wfitzger@uconnvm.uconn.edu) and Pieter T. Visscher	Barbara Levinson	$592,035	October 1, 1999 - September 30, 2002

		Mixing Zones					
29	R827629	Watershed Influences on Transport, Fate, and Bioavailability of Mercury in Lake Superior	(1) Bureau of Integrated Science Services, Wisconsin Department of Natural Resources, Monona, WI 53716; (2) University of Wisconsin-Madison, Madison, WI 53706; (3) Lake Superior State Univ., Sault Ste. Marie, MI 49783	James P. Hurley 1, 2 (hurley@wrc.wisc.edu), Principal Investigator; Richard C. Back 3, Co-Investigator; D.E. Armstrong 2, Co-Investigator; M.M. Shafer 2, Co-Investigator.	Barbara Levinson	$829,384	October 1, 1999 - September 30, 2002
30	R827630	Methylmercury Sources to Lakes in Forested Watersheds: Has Enhanced Methylation Increased Mercury in Fish Relative to Atmospheric Deposition?	University of Minnesota/MPCA	Edward B. Swain (edward.swain@pca.state.mn.us), Minnesota Pollution Control Agency, St Paul, MN 55155. Patrick L. Brezonik, Civil Engineering, University of Minnesota, Minneapolis, MN 55455. Edward Nater, Department of Soil, Water, and Climate, University	Barbara Levinson	$847,690	Oct. 1, 1999 - Sept. 30, 2002

Collections that were searched are:
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Query was:
R825249 OR R823576 OR R827633 OR Chemical and Biological Control of Mercury Cycling in Upland OR R824778 OR R827915 OR R820779 OR R827630 OR R825289 OR R827632 OR R826199 OR Mercury and Iron Biogeochemistry OR R827631 OR R827629 OR R825245 OR R827168 OR R827635 OR Fate and Transport of Heavy Metals and Radionuclides in Soil: OR R827653 OR 034UHH0392 OR R824771 OR Wildlife Bioaccumulation and Effects OR Biotransformation of LEAD and Chromate by Bacteria OR Heavy Metals Removal from Contaminated Water Solutions OR R824779 OR R826651 OR Effects of Surfactants on the Bioavailability and Biodegradation of Contaminants OR R826189 OR R827638 OR Microbiological Processes in Sediments OR Chelating Extraction of Heavy Metals from

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CHARACTERIZATION / MONITORING

Tabular Query Results of NCER Program and Solicitation Information

6 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date
1	68D60054	Development of an Ultra Sensitive Continuous Monitor for Mercury and Other Trace Metals in Flue Gas	EEI	Dr. Donald H. McNeill	none	$225,000	September 1996 - November 1998
2	68D98146	Hybrid Electrochemical-Piezoelectric Sensor for RCRA Metals in Water	BIODE, Inc.	Dr. Jeffrey C. Andle	none	$69,996	September 1998 - March 1999
3	68D50121	Chemical Microsensors and Instrumentation for Continuous Monitoring and Control of Mercury Emissions	Senova Corporation	Dr. Ian W. Sorensen	none	$219,185	September 1995 - April 1996
4	R825249	Light Induced Mercury Volatilization from Substrate Mechanism(s) Responsible and In situ Occurrence	University of Nevada-Reno	Mae Sexauer Gustin	Bill Stelz	$288,645	December 15, 1996 - December 14, 1999
5	R825380	Real-Time Trace Detection of Elemental Mercury and its Compounds	New Jersey Institute of Technology; Poulos Technical Services, Inc.	Robert Barat and Arthur T. Poulos.	Bill Stelz	$199,121	November 25, 1996 - November 24, 1998
6	68D99077	Hybrid Electrochemical-Piezoelectric Sensor for RCRA Metals in	BIODE, Inc.	Dr. Jeffrey C. Andle	none	$224,155	September 1999 -

		Sensor for RCRA Metals in Groundwater: Detection of Hexavalent Chromium		Andle		1999 - September 2001

Collections that were searched are:
Research Center Research Projects
Fellowship Research Projects
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Small Business Innovation Research Projects

Query was:
R825249 OR R825380 OR 68D50121 OR Atmospheric Deposition: Air Toxic At Lake Superior OR 68D60054 OR 68D98146 OR 68D99077

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MODELING AND PREDICTIVE TOOLS ; FATE & TRANS

Tabular Query Results of NCER Program and Solicitation Information

4 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date
1	none	Control of Mercury Emissions from Coal Fired Power Plants Using Fly-Ash-Derived Carbon	Michigan Technological University	J.Y. Hwang, X. Huang, R.E. Tieder and X. Liu	none	none	none
2	R825411	Experimental Validation and Reliability Evaluation of Multimedia Risk Assessment Models	Colorado School of Mines	Robert Siegrist, Helen Dawson, and Andrew Sheldon	Bill Stelz	$256,174	December 15, 1996 - December 14, 1998
3	none	Development Of Speciation And Sampling Tools For Mercury In Flue Gas	University of North Dakota - EERC	Jeffrey S. Thompson, Richard L. Schulz	none	$120,000	9/28/98 ending date
4	R825794	Evaluation of Natural Amelioration of Acidic Deep Mine Discharges for Watershed Restoration	Carnegie Mellon University	David A. Dzombak, William W. Aljoe	Barbara Levinson	$610,484	June 1, 1998 - May 31, 2001

