

## CURRICULUM VITAE OF MARTA NAVARRO-ZORRAQUINO

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### PERSONAL DATES:

FIRST NAME: *Marta* SURNAME: *Navarro-Zorraquino* SEX: *female*  
 PLACE OF BIRTH: *Zaragoza Spain* DATE: *29/ 7/ 1942*  
 ADDRESS: *Capitán Portolés, 7. 50004 Zaragoza. SPAIN*  
 PHONE: *+34 976 229068/ 630 512040*  
 e-mail: *martana@unizar.es*

### STUDIES AND DEGREES:

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INSTITUTION: *School of Pharmacy. Universidad Complutense. Madrid*  
 DEGREE IN PHARMACY Date: 1966

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INSTITUTION: *School of Medicine, University of Zaragoza*  
 DEGREE IN MEDICINE AND SURGERY Date: 1971  
 PhD THESIS: *"Contribution to the study of fibrinolysis, platelet function and antiplatelet aggregation therapeutics under the influence of surgery".* Date: 1974

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SPECIALIZATION IN GENERAL SURGERY  
 SPECIALIZATION IN GASTROINTESTINAL SURGERY  
 INSTITUTION: *H.C.U. "Lozano Blesa". University of Zaragoza*

### PRESENT POSITIONS:

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CENTRE: *H.C.U. "Lozano Blesa". Universidad de Zaragoza*  
 Clinical Head of Surgery. Associate Professor  
 ADDRESS: *Hospital Clínico Universitario "Lozano Blesa". Cirugía "A"*  
*Domingo Miral s/n. Facultad de Medicina. 50009 Zaragoza. Spain*  
 Phone: *+34 976 76 88 84*

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### PREVIOUS POSITIONS:

<i>Dates</i>	<i>Position</i>	<i>Institution</i>
2011- at present	Active member	European Academy of Sciences and Arts
2005-2009.	Deputy-head Dpt. Surgery, Gin&Obst.	School of Medicine, University of Zaragoza
1995-1998	Deputy-head Dpt. Surgery, Gin&Obst.	School of Medicine, University of Zaragoza
1976-1977	Postdoctoral Fellow	Dirección Gral de Universidades.(BOE 14/X/1976)
1975-2010	Associate Professor Surgery	School of Medicine, University of Zaragoza
1975-2010	Chief Clinical Surgery	H.C.U. "Lozano Blesa". University of Zaragoza.
1975-2012	Research Head Surg. Immunol. Group	School of Medicine, University of Zaragoza
1974-1975	University Lecturer (Surgery)	School of Medicine, University of Zaragoza
1972-1974	Assitant Lecturer (Surgery)	School of Medicine, University of Zaragoza
1971-1975	Mun. Pharmaceutical Inspectorate	Provincial Healthcare Huesca. Spain
1971-1972	Pens boarder Surg Pathol (publ. comp)	School of Medicine, University of Zaragoza
1969-1970	Assitant Professor (Pharmacology)	School of Medicine, University of Zaragoza

### RESEARCH PROJECTS FUNDED BY SPANISH AND EUROPEAN AGENCIES

Experimental model to measure the immune response induced by different types of surgery.

AGENCY: *FONDO DE INVESTGACIONES SANITARIAS Exp.: 83/1000*

Date: *14-6-1983/ 14-6-1984*

Head of research: *Marta Navarro Zorraquino*

Study of immune depression after cardiac surgery.

AGENCY: *FONDO DE INVESTGACIONES SANITARIAS Exp.: 83/0506*

Date: *5-12-1983/ 14-6-1986* Fellow: *Cristina Passtor Oliver*

Head of research: *Marta Navarro Zorraquino*

Study of changes in populations and subpopulations of lymphocytes and circulating immune complexes following surgical resection of malignant tumors.

AGENCY: *DIPUTACIÓN GENERAL DE ARAGÓN Exp.: CM 15/25*

Date: *1-10-1985/ 1-10-1988*

*Head of research: Marta Navarro Zorraquino*

Study of changes in the immune response induced by stress and anaesthesia, respectively.

