

## Ethics in psychosocial and biomedical research – A training experience at the Interdisciplinary Center for Bioethics (CIEB) of the University of Chile<sup>1</sup>

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**Abstract:** This paper reviews the experience in training Latin American professionals and scientists in the ethics of biomedical and psychosocial research at the Interdisciplinary Center for Studies in Bioethics (CIEB) of the University of Chile, aided by a grant from Fogarty International Center (FIC) – National Institutes of Health from 2002 to 2011. In these 10 years of experience, 50 trainees have completed a 12-month training combining on-line and in-person teaching and learning activities, with further support for maintaining contact via webmail and personal meetings. The network formed by faculty and former trainees has published extensively on issues relevant in the continent and has been instrumental in promoting new master level courses at different universities, drafting regulations and norms, and promoting the use of bioethical discourse in health care and research. Evaluation meetings have shown that while most trainees did benefit from the experience and contributed highly to developments at their home institutions and countries, some degree of structuring of demand for qualified personnel is needed in order to better utilize the human resources created by the program. Publications and other deliverables of trainees and faculty are presented.

**Keywords:** Bioethics, Ethics training, Biomedical research, Psychosocial research

### Ética en investigación biomédica y psicosocial – Experiencia de capacitación en el Centro Interdisciplinario de Estudios en Bioética (CIEB) de la Universidad de Chile

**Resumen:** El presente artículo revisa la experiencia de capacitación en ética de investigación biomédica y psicosocial a profesionales y científicos latinoamericanos en el Centro Interdisciplinario de Estudios en Bioética de la Universidad de Chile, con el apoyo de un grant del Centro Internacional Fogarty de los Institutos Nacionales de la Salud de Estados Unidos, de 2002 a 2011. En estos 10 años de experiencia, 50 profesionales han completado una capacitación de 12 meses, que combina actividades de aprendizaje en línea y presenciales con apoyo vía email y tutoría. La red, formada por los académicos del programa y los participantes, ha publicado extensamente en temas relevantes para el continente y ha sido instrumental en promover cursos de nivel de magíster en diferentes universidades, proponer regulaciones y promover el uso del discurso bioético en la atención de salud y la investigación. Los encuentros de evaluación han demostrado que, aun cuando la mayoría de los participantes se beneficiaron de la experiencia y contribuyeron grandemente al desarrollo en sus instituciones y su país, se necesita algún grado de estructuración para la demanda de personal calificado que pueda utilizar mejor los recursos humanos creados por el programa. Se presentan las publicaciones y otros productos de académicos y participantes en el programa.

**Palabras clave:** bioética, capacitación en ética, investigación biomédica, investigación psicosocial

### Ética na pesquisa biomédica e psicossocial – Experiência de capacitação no Centro Interdisciplinar de Estudos em Bioética (CIEB) da Universidade do Chile

**Resumo:** O presente artigo revisa a experiência de capacitação em ética da pesquisa biomédica e psicossocial a profissionais e cientistas latino-americanos no Centro Interdisciplinar de Estudos em Bioética da Universidade do Chile, com o apoio de bolsa do Centro Internacional Fogarty dos Institutos Nacionais de Saúde dos Estados Unidos, de 2002 a 2011. Nestes 10 anos de experiência, 50 profissionais completaram uma capacitação de 12 meses, que combina atividades de aprendizagem “on line” e presenciais com apoio via e-mail e tutoria. A rede formada por acadêmicos do programa e participantes publicou extensamente temas relevantes para o continente e foi instrumental em promover cursos em nível de mestrado em diferentes universidades, propor regulamentações e promover o uso do discurso bioético na atenção à saúde e à pesquisa. Os encontros de avaliação têm demonstrado que, mesmo que a maioria dos participantes tenha se beneficiado da experiência e contribuído grandemente para o desenvolvimento de suas instituições e seu país, ainda necessita de algum grau de estruturação para a demanda de pessoal qualificado que possa utilizar melhor os recursos humanos criados pelo programa. São apresentados publicações e outros produtos de acadêmicos e participantes do programa.

**Palavras-chave:** bioética, capacitação em ética, pesquisa biomédica, pesquisa psicossocial

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## **Background**

The University of Chile, the oldest public university in Chile and the most accredited research institution in the country, ranking among the most productive and solvent in the Region of the Americas and the Caribbean, has pioneered in the establishment of new fields of inquiry. Bioethics was among them.

The Interdisciplinary Center for Studies on Bioethics (CIEB) was established in 1993(1) and in 1994 it entered into collaboration with the Regional Program on Bioethics established by an agreement between the Chilean Government, the University of Chile and the Pan American Health Organization (PAHO). The latter, with several bureaucratic vicissitudes, lasted until March 2010.

Throughout its existence, CIEB has been instrumental in promoting the dissemination of bioethical discourses and practices in the website [www.bioetica.uchile.cl](http://www.bioetica.uchile.cl) and through the indexed, peer-reviewed journal *Acta Bioethica* (ISSN 0717-5906), published with support from PAHO until 2010 and from 2011 onwards in electronic format ([www.actabioethica.cl](http://www.actabioethica.cl)). CIEB also edits books, congress proceedings and monographic issues of *Acta Bioethica*, freely available at the websites.

CIEB also participates in seminars, congresses, and workshops in Latin America, the USA, and Europe and conducts research projects supported by private and governmental sources, such as the Ford Foundation, the Rockefeller Foundation, the US Department of Energy, the Chilean Research Commission, the Alexander von Humboldt Foundation and the US National Institutes of Health (NIH).

This paper reviews one long lasting project supported by the National Institutes of Health (NIH) through grants from the Fogarty International Center in collaboration with other Institutes. For 10 years, from 2002 thru 2011, the emphasis has been placed on training selected professionals and academics from Latin America and the Caribbean in biomedical and psychosocial research ethics.

Topics covered have been diverse and recruitment of trainees encouraged multidisciplinary and differences in outlooks. Throughout the years, with different emphases, the main goal has been to help increase the number of persons familiar with the ethics of research in the biomedical and psychosocial disciplines and to foster the development of training programs at different institutions of the continent. This is important since previous projects have depended on help external to the cultural milieu of the Latin American countries and the need to establish a “culture-fair” bioethics was felt by individuals and institutions.

## **Curricular development in research ethics – a culture-sensitive approach**

Despite improvements in research output in the biological, social, and medical sciences, several problems remain, with ethical underpinnings that justify training in research bioethics in the Region of South and Central America. Some aspects relevant to a training program in research ethics were identified and provided the rationale for this training program.

### ***The 10/90 gap***

Enhancements in global health status have been accompanied by a widening health and poverty gap between countries. Most of the funds allotted to research continue to focus on the health problems of the world’s richest populations. Attending to this disparity, known as the 10/90 gap, the Global Forum for Health Research recommended that resource-poor countries should strengthen management of health research so as to meet their national needs as well as contribute to global knowledge. Increase in research output naturally demands sound ethical oversight.

### ***Globalization and resource-poor countries***

The trend to globalization in clinical and psychosocial research implies that sponsors in economically advanced countries outsource trials and research to poor communities within developed countries or, most frequently, to resource-

poor nations. The cost of conducting research is less than in advanced countries. Poor countries offer large patient pools for diseases, thus ensuring rapid recruitment and reduction of time for completing trials. Regulations are weak or non-existent, and lack of qualified policymakers and scientists create an imbalance between what is offered to communities and the actual benefits in terms of manpower development or economic support. Public awareness about the need to ethical control of research is imperative.

### ***The know-do gap***

Another aspect that merits consideration is the so called “know-do gap”. While information is available on many health-related issues, its conversion to policy and practical measures is delayed precisely in those countries where its application would make a difference in living conditions. This is not only a matter of economic importance. Its ethical dimension arises from the fact that resource-poor countries- or some privileged groups within them- consider that they have the right to enjoy the highest possible standard derived from scientific progress. Only a cadre of professionals conversant with the state of the art in research and also aware of the value-laden nature of scientific knowledge can enter into a dialogue with experts and lay people regarding the appropriateness and timeliness of investments in the conversion of data into practice. On the other hand, an equitable distribution of the benefits derived from scientific research is a matter for ethical reflection by the scientific community, policymakers, and public at large.

### ***Research: cultural implications and responsible conduct***

Research is a context-dependent, patterned cultural process. Some activities called research in less developed countries would not qualify as such in scientifically alphabetized countries. Social *demand* for research (as different from *need* or *desire*) continues to be low in Latin America, as reflected in resource allocation, social recognition, and employment opportunities.

Ethical considerations affect quality of research and opportunities for collaborative work. In many Latin American countries informed consent, responsible conduct of research, risk assessment, protection from harm, privacy and confidentiality, equitable opportunities for subjects, and avoidance of stigmatization (among other issues) are still more a matter of compliance with donor agencies than a felt need of the scientific community. A combination of face-to-face and distant training *within the same cultural community* has proven appropriate for dealing with these issues. Ethics is always local, despite the fact that research may be considered a universal intellectual enterprise.

### ***Social roles: clinician and/or researcher***

Scarcity of personnel, professional traditions, and restricted funding are responsible for confusion between the roles of *caregiver* and *researcher* in many Latin American settings. Pervasive “therapeutic misunderstandings”<sup>(1,2)</sup>, inadequate notions of “standard of care”, different contextual interpretation of guidelines stemming from other cultures, and discrepancies between researchers from different countries/traditions/professions militate against a unified view of the research enterprise that could be applied to improve quality and train scholars. This training program confronted trainees with real-life examples of research in specific contexts and/or in response to felt needs of populations and institutions. Special emphasis given to public health topics and anthropological analysis was dictated by the priorities of healthcare systems in the continent and the multicultural, pluralistic environments in which researchers must act.

### ***International collaboration: essential scientific dialogue***

Increasing globalization of the research enterprise and the need to enter into meaningful dialogues for good results make it imperative to develop local capacity. The challenge is not only to increase sound scientific production. It is to establish a pattern of collaboration that not reproduces power relations frequent in other spheres (such

as economics) or the irrational fight against “foreign” influence (characteristic of some political discourses). A constructive contribution of Latin American science requires sound ethical oversight systems, good quality training, and awareness of the needs and expectations of the populations. Even if our trainees were not in the forefront of research, their expanded vision of the situation and the awareness of the goals of research in its proper context would help improve the translation of evidence-based facts into value-based actions

### ***Human diversity: challenge and opportunity***

Research ethics curricula face the challenge of multiethnic and multicultural contexts existent in Latin America, whose indigenous population averages 11% but varies widely from 80% in Bolivia, 60% in Guatemala and 40% in Peru. Even language diversity is a factor hampering research, particularly in the field of social studies and public health. Stigmatization has been found to affect genomics research in populations and the need for a “culture fair” approach to data gathering and interpretation is as an ethical imperative as the need to respect dignity or request consent. The notion of “ethical sustainability”, essential in our continent-wide work, stresses what international documents identify as essential in the pursuit of science at the service of development. UNESCO Universal Declaration on Bioethics and Human Rights, among other documents, underscores the vulnerability of resource-poor populations and the ethical imperative to avoid the typical “safari research”: researchers from affluent societies behave as “data hunters” and disregard opportunities for real collaboration. Our emphasis on a self-generating faculty and permanent dialogue was an exercise in “counter-alienation” of researchers and an invitation to make real the “bi-directional” character of all ethical dialogue. The sustainability of this effort is ensured by the empirical, albeit anecdotal, evidence we have gathered during the conduction of the program. The danger of a group that is closed and immune to criticism is not supported by our experience.