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REMEDIATION & TREATMENT/ Control of RELEASES from MINING SITES

Tabular Query Results of NCER Program and Solicitation Information

15 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Propo Start
1	none	Heavy Metals Removal from Contaminated Water Solutions	Montana State University	Z. Lewandowski, G.G. Geesey, and F.L. Roe	none	none	none
2	none	Biotransformation of Lead and Chromate by Bacteria	Xavier University	Robert C. Blake	none	none	none
3	none	Acid Producing Metalliferous Waste Reclamation by Material Reprocessing and Vegetative Stabilization	Montana State University	F.F. Munshower	none	none	none
4	none	Superfund Sites and the Mineral Industries Methods	Chemical and Fuels Engineering, University of Utah	Dr. Donald A. Dahlstrom	none	none	none
5	none	Vegetative Interceptor Zones for Containment of Heavy Metal Pollutants	University of Northern Iowa; Kansas State University	B.A.D. Hetrick; G.M. Pierzynski, L.E. Erickson, R.S. Govindaraju and D. Sweeney	none	none	none
6	none	Currents in Clear Lake	Center for Ecological	Geoffrey Schladow	none	none	6/30/9 ending

			Health Research (Cal-Davis)				date
7	68D98123	High-Performance Electrolysis for In-Situ Remediation of Heavy Metals	Environmental Chemical Corporation	Dr. Jurgen H. Exner	none	$70,000	Septe 1998 - March 1999
8	68D98151	High-Performance Extraction of Heavy Metals with Tethered Metal-Binding Ligands	ChelaTech, Inc.	Dr. Richard F. Hammen	none	$70,000	Septe 1998 - March 1999
9	68D99034	Microwave-Assisted Oxidative Recovery of Cyanide From the Thiocyanate-Containing Solutions	BioQuest	Dr. Emil Milosavljevic	none	$69,480	Septe 1999 - March 2000
10	68D99054	A Novel Approach to Prevention of Acid Rock Drainage	Little Bear Laboratories, Inc.	Dr. Gregory J. Olson	none	$69,968	Septe 1999 - March 2000
11	R826649	Photochemical Processes Controlling Manganese Chemistry in Pristine and Contaminated Mountain Streams	University of Colorado and University of Texas-Dallas	Diane M. McKnight and Duane Hrncir	S. Bala Krishnan	$351,175	Octobe 1998 - Septe 30, 20
12	68D99077	Hybrid Electrochemical-Piezoelectric Sensor for RCRA Metals in Groundwater: Detection of Hexavalent Chromium	BIODE, Inc.	Dr. Jeffrey C. Andle	none	$224,155	Septe 1999 - Septe 2001
13	R826199	Application of Sediment Quality Criteria for Metals to a Montane Lotic Ecosystem: Field Validation During Reclamation of a Copper Mine Causing Acid Mine Drainage	University of Wyoming	Joseph S. Meyer, Jeffrey A. Lockwood, Richard W. Rockwell	David Reese	$449,558	April 1 1998 - March 2001
14	R825289	Geochemical, Biological and Economic Effects of Arsenic	University of Nevada Reno;	Glenn Miller, Watkins W. Miller, Scott Tyler, Douglass	Barbara Levinson	$767,805	Januar 1997 -

		and Other Oxyanions on a Mining Impacted Watershed	Desert Research Institute; Lawrence Berkeley Laboratory	Shaw, Ron Hershey, Lambis Papelis, Susan Anderson			Decem 31, 19
15	R827634	Processes Controlling the Chemical/Isotopic Speciation and Distribution of Mercury from Contaminated Mine Sites	Stanford University, Stanford, CA (Brown, Ireland, Grolimund, Kim), University of Nevada-Reno, Reno, NV (Gustin), U.S. Geological Survey, Menlo Park, CA (Rytuba)	Gordon E. Brown, Jr. (gordon@pangea.stanford.edu), Trevor R. Ireland, Mae S. Gustin, James J. Rytuba (collaborator), Daniel Grolimund, Christopher S. Kim	Barbara Levinson	$708,634 ($549,680 to Stanford Univ., $158,954 to Univ. of Nevada-Reno)	10/1/9 9/30/0

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Query was:
R825289 OR R826199 OR R827634 OR 68D98123 OR Acid Producing Metalliferous Waste Reclamation OR R826649 OR Currents in Clear Lake OR 68D99077 OR Superfund Sites and the Mineral Industries Methods OR 68D99054 OR Vegetative Interceptor Zones for Containment OR 68D98151 OR 68D99034 OR Biotransformation of Lead and Chromate OR Heavy Metals Removal from Contaminated

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