AGENCY: FONDO DE INVESTIGACIONES SANITARIAS Exp.: 86/146

Date: 4-4-1986/ 4-4-1990 Fellow: Amparo Román Esteban

*Head of research: Marta Navarro Zorraquino*

Study of the immunomodulatory effect of a new drug on an experimental surgical model.

AGENCY: FONDO DE INVESTIGACIONES SANITARIAS Exp.: 86/704

Date: 4-6-1986/ 4-4-1989

*Head of research: Marta Navarro Zorraquino*

Study of immune restorative therapeutics in patients with digestive tract cancer undergoing surgery.

AGENCY: DIPUTACIÓN GENERAL DE ARAGÓN Exp.: CM 17/89

Date: 1-10-1989/ 1-10-1992 Fellow: Antonio Soláns Vázquez de Prada

*Head of research: Marta Navarro Zorraquino*

Techniques of orthotopic intestinal transplantation in rats.

AGENCY: DIPUTACIÓN GENERAL DE ARAGÓN Exp.: BCM 17/89

Date: Oct-1989/ January-1992 Fellow: Antonio Güemes Sánchez

*Head of research: Marta Navarro Zorraquino*

New approach for the study of rejection and its immunomodulation in an experimental surgical model surgery.

AGENCY: FONDO DE INVESTIGACIONES SANITARIAS Exp.: 91/ 0637

Date: 1-3-1991/ 1-3-1994

*Head of research: Marta Navarro Zorraquino*

Cytokines involved in immune responses of hydatid patient before and after surgical treatment.

AGENCY: DIPUTACIÓN GENERAL DE ARAGÓN Exp.: PCM-37/91

Date: 30-9-1991/ 30-9-1994

*Head of research: Marta Navarro Zorraquino*

Study of pre and postoperative immune response in hydatidic patients.

AGENCY: DIPUTACIÓN GENERAL DE ARAGÓN Exp.: BCM 28/91

Date: Oct-1991/ Oct-1995 Fellow: Javier Torcal Aznar

*Head of research: Marta Navarro Zorraquino*

Influence of transfusion on immune status and severity of intraabdominal infection.

AGENCY: FONDO DE INVESTIGACIONES SANITARIAS Exp.: 92/1202

Date: 1-12-1992/ 22-1-1994

*Head of research: JoséCarloSalinas*

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Immune response to pulmonary hydatidosis

AGENCY: DIPUTACIÓN GENERAL DE ARAGÓN Exp.: BCM-07/93

Date: 1-12-1993/ 1-12-1994 Fellow: Jaime Ferrer Lozano

*Head of research: Ricardo Lozano Mantecón, Marta Navarro Zorraquino*

Small bowel transplantation in rats: Investigation of the course of immunological rejection.

AGENCY: MEC DIRECCIÓN DE INVESTIGACIÓN CIENTÍFICA Exp.: HA 94-052

Date: 1-12-1994/ 1-12-1995

*Head of research: Ricardo Lozano Mantecón, Marta Navarro Zorraquino*

Experimental small bowel transplantation: a new perspective on rejection and immune modulation.

AGENCY: FONDO DE INVESTIGACIONES SANITARIAS Exp.: 97/1071

Date: 1-12-1996/ 1-12-1998

*Head of research: Marta Navarro Zorraquino*

Experimental small bowel transplantation: a new perspective on rejection and immunomodulation: CyA + thymic hormone.

AGENCY: DIPUTACIÓN GENERAL DE ARAGÓN Exp.: P-29/96

Date: 1-1-1997/ 1-1-2000

*Head of research: Marta Navarro Zorraquino*

Stimulation and blockade of IL-2R receptors, a new strategy of immunomodulation in small bowel transplantation. Experimental model.

AGENCY: FONDO DE INVESTIGACIONES SANITARIAS AND EUROPEAN AGENCIE

Exp.: 00/1164

Date: 1-1-2000/ 1-1-2003

*Head of research: Marta Navarro Zorraquino*

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Immunomodulation in an experimental model of tibial fracture. (Immunological Apects of Surgery. Consolidated Group Applied Research).

AGENCY: *DIPUTACIÓN GENERAL DE ARAGÓN* Exp.: 214-51

Date: 3-3-2003/ 3-3-2005

Head of research: *Marta Navarro Zorraquino and Felícito García-Álvarez García*

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Study of the influence of age on sepsis course and immune response in an experimental model of osteomyelitis associated with a metal implant.