These factors justify the need for highly trained professionals from developing countries to as-

sume positions of leadership nationally and internationally in addressing the ethical and social issues of global health research. Since this research is inherently multidisciplinary and interdisciplinary, students from a growing range of disciplines directly or indirectly related to health seek training, thus producing a heterogeneous group whose members not necessarily share the same ethos of service or are not sufficiently committed to the relationship between science and ethics in the creation and application of knowledge. There are also wide cultural variations regarding the social implications of scientific research, the roles of researchers in the community, and the expectations regarding social impact of science and technology.

The training program developed by CIEB aimed at consolidating and expanding an “ethically sustainable” research agenda in a globalized context by training groups of professionals able to participate as researchers, policymakers, advisors to legislators, and mentors for new generations of academics. It is recognized that ethical oversight of research is best performed locally; avoiding mistrust and dependence (sometimes associated with foreign funding and foreign institutions) the autonomy of the groups and institutions was sought.

### ***Research accountability***

Research is an activity not widely performed in the Latin American continent. Scientists and scholars represent a privileged minority and many of its members feel that they belong to elites whose contribution to science and technology may be hampered or otherwise limited by ethical oversight. All along, the emphasis on accountability of researchers and research has been a permanent feature of our training effort.

### ***Approaches and experiences***

After successful application (about 30 applicants annually), five to six trainees were selected each year for courses and activities at CIEB, with an international faculty. Table 1 presents a listing of trainees with their professions, country of origin, and other relevant information. The program was

advertised through standard academic channels (websites and flyers). Former graduates constituted a good source of information for new applicants. The selection process involved analysis of previous activities, publications and other deliverables, and support from home institutions in order to keep a position or provide development opportunities after training. The acceptance rate was on average 15 to 20 %, depending on the number of good applicants.

The program underwent changes. At the beginning, no virtual (on-line) component was present and trainees were hosted at the CIEB, University of Chile, for nine months; three additional months spent doing work in a country different from the country of origin. Thus, useful contribution to the development of ethics committees and ethics regulations was possible in Peru, Dominican Republic, and Costa Rica. In the ensuing years, with the introduction of virtual learning modules adapted from the CITI program developed at the University of Miami and the Fred Hutchinson Cancer Center, Seattle, Washington<sup>4</sup>, a period of virtual training was introduced before the in-person, face-to-face portion of the program. This period served for providing a common ground for all successful applicants, homogenized the language and familiarized trainees with the topics and terminology to be employed in the courses offered at CIEB in Santiago. The in-person period at CIEB was reduced to three months of full time commitment. The virtual phase served as a baseline for comparison with knowledge and attitudes at the end of the training period; it was used also as a teaching device: trainees were requested to develop modules of their own and contribute to the improvement of the virtual course.

During their stay at the CIEB in Santiago, Chile, trainees were exposed to a wide range of contents and training experiences. Courses were offered on the philosophical foundations of ethics, the history of bioethical thinking, the applications of bioethical discourse to research questions, statistical reasoning as it pertains to ethical formulation of methods, bioethical problems arising in medical and psychosocial research, qualitative and quantitative research methods, health economics,

<sup>4</sup> Available at <http://www.citiprogram.com>

institutionalization of bioethics, structure and functions of ethics committees, anthropology and bioethics, and other topics selected on the basis of personal interests and available teaching resources. Trainees participated in sessions of research ethics committees, had opportunity to interact with international scholars visiting the CIEB and were requested to select a topic to be dealt with in depth as a final exercise of in-person period. These essays were presented in evaluation sessions, graded, and constituted publications in accredited journals or presentations at seminars, workshops, or congresses, attendance to which was sometimes covered by special allowances from the program.

A list of publications produced by trainees and faculty during the period 2002-2011 is presented in the Appendices.

During the first two years of the program, along with formal training and delivery of the above mentioned contents, other activities were programmed. Among them was exposure to group dynamics and direct experience with emotional manifestations in group sessions. This activity demanded some effort on the part of faculty and trainees and although results were enlightening, the practice was abandoned in view of resistances voiced by some participants.

The training period at CIEB was mainly devoted to work in groups under the leadership of a faculty member, avoiding any resemblance to an asymmetrical relation of the type mentor-trainee or tutor-trainee. *The covert dimension of the curriculum was to illustrate practically the dialogical nature of the bioethical enterprise and the development of bioethical discourse through open manifestation of ideas.*

Among the guiding principles implemented, the following can be mentioned:

- *Methodical pluralism.* “Solutions” given by different disciplines to ethical dilemmas depend on methods, that is, ways of formulating, interpreting, and solving problems. The power of a profession derives from its being able to identify “real” problems and provide appropriate solutions. The teaching of sta-

tistical methods, participant observation, qualitative and quantitative approaches to data acquisition and presentation was aimed at reinforcing the idea that no good science (in the ethical sense of good) can be obtained without careful attention to method. In addition, the multi-leveled and complex nature of scientific/ethical problems was underscored by stressing different approaches to problems.

- *Perspectivism.* Not to be confused with moral relativism, the presentation of different perspectives is essential in creating an adequate environment for democratic and fact-producing dialogue. This included an openness to all facts related to a problem or to decision-making, illustrating a “culture of dialogue” that is of the essence of bioethical practice in committees and commissions. Deliberation was pursued in an attempt to generate conclusions “*sine ira et studio*” but well grounded on argument.
- *Open-mindedness.* This ideal of interaction was sought after by encouraging manifestation of personal preferences and emotion-laden material related to case analyses. Success was measured by requesting a personal evaluation from trainees after the completion of the face-to-face period.
- *Cultural sensitiveness.* The interdisciplinary nature of our effort was accompanied by the effort to underscore what is meant by a truly transcultural approach. Contact with anthropological thinking was provided by professional anthropologists who illustrated their methods and data with examples drawn from the cultural and the health fields. Their methods and approaches were considered valuable by trainees and helped to create awareness of the multiethnic and multicultural character of Latin American societies. The relevance of this knowledge for a culturally fair bioethics was stressed all along.
- *Attitudinal change.* Although an ambitious goal not always easy to attain, it was expected that after the training period, attitudes toward problems, ethical dilemmas, and current or possible solutions could undergo changes. Again, this was reflected in self evaluations made by trainees and faculty and was

the subject matter of testimonies collected after the experience was finished.

- *Improvement of communication skills.* Trainees were exposed to a variety of approaches for improving written and oral communication, and special training sessions were devoted to the design and development of websites, listserv lists, slide presentations, oral reports and written materials. This was essential given the different training experiences of participants and the need to represent ideas and attitudes to wider audiences. This portion of the training experience also served to highlight moral problems associated with scientific communication and thus introduce participants to a crucial aspect of research integrity.
- *Tolerance and the ability to listen.* Although implicit, the notion that a crucial competence necessary for a successful implementation of bioethical discourse is tolerance and the capacity to listen to discrepant or adversary views was reinforced throughout the training period and was continued in the aftermath of the face-to-face experience, when networking activities at the home institution were supported and followed.

When the training period was completed, participants were requested to write down formal and publishable papers and to prepare an activity in their home country or at their institution of origin, to which a faculty member was invited. Thus, continuity of effort was assured and support from the home institution assessed.

### **Evaluation of program and outcomes**

A complete assessment of impact may require an extended time to complete and should probably consider aspects well beyond immediate effects on research ethics. Multiplying effects of the experience through the work and effort of participants probably need years to show manifest outcomes in research practice, policymaking, and committee work. These could be more qualitative than quantifiable in terms of publications, policies, or other deliverables.

The effects of the program can be evaluated at the individual, the institutional, and the national levels.

Faculty members served as tutors and provided advice and support to trainees throughout the training period and afterwards. Evaluation consisted in written reports and feedback to participants on their degree of commitment, collaboration with the long-term goals of the program, and written productions.

Individuals participating in the program provided feedback on their perceptions and accomplishments at the end of each term and their opinions proved valuable for reformulating aims and methods. Their publications attest to a wide range of interests and issues. The evaluations made by faculty members of participation, interest, and attitude change indicate that most of the goals of the program, at the individual level, were achieved in about half the members of the teaching experience. The program itself was modified in accordance with suggestions and ideas provided by participants.

At the institutional level, the effects can be summarized in the development and implementation of training programs, ethics committees, and structure modifications. They are indicated in the appendices. An expected outcome would certainly be an improvement in the quality of research from an ethical point of view. This, however, is difficult to assess with the information available.

At the national level the effects are more difficult to estimate. They depend in part on the personal influence each trainee may have in his/her local environment and in the recognition of the importance of research ethics by officials and public.

### **Lessons learned – the future of ethics training within the research enterprise in Latin America**

As important as written materials, in and by itself a good demonstration of success and impact is the fact that both faculty and former trainees established an enduring collaboration which re-

sulted in network programs, continued support, and evaluation meetings, the last of which was held in September 2011 in Lima, Peru.

One important lesson learned from the experience was that the program did make a difference in the careers and outlook of participants. This not always found expression in their daily routines, for most of them continued performing duties and having responsibilities very similar to those previous to the learning experience. Many of them were able to install and develop ethical review committees and improve ethical oversight in their environments. In evaluation meetings, however, reports of difficulties associated with their contribution were common. This fact does not diminish the importance of this type of training but underscores the fact that the incorporation of competent human capital to the institutions depends on appropriate conditions in the countries of origin. The process of accepting bioethical practices and modes of thinking takes time. We are working in an environment of “trial and success” and “trial and error” periods. Measured by the structuring of functioning processes at trainees’ home institutions or the development of regulations and activities in their countries, the program has shown different degrees of success. Individual factors and institutional variables account for different outcomes. Important has been to maintain contact and develop networking activities that reinforce the sense of leadership derived from the successful completion of the training experience. In some quarters, the support by a US institution was considered negative and criticism was voiced, suggesting that the program was a way of imposing a politically laden view of the research enterprise. Needless to say, such criticism is not worth of consideration but exists. The plain fact that the program was conceived and carried out by a Latin American institution with a representation of all views should suffice as counterargument.

There are fundamental issues uncovered by this ten-year experience with ethics of psychosocial and biomedical research in Latin America. One is the very notion of research. Standards of scholarship and university training are not uniform

throughout the continent. This affects the way in which ethics is considered. Sometimes we had the impression that to insist on the ethical oversight of scientific practices was misguided, considering that the idea of what research really is was fuzzy or nonexistent in some contexts. In point of fact, research was confused with other activities, such as surveillance or industry-guided clinical trials; social science research projects were not considered in need of ethical evaluation due to their presumed low risk. These misunderstandings may need some time to disappear and require an in-depth-analysis of cultural practices. An exploration of what research really is in different cultural settings constitutes an interesting field of enquiry. Some aspects of this cultural difference in conceptualization and of the difficulties in devising appropriate methods to tackle with ethical issues were addressed by the Program on Bioethics of the Pan American Health Organization (PAHO), a collaborative effort of the Chilean Government, the University of Chile through CIEB, and PAHO, which was operative from 1994 through 2010(3,4). The history and development of science funding in Latin America is a much needed enterprise and should be pursued alongside training in ethics and integrity.

Faculty members were drawn from different institutions and academic environments. It can be said that the experience was also valuable for them. Despite the fact that interactions were not always easy and that professional expertise sometimes made it difficult to interact with other members of the team and with trainees, everybody benefited from the effort in ways sometimes unexpected. The interfaces with juridical systems, knowledge of funding procedures for research, disclosure of sometimes hidden or unknown prejudices were results from the experience of interacting with other professionals or members of specific groups. Frontier researchers still mistrust ethical oversight and this may be due to a faulty implementation of it, lack of adequate development of ethics committees or vested interests. The effort is worthwhile, the project has been rewarding to carry on, and the need is still growing.

### **A network for the advancement of a biocentric ethics**

The experience gathered throughout the years has demonstrated that an ethical approach to science and technology, in the current state of development of disciplines, by necessity must incorporate specialized knowledge, be based on deliberation and dialogue, and depend on an organic and cohesive community. This community includes researchers, policymakers, politicians, administrators, students, and lay people. Since research is a cultural process shaped by expectations, hopes, and practices, it cannot be examined isolated from other aspects of social life. In point of fact, ethical oversight of research cannot be treated independently from the “ethical level” of the community at large. Political and administrative corruption, if present in a country and accepted as normal, cannot be irrelevant for the establishment of sound scientific practices. The notion of *ethical sustainability* suggests that any change in attitudes, goals, and practices must be based on sound argument and endure over time.

A sustainable effort depends critically on the establishment and maintenance of communities: Epistemic communities (or cultures), Practice communities and Moral communities. These communities not necessarily overlap, although it might be expected that the moral one embraces the others and includes knowledge and its applications. A biocentric ethics is not simply another form of applied ethics. It represents a change in the paradigmatic construction of the moral universe. Not only does it go beyond the classical anthropocentrism in the formulation of moral imperatives. It is knowledge on how to produce, expand, and apply knowledge. It is also an indication that the very foundation of welfare and progress includes a joint consideration of goals and means. Goals formulated as culture and civilization. Means legitimated by discursive practices respecting persons, living beings, and environment, accepting diversity and agreeing on basic principles of communality. In order to achieve this long-term goal, adapted to the historical peculiarities of a world region, our contribution depends on dialogue and common discourses. Re-



search ethics is just a part of culture, and culture is life in common. The establishment of a network of users of the bioethical discourse has been an important mission of CIEB and will continue to be in the future. Thanks are to be expressed to

the institutions that make it possible (especially the University of Chile) and to the funders (NIH-Fogarty, the Alexander von Humboldt Foundation, among others).

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## APPENDICES

### CIEB PROGRAM NIH-FOGARTY Grant R25TW006056

Table 1: CIEB Fogarty Trainees 2003-2011

<i>Countries</i>	<i>Professions</i>	<i>Characteristics</i>	<i>Contributions</i>
Mexico – 8	Medicine – 18	Number: 50	Program Research Projects: 50
Chile – 7	Dentist – 8	Masculine: 16	Additional Research Projects: 14
Colombia – 7	Lawyer – 4	Feminine: 34	
Argentina – 6	Pharmacy – 3		Publications
Peru – 5	Chemistry – 3		- Articles: 54
Nicaragua – 3	Nurse – 2		- Books, chapters: 52
Ecuador – 3	Sociology – 2		- Web: 23
Bolivia – 2	Philosophy – 2		- Online Virtual Modules: 6
Honduras – 2	Microbiology – 2		- Web Bulletins: 3
El Salvador – 1	Obstetrician – 1		- Web Sites: 3
Brazil – 1	Biology – 1		
Uruguay – 1	Veterinary – 1		Health Research Policies and Regulations: 26
Dominican Republic – 1	International Relations – 1		Country ethics of research workshop
Guatemala – 1	Epidemiology - 1		interventions: 22
Spain - 1	Psychology - 1		Development of Training programs in ethics
			of research: 20
			Creation of new Scientific Ethical Review
			Committees: 9
			Participation in Scientific Ethical Review
			Committees: 28
			Participation in National Bioethics
			Commissions: 6
			Honors: 7
			Presentations at Conferences: 104

Table 2: Long-Term Trainees Interdisciplinary Center for Studies on Bioethics, University of Chile Fogarty Project who completed 1 year training on ethics of biomedical and psychosocial research (including coursework, research and practice, diploma degree conferred).

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Luis Moreno	Peru	BS Chemist	2003 - 2004	Ethical Analysis of Bioavailability and Bioequivalence Studies of Pharmaceutical Products Contain in Latin America Legislations	National Institute of Health (Quality Control). Pharmacy Dept. Major University San Marcos, Lima, Peru
Agustin Estevez	Argentina	BA Philosophy	2003 - 2004	The Role of Lay Civilians in Scientific Ethical Review Committees, Guidelines for the Development of Scientific Ethical Review Committees	South National University, Argentina
Lautaro Fernandez	Chile	BS Obstetrics	2003 - 2004	Degree of legibility of Informed Consent Protocols for Research Involving Human Beings Approved by Scientific Ethical Review Committees at Health Services in Chile	South Metropolitan Health Service, Santiago, Chile
Cesar Lara	Mexico	BA Law	2003 - 2004	Legal Aspects for Ethical Review of Research Protocols	Ministry of Health, Mexico
Katya Rodriguez	Ecuador	M.D	2003 - 2004	Ethics of Placebo of Biomedical Research Performed at Chile	Catholic University, Quito, Ecuador

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Monica Hernandez	Chile	BS Nursing	2003 - 2004	Role of Subjects in Biomedical Research	Center for Vaccine Development, Santiago, Chile
Alexandre Bora	Spain	Ph.D.	2003 - 2004	Biological Samples Ownership	Institute Tecnnoetica, Barcelona, Spain
Adrana Hevia	Chile	BA Sociology	2003 - 2004	AIDS Patients Motivations as Participants in Research	University of Santiago, Chile
Ana Laura Buendia	Mexico	D.D.S.	2004-2005	Analysis of how ethics is taught at dental schools in U.S.A.	University of Southern California, School of Dentistry
Pedro Jimenez	Mexico	Ph.D. Chemistry	2004-2005	How the informed consent of patients is affected by the use of biological samples for research after diagnosis in clinical labs at Santiago, Chile and in Santo Domingo	Social Security Mexican Institute, Mexico
Jorge A. Alvarez	Mexico	M.D.	2004-2005	Types of Anxiety in couples who participate in assisted reproduction proceedings for the issue of donating their embryos for research in the clinical hospital of the University of Chile and in Lima, Peru	Social Security Mexican Institute, Mexico

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Gabriel J. Montoya	Colombia	M.D. Psychiatry	2004-2005	Limits in the confidentiality of patient's sexual orientation assigned by psychiatrists	University of Antioquia, Medellin, Colombia
Maria A. Torres	Chile	D.D.S.	2004-2005	Oral Health Research Bioethics	Faculty of Dentistry University of Chile
Carmen A. Cardozo	Colombia	D.D.S.	2005-2006	The principle of the three R's expressing values and virtues. Strategy for quality and competitiveness in research involving experimental animals at Colombia and Chile	Biotechnology Institute and Dept. of Basic Sciences National University of Colombia
Melba de la Cruz Barrantes	Nicaragua	M.D.	2005-2006	Main ethical dilemmas for family and medical personnel in treatment decision making for acute symptoms in severe Alzheimer patients	Drugs Dept. Center for Medical Information, Regulation Dept. Ministry of Health, Nicaragua
Liliana Mondragon	Mexico	Ph.D. Psychology	2005-2006	Ethics of psychology: bioethical dilemmas for therapeutic approaching towards suicidal attempts	Epidemiology and Psychosocial Dept. National Institute of Psychiatry Ramon de la Fuente Muñiz, Mexico
Melvy Ormaeche	Peru	BS Nursing	2005-2006	Informed consent for research on indigenous populations	Epidemiology Dept. Ministry of Health, Lima, Peru
Margot Vidal	Peru	M.D. Epidemiology	2005-2006	Importance of social and family support for treatment adherence in HIV/AIDS patients	Cayetano Heredia Peruvian University, Lima, Peru

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Blanca Borquez	Chile	BA Law	2005-2006	Informed consent in adolescents	EJE Salud LTDA Library Chilean Congress
Elizabeth Mercado	Nicaragua	M.D.	2006 - 2007	Euthanasia and extreme measures in patients with bad prognosis and health priorities	National Institute for Medical Sciences & Nutrition, Nicaragua. Hospital Dr. Roberto Calderon
Saul Diaz	El Salvador	M.D.	2006 - 2007	Retrospective study on the impact of bioethics in the thesis of medical students at the university of Chile	Research Center Dept. of medicine University of El Salvador
Doris E. Ospina	Colombia	Ph.D. Psychology	2006 - 2007	Keeping company to patients with bipolar disorder: Contributions by Psycho Education	Nursery School University of Antioquia, Colombia
Alma E. Rendon	Mexico	BS International Relations	2006 - 2007	Patents in biotechnology for health: Perception and tendencies at Latin America	Ministry of Health, Mexico
Armando Ulloa Gonzalez	Nicaragua	M.D.	2007-2008	Informed Consent in Hospitals at Managua, Nicaragua	National Autonomous University, Nicaragua
Catalina Beltran Sarmiento	Colombia	M.D.	2007-2008	Ethical implications of the destiny of human embryos leftover by in vitro fertilization from a legal and economical context	National University of Colombia MSD Pharmaceutical

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Elizabeth C. Zwareva	Bolivia	BS Nursing	2007-2008	Bioethics incorporation in the curricula of the Bolivian Catholic University	Catholic University, Bolivia
Carmen R. Garcia Rupaya	Peru	D.D.S.	2007-2008	Construction, validation and application of an instrument to measure dentistry students attitudes towards bioethics	Cayetano Heredia Peruvian University, Lima, Peru
Gilberto Gamboa Bernal	Colombia	M.D.	2007-2008	Quality of Life in Clinical Practice	University La Sabana, Colombia
Carlos Briones Reyes	Chile	BS Veterinary	2008-2009	Description of ethical thinking of organizations that work with pets in Santiago, Chile, with respect to their moral status and euthanasia control measures	Veterinary Clinic Nueva Renca, Santiago, Chile University of Chile
Maria Rita Carvalho Garbinovaes	Brazil	Ph.D. Pharmacy	2008-2009	Brazilian diagnosis of ethical and bioethical issues insertion into the curricula of medicine	Health Secretary Federal District, FEPECS/SES-DF, Brasilia, Brazil
Juan Jose Orellana Arauco	Bolivia	D.D.S.	2008-2009	Informed consent procedures in dentistry practice at Private Technical University Cosmos (UNITEPC), Cochabamba	Central University, Private Technical Cosmos University, Cochabamba, Bolivia
Carlos Walter Sanabria Ortega	Paraguay	BA Philosophy	2008-2009	Background, justification and norms for the creation of a National Scientific Ethics Board at Paraguay	National University of Asuncion, Paraguay