AGENCY: *MINISTERIO DE CIENCIA Y TECNOLOGÍA (CICYT)* Exp.: SAF-2004-03986

Date: 1-9-2004/ 1-9-2007

Head of research: *Felícito García-Álvarez García*

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Articular surface repair by mean of autologous platelets implants. Experimental model. (Immunological Apects of Surgery. Consolidated Group Applied Research).

AGENCY: *DIPUTACIÓN GENERAL DE ARAGÓN* Exp.: B27(214-60)

Date: 25-4-2005/ 25-4-2006

Head of research: *Marta Navarro Zorraquino and Felícito García-Álvarez García*

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Evolution of platelet implant in articular cartilage repair Experimental model. (*Aspectos Inmunológicos de la Cirugía. Grupo consolidado de investigación aplicada*).

AGENCY: *DIPUTACIÓN GENERAL DE ARAGÓN* Exp.: B27(214-60)

Date: 25-4-2007/ 25-4-2008

Head of research: *Marta Navarro Zorraquino and Felícito García-Álvarez García*

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Study of the effect of age on the immune response, Th1, Th2, Th3, in an experimental model of tibial fracture and osteosynthesis.

AGENCY: *DIPUTACIÓN GENERAL DE ARAGÓN* Exp.: B-27

Date: 25-9-2008/ 25-9-2009

Head of research: *Marta Navarro Zorraquino*

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Study of immunomodulation induced by implanting mesenchymal cells in tissue regeneration and transplantation of intestine in rats. (Immunological Apects of Surgery. Consolidated Group Applied Research).

AGENCY: *DIPUTACIÓN GENERAL DE ARAGÓN* Exp.: B-27

Date: 25-9-2009/ 25-9-2010

Head of research: *Marta Navarro Zorraquino*

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## **PAST RESEARCH PROJECTS WITH OTHER INSTITUTIONS**

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New immunomodulating drugs in surgery. Experimental models.

*H.C.U." Lozano Blesa". Zaragoza. Servicio de Cirugía "A". Grupo de Investigación: "Aspectos inmunológicos de la Cirugía". Departamento de Parasitología. Facultad de Farmacia. Universidad Complutense. Madrid.*

*DURATION: 1998-2003*

*Main resarchers: Marta Navarro Zorraquino (University of Zaragoza Spain)*

*Anotonio Martínez Fernández. Univ. Complutense (Madrid Spain)*

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## **GRANTS:**

- 22 University of Zaragoza. (participation in 22 international scientific meetings; from 1981 to 2006) (Badajoz. Spain 2006, Munich Germany 2000, Vienna Austria 1999, Madrid Spain 1998, Leon. Spain 1996, Madrid Spain 1996, Lisbon. Portugal 1995, Jackson. Mississippi. USA 1994; Madrid. Spain 1993, Salzburg Austria 1991, Stockholm, Sweden. 1991, Barcelona 1990, Berlin Germany 1990, Brussels Belgium; Toronto. Canada 1989, Bologna, Italy 1988, Munich Germany 1988, Sydney Australia 1987, Nancy France. 1986, Paris France 1985, Rotterdam Holland 1985, Montreux, Switzerland 1981)
- Ministerio de Asuntos Exteriores scientific meeting Turku. Finlandia. 1993
- Fondo Investigaciones Sanitarias scientific meeting Hong Kong 1993
- Fondo Investigaciones Sanitarias scientific meeting München. Alemania. 1991
- Fondo Investigaciones Sanitarias scientific meeting Milan. Italia. 1990
- Diputación General de Aragón ./C. A. I.: scientific meeting Varsovia Polonia 1989
- Fondo Investigaciones Sanitarias scientific meeting Cracovia. Polonia 1989
- Fundación "Cánovas del Castillo". Beca de la Universidad Internacional del Mediterráneo. 1986