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Hugo Rodriguez Almada	Uruguay	M.D.	2008-2009	Informed Consent in research in Uruguayan legal context	University La Republica, Uruguay
Vilma E. Espinoza	Honduras	MS Microbiology and Clinical Chemistry	2008-2009	Diagnosis of ethics of research at Honduras: Norms and functioning of scientific ethical review committees	National Autonomous University, Honduras
Pablo A. Melonari	Argentina	M.D.	2008-2009	Diagnosis of Bioethical concerns in Clinical Practice Hospital Notti (Mendoza, Argentina)	National University of Cuyo Pediatric Hospital Notti, Mendoza, Argentina
Hilda Valencia Marroquin de Abril	Guatemala	D.D.S.	2009-2010	Level of ethics of research competence of research projects, Research Division, University San Carlos, Guatemala	University San Carlos Guatemala
Lilian Patricia Moncayo Yerovi	Ecuador	D.D.S.	2009-2010	Diagnosis of human subjects protection in norms and regulations at Ecuador	Ministry of Health Ecuador
Elsa Diaz Santana	Dominican Republic	BS Pharmacy MS Bioethics	2009-2010	Ethical basis for fulfilling Hospital Pharmaceutical Basic Norms at Hospital Doctor Dario Contreras, Pharmacy Service, Santo Domingo, Dominican Republic	Hospital Doctor Dario Contreras, Santo Domingo, Dominican Republic
Aida Rozxana Merlo Romero	Honduras	M.D.	2009-2010	Diagnosis of research ethics at National Autonomous University, Valle Sula, Honduras	National Autonomous University Valle de Sula, Honduras



<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Liliana Edith Caballero	Argentina	M.D.	2009-2010	Monitoring of clinical trials for drug approval during trial execution	Kennedy University, Buenos Aires, Argentina
Veronica Nieto Canessa	Uruguay	M.D.	2010-2011	Norms related to care for handicaps. A bioethical reflection	University La Republica, Uruguay
Julieta Ivone Castro	Mexico	M.D. PhD Biomedical Sciences	2010-2011	Bioethical analysis of elderly health care	National Institute of Public Health, Mexico
Carmen Isolina Ayala Jara	Peru	M.D. PhD Pharmacy Chemistry	2010-2011	Ethical analysis of research thesis involving human beings at National University of Trujillo	National University of Trujillo, Peru
Sandra Pavon	Argentina	M.D.	2010-2011	Influence in society of sleep alterations. Bioethical reflection	Hospital Diego Paroissen, Argentina
Martha Lucia Rodriguez Paz	Colombia	D.D.S.	2010-2011	Analysis of bioethics knowledge by students at Health Dept., University El Valle, Cali, Colombia	University El Valle, Cali, Colombia
Olga del Carmen Maldonado	Colombia	MA Philosoph, Sociology MS Bioethics	2011-2012	Perception of the importance of bioethics for public policies management oriented to prevention of child abuse in Bogota, Colombia	Javeriana University, Bogota, Colombia
Yuri Jesus Marimon Diaz	Ecuador	M.D.	2011-2012	Public policies as mechanism for the protection of HIV/AIDS patients research subjects in Ecuador	Ministry of Health, Ecuador

<i>Name</i>	<i>Country of Origin</i>	<i>Degree</i>	<i>Period of Training</i>	<i>Research project during training</i>	<i>Institution</i>
Miriam Magdalena Sanders Brulletti	Argentina	BA Law	2011-2012	Level of knowledge about ethics of research guidelines of law students in a private university, Buenos Aires, Argentina	University of Flores, Buenos Aires, Argentina
Maria Hilda Garcia Perez	Mexico	Ph.D Epidemiology	2011-2012	Public policies, health care satisfaction and indigenous autonomy: The case of Opportunity Program, Mexican-US Border	Arizona State University
Matalia Paola Cosmai	Argentina	M.D.	2011-2012	Perception of informed consent process by physicians participating in research studies	University of Buenos Aires, Argentina

## APPENDIX I

## Publications of trainees

*Articles in peer reviewed scientific journals*

1. Aguilera RM, Mondragon LB, Medina Mora ME. Consideraciones eticas en intervenciones comunitarias: la pertinencia del consentimiento informado. *Revista de Salud Mental* 2008; 31(2): 129-138.
2. Alfaro Carballido D, Garcia CR. Percepcion del proceso de consentimiento informado en pacientes de la Clinica Estomatologica Central de la Universidad Peruana Cayetano Heredia. *Revista Estomatologica Herediana* 2011; 21(1): 5-12.
3. Alvarez JA. El estatus del embrion humano desde el gradualismo. *Gaceta Medica de Mexico* 2007; 143(3): 267-277.
4. Alvarez JA. Historia contemporanea: las tecnicas complejas de reproduccion asistida. *Ginecologia y Obstetricia de Mexico* 2007; 75(3): 293-302.
5. Alvarez JA. Historia contemporanea: las tecnicas complejas de reproduccion asistida. *Ginecologia y Obstetricia de Mexico* 2007; 75(3): 293-302.
6. Alvarez JA. La objecion de conciencia: el marco mexicano. *Anales Facultad de Medicina Lima* 2007; 68(1): 80-86.
7. Alvarez JA. Mecanismo de la fecundacion humana. *Ginecologia y Obstetricia (Peru)* 2007; 53(1): 45-52.
8. Alvarez JA. Politicas publicas e investigacion en embriones humanos. *Revista Facultad de Medicina UNAM* 2005; 48(6): 242-247.
9. Alvarez JA. Sexualidad en parejas con problemas de fertilidad. *Gaceta Medica de Mexico* 2007; 143(1): 65-71.
10. Alvarez JA. Tipos de ansiedad de las parejas tratadas con fertilizacion asistida frente a la donacion hipotetica de embriones en el Hospital Clinico de la Universidad de Chile. *Ginecologia y Obstetricia de Mexico* 2005; 73: 163-172.
11. Alvarez JA. Tipos de ansiedad de parejas tratadas con fecundacion asistida frente a la donacion hipotetica de embriones para investigacion en una clinica privada en Lima, Peru. *Gaceta Medica de Mexico* 2006; 142(3): 223-228.
12. Alvarez JA. Tipos de ansiedad frente a la donacion hipotetica de embriones para investigacion. Una aproximacion desde la perspectiva de genero. *Salud Mental* 2006; 29(5): 59-65.
13. Alvarez, JA. Comentarios sobre causales de despenalizacion entre estudiantes de pregrado de la facultad de medicina de la Universidad Autonoma de Ciudad Juarez (UACJ) ante la interrupcion voluntaria del embarazo (IVE). *Revista de Investigacion Clinica* 2007; 59(5): 348-355.
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15. Barrantes M, Mercado E. Aborto terapeutico en Nicaragua; el dialogo como parte de la solucion del conflicto. *Acta Bioethica* 2008; 14(1): 106-110.
16. Barrantes M, Rodriguez E, Lama A. Relacion medico paciente: derechos del adulto mayor. *Acta Bioethica* 2009; 15(2): 216-221. NIHMS#160001.
17. Barrantes M. Genero, vejez y salud. *Acta Bioethica* 2006; 12(2): 193-197.
18. Borquez B. Consideraciones legales en la atencion del anciano. El consentimiento informado. *Medwave* October 2007; VII (9) electronic publication. Available at <http://www.mednet.cl/link.cgi/Medwave/Enfermeria/Enfgeriatrica/8/2746>
19. Bota A. Animales transgenicos como organismos artificiales. *Acta Bioethica* 2007; 13(1): 61-71.
20. Bota A. Contribucion de las normas CIOMS 2002 al desarrollo biotecnologico. La corresponsabilizacion del cientifico. *Biological Research* 2003; 36: 148-154.

21. Bota A. El impacto de la biotecnología en América Latina. Espacios de participación social. *Acta Bioethica* 2003; 9(1): 21-38.
22. Bota A. El reto de la muestra biológica en los estudios farmacogenéticos. *Acta Bioethica* 2004; 10(2): 201-212.
23. Buendía AL, Álvarez de la Cadena-Sandoval C. Nivel de conocimiento de la bioética en dos universidades de odontología de América Latina. *Acta Bioethica* 2006; 12(1): 41-48.
24. Caceda-Gabanchó K, García CR. Aplicación de consideraciones bioéticas en investigación científica en estomatología en pre y posgrado de la Universidad Peruana Cayetano Heredia en los últimos 10 años. *Revista Estomatológica Herediana* 2011; 21(2): 73-78.
25. Cardozo CA. Hacia la definición de una política nacional de uso y cuidado de animales. *Suma Psicológica* 2010 Bogotá; 17(1): 85-95.
26. Díaz E. Conocimiento de la Ley General de Salud respecto de las transfusiones sanguíneas en médicos y pacientes Testigos de Jehová del Hospital Dr. Darío Contreras de República Dominicana. *Acta Bioethica* 2010; 16(1): 46-50. NIHMS# 222375.
27. Estevez A. La cuestión del lego en ética de la investigación. *Revista Agora Philosophica* 2006; 7(13): 45-66.
28. Estevez A. Principios de bioética e investigación. *Ars Medica* 2004; 9: 215-224.
29. Gamboa GA. Ecología humana y Ecología ambiental: binomio clave. *Persona y Bioética* 2011; 15(1): 5-10.
30. Gamboa GA. La clave de la bioética: la persona humana, su ser y su sentido. *Revista de Bioética Latinoamericana* 2009; 2(1) <http://www.saber.ula.ve/handle/123456789/26251>
31. Gamboa GA. Relación hombre y medio ambiente: un reto para la Bioética. *Revista Colombiana de Bioética* 2008; 3(1): 195-218.
32. Garbi-Novaes MR, Guilhem D, Lolas F. Ethical Conduct in Research Involving Human Beings In Brazil. Diagnosis of Research Ethics Committee. *Arquivos de Medicina* 2010; 23(4): 145-150. NIHMS222240.
33. Garbi-Novaes MRC, Garcez-Novaes LC, Guilhem D, Lolas F, Costa-Siveira CC, Vilar-Trindade EM, Shoití-Komatsuri R, Guiottir MG. Ethical Attitudes of Brazilian Medical Students and Graduates with Active Methodologies. *Revista Brasileira de Educação Médica* 2010; 34(1): 43-56. NIHMS# 221987.
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35. Garbi-Novaes MRC, Guilhem D, Lolas F. Relato de 10 años de experiencia en comités de ética de investigación de la Secretaría de Salud del Distrito Federal del Brasil. *Acta Bioethica* 2008; 14(2): 185-192. NIHMS# 116000.
36. García CR. Inclusión de la ética y la bioética en la formación de pre y posgrado del cirujano-dentista en Perú. *Acta Bioethica* 2008; 14(1): 74-78. NIHMS#115992.
37. Mondragón LB, Caballero MA. Del sujeto que ha intentado suicidarse y el Otro: la Institución Psiquiátrica. *Observaciones Filosóficas* 2008; 7. Artículo electrónico. <http://www.observacionesfilosoficas.net/delsujetoquehaintentadosuicidarseBlueOneDVDripdarse.htm> NIHMS# 98207.
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44. Montoya G. Bioetica y terapia electroconvulsiva. *Revista de Psiquiatria Clinica* 2005; 42(2): 18-25.
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47. Ospina DE, Ivanovic F, Lolas F. Trastorno bipolar desde la perspectiva de los familiares. *Trastornos del Animo* 2009; 5(1): 28-36. NIHMS# 154145.
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1. Acuña-Johnson AP, Garbi-Novaes MRC. Formacion etica del farmaceutico. En: Garbi Novaes MR, Lolas F, Quezada A. *Etica y Farmacia. Una perspectiva latinoamericana*. Monografia de Acta Bioethica N° 2. Santiago de Chile: CIEB Universidad de Chile, Programa de Bioetica OPS/OMS; 2009: 333-359.
2. Alvarez J, Cardozo CA. Etica de la investigacion biomedical que usa y cuida animales experimentales. En: Lolas F, Quezada A, Rodriguez E. (editores) *Investigacion en Salud. Dimension Etica*. Santiago de Chile: Santiago de Chile: CIEB Universidad de Chile; 2006: 239-248.
3. Alvarez J, Lolas F, Outomuro D. Historia de la etica en investigacion con seres humanos. En: Lolas F, Quezada A, Rodriguez E. (editores) *Investigacion en Salud. Dimension Etica*. Santiago de Chile: CIEB Universidad de Chile; 2006: 39-46.
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5. Barrantes M, Montoya G. Confidencialidad en salud e investigacion. En: Lolas F, Quezada A, Rodriguez E. (editores) *Investigacion en Salud. Dimension Etica*. Santiago de Chile: CIEB Universidad de Chile; 2006: 217-229.

6. Barrantes M. Plasmaferesis: la sangre como mercancía. Book Chapter. *Diccionario Latinoamericano de Bioética*. Bogotá: UNESCO; 2008.
7. Bermudez de Caicedo C, Buendía AL, Deangelillo CA, Guerra AR. Los programas de formación ética en odontología. En: Cardozo C, Rodríguez E, Lolas F, Quezada A. (editores) *Ética y Odontología. Una Introducción*. Santiago de Chile: CIEB Universidad de Chile; 2007: 117-127.
8. Borquez B, Ciocca L, Lolas F, Romo F, Torres MA. Ética, bioética, ley: conceptos básicos. En: Cardozo C, Rodríguez E, Lolas F, Quezada A. (editores) *Ética y Odontología. Una Introducción*. Santiago de Chile: CIEB Universidad de Chile; 2007: 19-30.
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16. Cardozo CA. El diálogo y la comunicación: una tarea urgente del cuerpo odontológico para el ejercicio colectivo. En: Cardozo C, Rodríguez E, Lolas F, Quezada A. (editores) *Ética y Odontología. Una Introducción*. Santiago de Chile: CIEB Universidad de Chile; 2007: 75-77.
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- CIEB Universidad de Chile, Programa de Bioetica OPS/OMS; 2010: 179-188.
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  25. Garbi-Novaes MRC, Lolas F, Quezada A. (organizadores) *Etica e Farmacia. Uma abordagem latinoamericana em saude*. Brasilia: Thesaurus Editores; 2009.
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### **Workshops and interventions (developed by trainees and supported by CIEB Fogarty Program)**

1. Workshop: *Bioethics for staff Social Security Institute*, Montevideo, Uruguay, October 2010 (trainee Nieto V., advisor: L. Rueda).
2. Workshop: *Current ethical topics Health Research*, University El Valle, Cali, Colombia, November 23-25, 2009 (trainee Rodriguez ML., advisor: E. Rodriguez, K. Lagos).
3. Workshop: *Ethical issues in genetic research University La Republica*, Montevideo, Uruguay, June 2010 (trainee: Rodriguez H., advisor: E. Rodriguez).
4. Workshop: *Ethics in Reproductive Health*, National University of Colombia, October 2011 (trainees: Maldonado O., Cardozo CA.; advisor : K. Lagos).
5. Workshop: *Ethics in scientific research for scientific ethical review committee National University of Trujillo*, Peru September, 2011 (trainee: Ayala C., advisor: E. Rodriguez).
6. Workshop: *Ethics of Research and Health Care for the Elderly*, Fundacion Santa Fe, Bogota, Colombia, October 2010 (trainee Cardozo CA., advisor: F. Lolas).
7. Workshop: *Ethics of research capacitating scientific ethical review committees*, Hospital Dario Contreras, CONYCIT Dominican Republic, Santo Domingo, April, 2010 (trainee Diaz E., advisor: E. Rodriguez).
8. Workshop: *Ethics of Research for Scientific Ethical Review Committees Faculty of Medicine University of Antioquia*, Medellin, Colombia, June 2011 (trainees: Montoya G., Ospina D., advisor: E. Rodriguez).
9. Workshop: *Ethics of research with human subjects address to pediatricians involved in research Hospital Notti*, Mendoza, Argentina, in collaboration with National University of Cuyo, June 2010 (trainees: Melonari PA. & Pavon S., advisor: E. Rodriguez).
10. Workshop: *Human Rights, Bioethics and Handicaps. Social Security Institute*, Montevideo, Uruguay, November 2010 (trainee: Nieto V., advisor: L. Rueda).
11. Workshop: *Human subjects research protection and responsible research conduct*, Tegucigalpa, Honduras, 24-25 June, 2010 (trainee Merlo AR., advisor: F. Lolas).
12. Workshop: *Informed consent and scientific ethical review committees*, Hospital Simon Bolivar, Bogota, Colombia, October 2009 (trainee: Gamboa G., advisor: E. Rodriguez).
13. Workshop: *Organization and implementation of ethics of research for the formation of scientific ethical review members in order to establish a scientific ethical review committee at Trujillo National University*, Trujillo, Peru, October 2010 (trainee: Ayala CL., advisor: E. Rodriguez, K. Lagos). Agreement for cooperation on research ethics between Trujillo National University, Trujillo, Peru, and Interdisciplinary Center for Studies on Bioethics, University of Chile, 2010-2011.
14. Workshop: *Protection of Research Human Subjects according to Norms and Regulations at Quito and Guayaquil*, Ecuador, October 12-15, 2009 (trainee Moncayo LP, advisor: E. Rodriguez).

15. Workshop: *Scientific and Hospital Ethical Review Committees, Health Research Regulations, Professional ethics codes*, Ministry of Health, National University San Carlos, OPS Guatemala, April, 2010. (trainee Valencia HA., advisor: E. Rodriguez, K. Lagos).
  16. Workshop: *Seminar ethics of research and scientific ethical review committees*, Pontifical Catholic University, Quito Ecuador, October 2005 (trainee: Rodriguez K., advisor: R. Mancini).
  17. Workshop: *Seminar Ethics of Research Regulations & Scientific Integrity in Latin America for former trainees*, September 2011, National Institute of Health, Lima, Peru: Evaluation Meeting of the CIEB Fogarty Program.
  18. Workshop: *Seminar Ethics of Social Research*, School of Transborder Studies, Arizona State University, November 2011 (trainee: Garcia-Perez MH.).
  19. Workshop: *Ethics of research, Health Care Services*, Ministry of Health, April 2012 (trainee Mari-mon-Diaz Y.).
  20. Workshop: *How to present a project to the scientific ethical review committee*, for researchers Dentistry Department University of Chile, April 2012 (trainee: Torres, M.A., advisor: E. Rodriguez).
- Trainees:
    - Ayala-Jara Carmen I.: *Progress ethics of research at National University of Trujillo*, Peru.
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    - Gamboa-Bernal, Gilberto A.: *Ethics of research regulations at Colombia*.
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    - Lara-Alvarez, Cesar F.: *Ethics of Biomedical and Psychosocial Research*.
    - Lara-Alvarez, Cesar F.: *Scientific Ethics of Research Committees Functioning and Regulation Guidelines*.
    - Moncayo, Lilian P.: *Development process of science and technology, bioethics component, Public Health Ministry*, Ecuador.
    - Mondragon-Barríos, Liliana: *Development ethics of research Program National Institute of Psychiatry Ramon de la Fuente Muñiz*, Mexico.
    - Moreno, L.: *Ethics of research regulations at Peru*.
    - Ormaeche-Macassi, Melvy: *Rights to freedom of determination towards development, participation, consulting and consent in the process of building rights to guarantee indigenous populations health*.
    - Ospina-Muñoz, Doris E.: *Bioethics and Biolaw*.
    - Pavon, Sandra: *Vulnerable populations in mental health*.
    - Rodriguez S., Katya: *Ethics of research development at Ecuador*.
    - Valencia-Marroquin, Hilda E.: *Ethics of research experience at San Carlos University*, Guatemala.
  - Advisors:
    - Lescano, Roxana: *Scientific Ethics of Research Committees Functioning and Regulation Guidelines*.
    - Litewka, Sergio: *Pan American Bioethics Initiative. Collaborating in the development of ethics of research training programs*.
    - Lolas, Fernando: *Ethics of research future developments*.
    - Lolas, Fernando: *Institutionalization scientific research*.
    - Rodriguez, Eduardo: *Ethics of Biomedical and Psicosocial Research Program at CIEB, University of Chile, Developmet 2002-2011, Fogarty Grant*.

21. Workshop: *Ethics of Research and Responsibility*, Buenos Aires, November 2011 (sponsor by University Austral, CIEB and Fogarty International Center, trainees: Cosmai N., Sanders-Bruletti MM., advisor: F. Lolas).
22. Workshop: *First International Meeting on Bioethics and Research for Legislators*, Buenos Aires, Argentina, November 2011 (sponsor by CIEB, University of Flores and Fogarty International Center, trainee: Sanders-Bruletti MM., advisor: E. Rodriguez).

***Training programs on research ethics developed by trainees within the framework of the CIEB Fogarty Grant***

1. Ayala-Jara C.: *Ethics of Research course at National University of Trujillo*, Peru, 2011-.
2. Barrantes-Monge M.: *Ethics of research curricula Medicine Department National Autonomous University Nicaragua*, 2009-2010.
3. Cardozo CA.: *Ethics of research program National University of Colombia*, Bogota, Colombia, 2009-.
4. Cardozo CA.: *Permanent Seminar Ethics of Research National University of Colombia*, Bogota, Colombia, 2007-.
5. Gamboa G.: *Course Good Clinical Practice and Scientific Ethical Review Committees University La Sabana*, Bogota Colombia, 2010-.
6. Gamboa G.: *Modules bioethics Clinical Pharmacology and Medicine Department University La Sabana*, Bogota Colombia, 2009-.
7. Garbi-Novaes MR.: *Courses ethics of research Interdisciplinary Postdegree Program University of Brazilia*, 2009-2010.
8. Garbi-Novaes MR.: *Ethics of research Program Interdisciplinary Postdegree Program University of Brazilia*, 2010-.
9. Garcia-Rupaya C.: *Coordination short course ethics of research for dentistry students at Cayetano Heredia Peruvian University*, Lima Peru 2007-2008.
10. Garcia-Rupaya C.: *Training course ethics of research curricula dentistry Department Cayetano Heredia Peruvian University*, Lima Peru, 2008-.
11. Mercado-Morales E.: *Ethics of research curricula Medicine Department National Autonomous University Nicaragua*, 2009-.
12. Mondragon L.: *Courses and seminars ethics of research National Institute of Psychiatry Ramon de la Fuente Muñiz*, Mexico, 2008-.
13. Mondragon L.: *Development of a seminar for academics on ethics of psychosocial research*, Psychiatric Institute Ramon de la Fuente Muñiz, Mexico, 2010-.
14. Mondragon L.: *Ethics of research program National Institute of Psychiatry Mexico*, 2010-.
15. Nieto V.: *Bioethics curricula for Medicine Department*, University La Republica, Montevideo, Uruguay, 2011-.
16. Ospina D.: *Program BioLaw Research: Law Department University Santo Tomas*, Medellin, Colombia, 2011-.
17. Sanders-Bruletti MM.: *Bioethics Program Law Department University Flores*, Buenos Aires, Argentina, 2011-.
18. Torres-Quintana MA.: *Courses for Bioethics training in Dentistry School*, University of Chile, 2008-.
19. Valencia-Marroquin de Abril H.: *Development curricula ethics of research courses San Carlos University*, Guatemala, 2011-.
20. Vidal-Anzardo M.: *Ethics of research course in Research Program ADIECS San Marcos Mayor National University*, Peru 2011-.

### ***Creation of new scientific ethical review committees by interventions of trainees***

1. Ayala-Jara C.: *Scientific Ethical Review Committee National University of Trujillo*, Peru, 2010-.
2. Diaz S.: *National Bioethics Commission El Salvador*, 2008.
3. Diaz S.: *Scientific Ethical Review Committee University Alberto Masferrer, El Salvador*, 2009.
4. Melonari P.: *Scientific ethics of research Committee Sociedad Argentina Filial Mendoza*, Argentina, 2009.
5. Merlo A.: *Scientific ethical review committee National Autonomous University of Honduras, Valle de Sula*, 2012.
6. Moreno-Exebio L.: *Scientific ethical review committee of Dermatology and Skin Surgery Institute Dr. Huberto Bogaert Diaz*, Santo Domingo, Dominican Republic, 2004.
7. Moreno-Exebio L.: *Scientific ethical review committee of General Plaza Hospital*, Santo Domingo, Dominican Republic, 2004. Available at <http://www.uchile.cl/bioetica/doc/reglamento.pdf>
8. Rodriguez-Sanchez K.: *Scientific Ethical Review Committee Pontifical Catholic University*, Quito, Ecuador, 2005.
9. Torres MA.: *Scientific Ethical Review Committee Dentistry Department University of Chile*, 2008.

### ***Participation of trainees in scientific ethical review committees***

1. Ayala-Jara C.: *President Scientific Ethical Review Committee National University of Trujillo*, Peru, 2010-.
2. Barrantes-Monge M.: *Member Scientific Ethical Review Committee National Autonomous University*, Nicaragua, 2008-.
3. Beltran-Sarmiento C.: *Member Scientific Ethical Review Committee University La Sabana*, Bogota, Colombia, 2009-.
4. Borquez-Polloni B.: *Member Scientific Ethical Review Committee Ministry of Health West Service*, Santiago, Chile, 2007-.
5. Buendia AL.: *Member Scientific Ethical Review Committee School of Dentistry University of Southern California*, 2008-.
6. Cardozo CA.: *Member Scientific Ethical Review Committee National University of Colombia*, 2006-; *Consultant Scientific ethical review committees: University Clinic Valle de Lili, Hospital Federico Lleras Acosta, Hospital Fusagasuga, University Foundation Area Andina, Dermatology Hospital Bogota*, 2008-.
7. Diaz S.: *Member Scientific Ethical Review Committee Public Health Major Council*, El Salvador, 2007-.
8. Diaz-Santana E.: *Member Scientific Ethical Review Committee Infectious Diseases Foundation*, Dominican Republic, 2009-; *Vicepresident Scientific Ethical Review Committee Center for Diagnosis and Advanced Medicine and Telemedicine (CEDIMAT)*, Dominican Republic, 2009-.
9. Estevez A.: *Member Scientific Ethical Review Committee Universidad Nacional del Sur*, Argentina, 2005-.
10. Fernandez-Milla L.: *President Scientific Ethical Review Committee Ministry of Health Servicio Salud Metropolitano Sur*, Santniago, Chile, 2004-2009.
11. Gamboa-Bernal G.: *President Scientific Ethical Review Committee Universidad La Sabana*, Colombia, 2007-.
12. Garbi-Novaes MR.: *Member Scientific Ethical Review Committee Secretaria de la Salud Distrito Federal*, Brazil.
13. Garcia-Rupaya CR.: *Member Scientific Ethical Review Committee Cayetano Heredia Peruvian University*, Lima, Peru, 2008-.
14. Jimenez P.: *Member Scientific Ethical Review Committee Social Security Mexican Institute*, Mexico,



- 2006.
15. Lara-Alvarez C.: *Member scientific ethical review committee National Institute For Genomic Medicine*, Mexico, 2005-2010.
  16. Lara-Alvarez C.: *Member scientific ethical review committee World Human Genome Organization*, 2012-.
  17. Maldonado O.: *Member Scientific ethical review committee Science Department Javeriana University*, 2011-.
  18. Melonari P.: *Member Scientific ethical review committee Sociedad Argentina Filial Mendoza*, Argentina, 2009-.
  19. Mercado-Morales E.: *Member scientific ethical review committee Hospital Escuela Doctor Roberto Calderon Gutierrez*, Nicaragua, 2008-.
  20. Mondragon-Barrios L.: *Member scientific ethical review committee National Autonomous University of Mexico*, 2007; *Member Ethics Board National Institute for Genomic Medicine*, Mexico, 2007-2010.
  21. Montoya-Montoya G.: *Member scientific ethical review committee Medicine Dept. University of Antioquia*, Colombia, 2009-.
  22. Moreno-Exebio L.: *President Scientific Ethical Review Committee National Institute of Health*, Lima, Peru, 2005-2010; *Member Scientific Ethical Review Committee National Major University San Marcos Faculty of Medicine*, Peru, 2007-.
  23. Ospina, D.: *Member scientific ethics of research committee University of Antioquia, Faculty Nursing*, Colombia, 2008-.
  24. Rodriguez-Almada H.: *Member scientific ethical review committee University Republica*, Montevideo, 2010-.
  25. Rodriguez-Paz ML.: *Member scientific ethical review committee University El Valle*, Cali, Colombia, 2010-.
  26. Torres MA.: *Member Scientific Ethical Review Committee Dentistry Department University of Chile*, 2008-.
  27. Ulloa-Gonzalez A.: *Member Scientific Ethical Review Committee National Autonomous University of Nicaragua, School of Medicine*, 2008-.
  28. Vidal-Anzardo M.: *Member Scientific Ethical Review Committee Cayetano Heredia Peruvian University*, Lima, Peru, 2008-.

### ***Participation of trainees in National Bioethics Commissions***

1. Castro JI. *Member National Bioethics Commission*, Mexico, 2010.
2. Diaz S.: *Member National Ethics Commission for Clinical Research*, El Salvador, 2007-.
3. Moncayo-Yerovi L.: *Member National Bioethics Commission*, Ecuador, 2009-.
4. Nieto-Canessa V.: *Member National Bioethics Commission*, Uruguay, 2010-.
5. Rodriguez-Sanchez K.: *Member National Bioethics Committee*, Ecuador, 2004-2006.
6. Valencia-Marroquin de Abril H.: *Member National ethical review committee*, Guatemala, 2009-.

### ***Honors and awards of trainees***

1. Alvarez-Diaz JA.: *Manuel Velasco Suarez Bioethics Award*, 2007; *Member Bioethics National Mexican Academy*, 2008.
2. Barrantes-Monge M.: *Member Medical Auditing Commission for Clinical Trials*, Nicaragua, 2009.
3. Cardozo CA.: *Member Editorial Committee Laboratory Animal Latin American Journal*, 2009.
4. Gamboa-Bernal G.: *Editor Persona y Bioetica*, University La Sabana, Colombia, 2006.

5. Lara-Alvarez C.: *President Ethical Commission National Institute for Genomic Medicine*, Mexico, 2008-2010.
6. Moreno-Exebio L.: *Member National Board for Evaluation of Clinical Essays*, Peru, 2006.
7. Vidal-Anzardo M.: *First Place Good Governmental Practices for Protection of Human Subjects in Experimental Studies*, 2011.

### ***Trainees presentations at Conferences***

1. Alvarez JA. Bioethical debate about the use of human embryos for research. *VII National Bioethics Congress*, Santiago, Chile, October, 2004).
2. Alvarez JA. Opinions about hypothetical embryo donations of patients participating in assisted reproduction technologies at Latin America. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
3. Ayala CI. Health Justice at Peru. *Bioethics congress on ethics in emergency situations*, Santiago, Chile, June 2010.
4. Ayala CI. Peruvian vulnerable populations and ethics of research regulations at Peru. *Trujillo University*, October 2010.
5. Barrantes M. Bioethics and Alzheimer Disease. *Alzheimer Foundation of Nicaragua*, Managua, June 2006.
6. Barrantes M. Bioethics in Nicaragua. *Towards a Subregional Convention on Bioethics and Human Rights*, UNESCO FUNGLODE, Santo Domingo, Dominican Republic, February 2007.
7. Barrantes M. Ethical issues in health care for the elderly. *Bioethics Simposium, National Autonomous University*, Nicaragua, April, 2008.
8. Barrantes M. Ethical issues in subjects with severe Alzheimer. *VI Brazilian Bioethics Congress, I MERCOSUR Bioethics Congress and Forum UNESCO Bioethics Net*, August-September, 2005.
9. Barrantes M. Ethical Issues on Alzheimer Disease. *Inmaculate Conception Laboratory*, Managua, Nicaragua, June 2007.
10. Barrantes M. Quality of life and the elderly under an ethical perspective. *Health Care Professionals Meeting*, University of Chile, Santiago, Chile, October 2005.
11. Borquez B. Adolescence and health care decisions & Bioethics and security for patients. *IV International Congress Army Health and III Nursing*, Loja, Ecuador, April, 2007.
12. Borquez B. Bioethics and security of patients. Law contributions: Management of juridical-health risks. *VI Brazilian Bioethics Congress, I MERCOSUR Bioethics Congress and Forum UNESCO Bioethics Net*, August-September, 2005.
13. Borquez B. Competence versus civil capacity for children in health care decisions. *III Conference Bioethics and Law*, Pontifical Catholic University, Santiago, Chile, May 2007.
14. Borquez B. Legal considerations in health care for the elderly, informed consent. *I International Congress Gerontology and Geriatric Nursing Management of Health Care for the Elderly*, Valparaiso, Chile, November 2006.
15. Bota A, Estevez A, Fernandez L, Hernandez M, Hevia A, Lara C, Moreno L, Rodriguez K. Scientific Ethical Review Committees. A Pending Challenge in Latin American Countries. *VI National Bioethics Congress*, Concepcion, Chile, October 2003.
16. Buendia AL. Bioethics as determinant factor in the practice of oral health care professionals (poster and presentation). *XVI Oral Health Latin American Seminar – S.O.L.A., II National Students Meeting*, Santiago, Chile, August 2004.
17. Buendia AL. Decision-Making in Geriatric and Special Needs Patients. *Special Care Dentistry Symposium*, Baltimore, USA, April, 2008.
18. Buendia AL. Notions of ethics in geriatric and compromised dental patients. *Simposium Geriatric Dentistry*, University of Southern California, USA, September, 2008.

19. Buendia AL. Remedial ethics course – An intervention in Innovations in Medical Education (poster). *University of Southern California*, U.S.A., March, 2008.
20. Buendia AL. Round Table discussion: Education in Bioethics. *I Latin American Meeting on Oral Health Bioethics*, *University of Chile*, November 11-13, 2004.
21. Buendia AL. Tough problems in oral health. *University of Southern California Ethics Symposium*, *University of Southern California*, USA, August 2008.
22. Cardozo CA. Divulgarion program for the use and care of laboratory animals and ethical review committees for research with animals. *Chilean Society of Laboratory Animals Sciences (SOCHICAL)*, *Santiago*, Chile, October 2005.
23. Cardozo CA. Ethics of research with animals. *International Meeting Humanism and Bioethics*, *Fundacion Santa Fe*, *Bogota*, Colombia, October 2010.
24. Cardozo CA. Principles of bioethics in the use of laboratory animals for research and teaching. *Chilean Society of Laboratory Animals Sciences (SOCHICAL) and Society of Veterinarians Specialized in Laboratory Animals Sciences (SOVECAL)*, *Santiago*, Chile, October 2005.
25. Cardozo CA. Respect to all forms of life, the animal as subject of rights. *VI Brazilian Bioethics Congress, I MERCOSUR Bioethics Congress and Forum UNESCO Bioethics Net*, August-September, 2005.
26. Cardozo CA. Towards the conformation of a network for ethical review committees for research with laboratory animals in Latin America. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, *Valparaiso*, Chile, June 2011.
27. Cardozo CA. Towards the definition of a national policy for the use and care of laboratory animals. *I Meeting National Committees for the use and care of laboratory animals*, *University Foundation Konrad Lorenz*, *National University of Colombia*, August, 2010.
28. Castro JI. Public Health Insurance as health policy in Mexico to solve the problem of justice in health access for vulnerable populations. *Bioethics congress Santiago, Chile Ethics in emergency situations*, June 2010.
29. Castro JI. Public Health Insurance in Mexico. *II Congress Science, Technology and Culture. Symposium 32 Health Care Service Inequities at Latin America and Caribbean Countries*, *Santiago*, Chile, October 2010.
30. Cosmai NP. Confidentiality and HIV: ethical dilemmas on information disclose. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, *Valparaiso*, Chile, June 2011.
31. Diaz E. Ethics of research at Dominican Republic. *CONYCIT Dominican Republic*, *Santo Domingo*, April, 2010.
32. Estevez A. Bioethics and Clinical Research. *VI National Bioethics Congress*, *Concepcion*, Chile, October 2003.
33. Estevez A. Human rights and ethics of research. *Conference Universidad Rio Cuarto*, *Cordoba*, Argentina, June 2007.
34. Estevez A. Responsibility of pharmacologic research in health crisis. *Congress Philosophy and Epistemology*, *National South University*, August, 2007.
35. Fernandez L. Informed Consent in Clinical Policies. *VI National Bioethics Congress*, *Concepcion*, Chile, October 2003.
36. Gamboa G. Basic bioethics for professionals. *Conference Cultural Center Adarve*, *Bogota*, Colombia, July, 2008.
37. Gamboa G. Ethics of scientific publication. *Seminar V Anniversary Redalyc*, *Toluca*, Mexico, April, 2008.
38. Gamboa G. Good Clinical Practice and Research. *Seminar Hospital Simon Bolivar*, *Bogota*, Colombia, April, 2008.
39. Gamboa G. Quality of life: actual necessity or shadow of consumerism. *IV International Family Congress*, *University La Sabana*, *Bogota*, Colombia, May, 2008.
40. Garbi-Novaes MR, Guilhem D, Lolas F. Ethical attitudes of students and graduates from Medici-

- ne at Brazil with active methodologies and learning based on problem solving. *VII Latin American and Caribbean Congress on Bioethics*, FELAIBE, Mendoza, June 22, 2009.
41. Garbi-Novaes MR, Guilhem D, Lolas F. Ten years of experience of the scientific ethical review committee of Health Secretary Federal District, Brazil. *VII Latin American and Caribbean Congress on Bioethics*, FELAIBE, Mendoza, June 22, 2009.
  42. Garbi-Novaes MR, Novaes LCG, Guilhem D, Komatsu R, Lolas F. Diagnostic of the humanization, ethics and bioethics insertion into medicine curriculum of Health Sciences School Federal District. Contributions to curriculum management, *46 Brazilian Congress Medical Education*, Salvador, Bahia, Brazil, October 2008.
  43. Garcia CR. Bioethics in dental practice. *Organization III Latin American Symposium on Bioethics in Oral Health*, Cayetano Heredia Peruvian University, Lima, Peru, December, 2007.
  44. Garcia CR. Bioethics knowledge in relation to oral health practice among dentistry students: preliminary results (poster and presentation). *II Venezuelan Congress and II Iberoamerican Congress on Bioethics*, Caracas, Venezuela, August 2008.
  45. Garcia CR. Knowledge in ethics and bioethics of oral health professionals in teaching (presentation and poster). *XXIX International Congress CICAQ*, Buenos Aires, Argentina, November 2008.
  46. Garcia-Perez H. Ethics of research in Mexican-U.S border: current practices and challenges. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
  47. Garcia Perez H: The ethics of research on the U.S. –Mexico border: Current practices and challenges. *Comparative Border Studies School of Transborder Studies*, Arizona State University, March 2012.
  48. Jimenez P. Clinical and Research Informed Consent. *Catholic University Nordestana (UCNE)*, San Francisco de Macoris, Dominican Republic, February 2005.
  49. Jimenez P. Informed consent in biological sampling. *VII National Bioethics Congress*, Santiago, Chile, October, 2004.
  50. Jimenez P. Introduction to Bioethics and Research Involving Human Beings. *INTEC Santo Domingo*, Dominican Republic, February 2005.
  51. Lara CF. Ethical, legal and social aspects in genomic medicine. *National Institute of Genomic Medicine*, Mexico, October 2005.
  52. Lara CF. Genomic Research and Intellectual Property in the XXI century. *International Symposium Humanism and Bioethics*. Andes Medical Association, Bogota, Colombia, April 2010.
  53. Maldonado O. Bioethics and public health: reflection about child abuse. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
  54. Moncayo LP. Ethics of Research in Ecuador. *Ministry of Health*, Quito, Ecuador, October, 2009.
  55. Mondragon L. A genomic medicine for Mexicans: ethical and social implications. *Conference Genomic Medicine, National Institute for Genomic Medicine*, Mexico, March, 2006.
  56. Mondragon L. Bioethics Guide for clinical treatment of patients with suicidal attempt. *XXV Annual Research Meeting National Psychiatric Institute Ramon de la Fuente Muñiz*, Mexico, September 2010.
  57. Mondragon L. Bioethics, psychology and mental health: care of patients with suicidal attempt. *VI Brazilian Bioethics Congress, I MERCOSUR Bioethics Congress and Forum UNESCO Bioethics Net*, August-September, 2005.
  58. Mondragon L. Conditions of actual ethics for beneficence in physician-patient relationship. *XXIII Annual Research Meeting National Psychiatric Institute Ramon de la Fuente Muñiz*, Mexico, September 2008.
  59. Mondragon L. Ethical aspects of suicide among adolescents. *Forum Suicidal Prevention among Adolescents, National Psychiatric Institute Ramon de la Fuente Muñiz*, Mexico, September 2010.
  60. Mondragon L. Ethical challenges in psychosocial research & Main ethical dilemmas in research. *XXI Annual Research Meeting, National Institute of Psychiatry Ramon de la Fuente*, Mexico, October 2006.

61. Mondragon L. Ethics and human rights. *Leadership Training in Mental Health (IMAPACT)*, Mexico, October 2006.
62. Mondragon L. Ethics and social intervention. *Video International Conferences, International Bioethics Net, CAAF and School of Medicine, National Polytechnic Institute*, Mexico, April 2006.
63. Mondragon L. Ethics of psychosocial research: Dilemmas and reflections. *Fifth World Bioethics Congress, International Society for Bioethics (SIBI)*, Gijon, Spain, May 2007.
64. Mondragon L. From Episteme to Ethos in Teaching Science. *Symposium Science Teaching National Autonomous University, Faculty of Psychology*, Mexico, October 2010.
65. Mondragon L. Informed consent: a research task. *XXII Annual Research Meeting National Psychiatric Institute Ramon de la Fuente Muñiz*, Mexico, September 2007.
66. Mondragon L. Suicide: Right to die? A bioethics approach to the study of suicidal dyadic attempt. *II Research Congress Psychology UNAM Psychology Dept., FES-Iztacala y FES Zaragoza*, National Autonomous University, Mexico, August, 2008.
67. Mondragon L. The essential place of bioethics in scientific practice. *Epistemology, Psychology and Teaching of Science Symposium*, National Autonomous University, Mexico, April 2007.
68. Montoya G. Confidentiality and bioethics in the sexual orientation of patients with psychiatric disorders. *VII National Bioethics Congress*, Santiago, Chile, October, 2004.
69. Moreno L. Development of scientific ethical review committee in Peru – Nacional Bioethis Commissions in Latin America. *International Symposium National Health Institute and UNESCO*, August, 2010, Lima, Peru.
70. Moreno L. Ethics of Clinical Research. *Seminar Workshop at San Marcos National Major University, National Institute of Health*, Lima, Peru, October 2005.
71. Moreno L. Ethics of Research. *Central Hospital Arm Forces*, Lima, Peru, November 2006.
72. Moreno L. Ethics of research. *Workshop to National Public Health Laboratories Net at National Institute of Health*, Lima, Peru, November 2005.
73. Moreno L. Health research priorities at Peru. *III Videoconference Health Priority & Intercultural Health*, CIEB, Santiago, Chile, July 2007.
74. Nieto V. Bioethics training course for Public Health Institute health management staff. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
75. Nieto V. Ethical challenges in the process of decision making about fetus with pathology. Perspectives of health care team. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
76. Nieto V. Health Reform at Uruguay Republic and social inequities. *II Congress Science, Technology and Culture. Simposium 32 Health Care Service Inequities at Latin America and Caribbean Countries*, Santiago, Chile, October 2010.
77. Nieto V. Health Reform at Uruguay Republic. *Bioethics congress Ethics in emergency situations*, Santiago, Chile, June 2010.
78. Ormaeche M. ¿Is inequity damaging the health of indigenous populations? *VI Brazilian Bioethics Congress, I MERCOSUR Bioethics Congress and Forum UNESCO Bioethics Net*, August-September, 2005.
79. Pavon S. Health justice at Argentina. *Bioethics congress ethics in emergency situations*, Santiago, Chile, June 2010.
80. Pavon S. Coordination Therapeutics for Sleep Medicine. *III Chilean Congress on Sleep Medicine, Chilean Society for Sleep Medicine (SOCHIMES)*, Santiago, Chile, July 2010.
81. Pavon S. Health care inequities at Argentina. *II Congress Science, Technology and Culture. Simposium 32 Health Care Service Inequities at Latin America and Caribbean Countries*, October 2010, Santiago, Chile.
82. Rendon AE. Innovation in biotechnology in developing countries. *Agrobiotechnology Congress*, Corrientes, Argentina, October 2006.

83. Rendon AE. Intellectual property and biotechnology at Latin America. Situation, challenges and possibilities. *Bicentennial Program in Science and Technology Ethics and Innovation Technology. Towards a Social Dialogue in the Hidden Dimension of Knowledge Transfer*, organized by CIEB University of Chile, with the collaboration of Pharmaceutical Industry Chamber and CONICYT, November, 2006.
84. Rendon AE. Risks and opportunities in intellectual property of genetic material at Latin America. *II National Congress on Genomic Medicine INMEGEN*, October, 2006.
85. Rodriguez K. Bioethical principles in Medical Auditing. *ANACSE*, Guayaquil, Ecuador, July 2005.
86. Rodriguez K. CIOMS Ethical Guidelines. *Tungurahua Medical Conference*, Tungurahua, Ecuador, March, 2005.
87. Rodriguez K. Confidentiality in Medical practice. *Metromedical Seminar*, Quito, Ecuador, October 2005.
88. Rodriguez K. Coordinator Bioethics *IV Congress Latin American Society for Internal Medicine*, SOLAMI, Quito, Ecuador, May 2005.
89. Rodriguez K. Ethics in the Clinical Laboratory. *Informed consent: resource for medical protection or tool for safeguarding the subject?*, Ecuadorian Medical Association, Quito, Ecuador, September 2005.
90. Rodriguez K. Ethics of Placebo use. *ASOPROFAR*, Quito, Ecuador, February 2005.
91. Rodriguez K. *II International Congress of Laboratory Medicine and V Ecuadorian Congress of Clinical Pathology and Laboratory Medicine*, Quito, Ecuador, July 2005.
92. Rodriguez K. Models for physician-patient relationship under a bioethical perspective. *IV Latin American Congress of Internal Medicine*, Latin American Society of Internal Medicine, Quito, Ecuador, May 2005.
93. Rodriguez K. Perception about bioethical issues in health care by users of Health Services at Quito-Ecuador. Physician post degree USFQ 2009-2010. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
94. Rodriguez K. Scientific ethical review committees. *International Seminar for the Ethics of Research*, Pontifical Catholic University, Ecuador, May 2005.
95. Rodriguez ML. Health Justice at Colombia. *Bioethics congress Santiago, Chile on ethics in emergency situations*, June 2010.
96. Sanders-Bruletti MM. Reflections about teaching bioethics. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
97. Torres MA. Oral Rehabilitation Seminar: Bioethical Dilemmas in Ethical Rehabilitation. *Prosthesis and Oral Rehabilitation Society*, Santiago, Chile, June 2007.
98. Torres MA. Round Table discussion: Ethics in professional practice. *I Latin American Meeting on Oral Health Bioethics*, *University of Chile*, November 11-13, 2004.
99. Torres-Quintana MA, Cortes AJ, Miranda VM, Urzua OB, Fajreldin V. Scientific ethical review committee of Dentistry Department University of Chile. Critical review. *VIII Congress Latin American and Caribbean Federation of Bioethics Institutions*, Valparaiso, Chile, June 2011.
100. Ulloa A. Bioethics philosophical basis and basic issues. *Forum Medical Ethics*, *National Autonomous University*, December 2008.
101. Ulloa A. Bioethics training and organization of scientific ethical review committees. *III Symposium Medical Ethics*, *National Autonomous University, Nicaragua*, September, 2008.
102. Ulloa A. Informed consent in surgery interventions. *Hospital Antonio Lenin Fonseca*, Nicaragua, April, 2008.
103. Valencia H. Ethics of research at Guatemala. *National University San Carlos*, Guatemala, April, 2010.
104. Vidal M. Family discrimination of patients with HIV-AIDS as violating non maleficence. *VI Brazilian Bioethics Congress, I MERCOSUR Bioethics Congress and Forum UNESCO Bioethics Net*, August-September 2005.

## APPENDIX II

## Faculty publications related to the program (selected)

*Books*

1. Cardozo C, Lolas F, Quezada A, Rodriguez E. (editores) *Etica y Odontologia. Una Introduccion*. Santiago de Chile: Programa de Bioetica OPS/OMS, CIEB Universidad de Chile; 2007.
2. Cardozo CA, Mrad de Osorio A, Martinez C, Rodriguez E, Lolas F. *El animal como sujeto experimental. Aspectos tecnicos y eticos*. Santiago de Chile: Programa de Bioetica OPS/OMS, CIEB, Universidad de Chile, 2007.
3. CIOMS. *Pautas eticas internacionales para la investigacion biomedica en seres humanos* CIOMS 2002. Traducccion del PRB /OPS/OMS. Santiago de Chile: Programa Regional de Bioetica OPS/OMS; 2003.
4. Escribar A, Perez M, Villarroel R. (editores) *Bioetica: fundamentos y dimension practica*. Santiago de Chile: Mediterraneo; 2004.
5. Leon FJ, Arratia A, Casas ML, Rodriguez E. *Bioetica general y clinica*. Santiago de Chile: Fundacion Interamericana Ciencia y Vida; 2010.
6. Lolas F, Drumond JG de Freitas. *Fundamentos de uma antropologia bioetica. O apropriado, o bom e o justo*. Sao Paulo, Brasil: Edicoes Loyola, Centro Universitario Sao Camilo; 2007.
7. Lolas F, Drumond, JG de Freitas. *Etica em Engenharia e Tecnologia*. Brasilia, Brasil: Conselho Federal de Engenharia, Arquitetura e Agronomia (Confea); 2011.
8. Lolas F, Martin D, Quezada A. (editores) *Prioridades en salud y salud intercultural*. Estudios de bioetica social N° 1. Santiago de Chile: Programa de Bioetica OPS/OMS, CIEB Universidad de Chile; 2007.
9. Lolas F, Quezada A, Rodriguez E. (editores) *Investigacion en Salud. Dimension Etica*. Santiago de Chile: Programa de Bioetica OPS/OMS, CIEB University of Chile; 2006.
10. Lolas F, Quezada A. (editores) *Pautas eticas de investigacion en sujetos humanos: nuevas perspectivas*. Santiago de Chile: Programa Regional de Bioetica OPS/OMS; 2003.
11. Lolas F. (editor) *Etica e Innovacion Tecnologica*. Santiago de Chile: Programa de Bioetica OPS/OMS, CIEB University of Chile; 2007.
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## APPENDIX III

### Academic events related to the program

1. Seminar International: *Ethical Guidelines for Research Involving Human Beings. New Developments*, organized by CIEB and BU, with the sponsoring of Fogarty International Center, Santiago, Chile, October 2003.
2. International seminar: *Fighting for the dignity of life: Ten years of bioethical debate*, organized by CIEB, Heidelberg Center for Latin America and the Psychiatric Clinic of the University of Chile, Santiago, Chile, May 2004.
3. *PAHO Knowledge Management and Learning Unit Video Conference Dialogue Health achievements – Extending social protection of health in America*, co-organized by CIEB/BU, May 2004.
4. Video Conference: *Integration of Ethics into Public Policies – The notion of ethical sustainability in health care and research, 10 years of bioethics at PAHO*, organized by BU and Virtual University, Santiago, Chile, October 2004.
5. *First Latin American Encounter of Oral Health and Bioethics*, organized by the Faculty of Dentistry of the University of Chile, CIEB and BU, with the sponsoring of Fogarty International Center, Santiago, Chile, November 2004.
6. Video conference: *Biotechnology, genomics and bioethics, their implications for public health*, organized by CIEB, with the collaboration of the Hospital Clinic of the University of Chile, Center for Latin America of Heidelberg University at Chile, Center for Humanities of National Andres Bello University, World Bank Global Development Learning Network and Institute of Public Affairs of University of Chile, Santiago, Chile, July 2005.
7. Video conference: *Health Priorities and Intercultural Health*, organized by CIEB and the University of Toronto, with the collaboration of University Arturo Prat, Superintendence of Isapres, PAHO/WHO, Health Service Bio-Bio and Ministry of Health Chile, and University of McGill Canada, August 2006.
8. *Bicentennial Program in Science and Technology Ethics and Innovation Technology*, organized by CIEB University of Chile, with the collaboration of Pharmaceutic Industry Chamber and CONICYT, August 2006.
9. *Second Latin American Encounter of Oral Health and Bioethics*, organized by the Faculty of Dentistry of the University of Buenos Aires, Argentine Dental Association, CIEB and BP PAHO, with the sponsoring of Fogarty International Center, Buenos Aires, Argentine, September 2006.
10. Book presentation: *Investigacion en Salud. Dimension Etica*. University of Chile, September, 2006.
11. *Bicentennial Program in Science and Technology Ethics and Innovation Technology. Towards a Social Dialogue in the Hidden Dimension of Knowledge Transfer*, organized by CIEB University of Chile, with the collaboration of Pharmaceutic Industry Chamber and CONICYT, November, 2006.
12. *CITI Program (Collaborative International Training Initiative) in Research Ethics, Ethics of Research in Internet*, , Santiago, Chile, November 2006.
13. Book presentation: *Etica de la Innovacion Tecnologica*. University of Chile, January, 2007.
14. *Ethics in Collaborative Research Program*. Lima, Peru, May 2007.
15. *Training in ethics of biomedical research and scientific ethical review committees for Latin American Regulatory Agencies staff*. Santiago, Chile, June 2007.
16. Video Conference: *Health Priorities and Intercultural Health*, organized by CIEB and the University of Toronto with the collaboration of the Regional Program of Bioethics PAHO/WHO, Ministry of Health and CONICYT, July 2007.
17. *Third Latin American Encounter of Oral Health and Bioethics*, organized by the Faculty of Dentistry of the Cayetano Heredia University of Lima, CIEB and BP PAHO, Lima, Peru, December 2007.
18. *International Forum Bioethical challenges in health: dignity, vulnerability and research*. CIEB and

- Cristoforus Deneke – ISDEN Bioethics Association, University Garcilaso de la Vega, Lima, Peru, September 2008.
19. *Book Presentation Health Priorities and Intercultural Health*, Diego Portales University, July 2008.
  20. *Fourth Latin American Encounter of Oral Health and Bioethics*, organized by CIEB and Circulo Argentino de Odontologia, Buenos Aires, November 2008.
  21. International Conference: *Health Regulation Ethics*, Santiago, Chile, April 2009.
  22. Seminar: *Current Perspectives on Violence*, Heidelberg University Latin American Center, Santiago, Chile, June 2009.
  23. Presentation: *Monographies Acta Bioethica*. Heidelberg University Latin American Center, Santiago, Chile, November, 2009.
  24. Seminar: *Politics and Culture in Chile: A Prospective View*, organized by CIEB and Center for Advanced Studies Peace and Truth (Madrassa), Catholic University, November 2010.
  25. Presentation: Monography Acta Bioethica *Anthropological Medicine and Nuremberg Trial*. Heidelberg University Latin American Center, Santiago, Chile, January 2011.
  26. *Classification of cultural and scientific publications*. Chilean Institute, Santiago, Chile, July and November 2011.