- University of Zaragoza. scientific meeting Medical College of Virginia Commonwealth University. Richmond EEUU 1979
- Dirección General de Universidades. Postdoctoral fellowship for researcher training abroad. (B.O.E de 14 de Septiembre 1976). 1976-1977: Institut de Cancerologie et d'Inmunogenetique. Hôpital Paul Brousse. Prof. G. Mathè and Medical College of Virginia Commonwealth University. Richmond EEUU. Division of Vascular Surgery Clinical Transplant Program. Prof. Lee.
- Universidad de Zaragoza. Beca de Ayuda a la Investigación. 1975

## **PRIZES**

- Supervision 12 PhDs Theses “cum laude”. University of Zaragoza. Spain (1991-2007)
- Foundation Award MAFRE scientific work: "Study of the immunological status of elderly patients after arthroplasty candidates subcapital hip fracture: a study of its relationship with age and postoperative morbidity and mortality". October 2006 (Research in Surgery Immunology Group)
- Spanish Society of Orthopedics and Traumatology. MAFRE Foundation Award 1998. Work: "Modulation of immune response in surgical sepsis. F. Garcia-Alvarez, M. Navarro-Zorraquino, R. Mantecón Lozano et al. 1998
- Royal Academy of Doctors in Spain. National Award for best doctoral thesis of the year qualified "cum laude" in an issue of Science. Doctoral Thesis D. J. Torcal Aznar. Supervisor: Marta Navarro-Zorraquino. 1994
- University of Zaragoza. Special award for Doctoral Thesis: Antonio Güemes Sánchez. Supervisor: Marta Navarro-Zorraquino. 1993
- Supervision 7 PhDs Theses “cum laude”. University of Zaragoza. Spain (1979-1990)
- University of Zaragoza. Special Prize for Doctoral Thesis of Mrs. Amparo Esteban Román. Supervisor: Marta Navarro-Zorraquino. 1990
- University of Zaragoza. Special award for PhD Dissertation Temiño Ms. Mercedes Ruiz Bravo. Run by the signatory of this curriculum. Supervisor: Marta Navarro-Zorraquino. 1989
- Spanish Association Against Cancer. Prize ex aequo, the year's best doctoral thesis, defended at the University of Zaragoza, on an oncological topic. By Ms. Mercedes Ruiz de Temiño. Supervisor: Marta Navarro-Zorraquino. 1989
- Award of the Spanish Society of Parenteral and Enteral Nutrition: Anergy and its dependence of malnutrition in neoplastic and nonneoplastic surgical patients 1984 (Research In Surgery Immunology Group)
- University of Zaragoza. Special Prize for Doctoral Thesis: Sebastian Celaya Pérez. Supervisor: Marta Navarro-Zorraquino 1983.
- PhD Thesis “cum laude” 1974
- Royal Academy of Medicine of Zaragoza. Award “Grace Zatorre” Foundation: "Pharmacobiochemistry: drug reaction, such as chemical species, in the receptor substrate”. 1970

## **HONOURS**

- Member of European Academy of Sciences and Arts. Slzburg 5 March 2011 – to present day
- Member of the New York Academy of Sciences. April 1997 – to present day
- Chairperson of the Scientific Session: “Hepatic regenerativa surgery ¿research or reality?. XVI Nacional Surgical Reunion of the Spanish Association of Súrgenos. San Sebastián (Spain). October 2007
- Member of Scientific Committee of the XIV National Congress of Surgery of the Spanish Society of Surgical Research. Madrid Spain. September 2006
- Member of Scientific Committee of the Spanish Association of Surgeons (For election: SAS General Meeting of Madrid in November 2002) 2002 / November 2006
- Member of Scientific Committee of the XXVI National Congress of Surgery of the Spanish Association of Surgeons. Madrid Spain. November 2006
- National Delegate (Spain) at the European Society for Surgical Research (ESSR) for election at the 32nd Congress (Corfu, Greece) May 1997/2005
- Commission member-delegates (Aragón) for the selection and provision of places of special powers to area of General Surgery and Digestive Diseases. BOE n ° 157. 30 Junio 2004. BOE n ° 157. (30 June 2004).
- Member of Scientific Committee of the XXV National Congress of Surgery of the Spanish Association of Surgeons. Madrid Spain. November 2004
- Recognition Research Team, "Immunologic Aspects of Surgery" (directed by Marta Navrro-Zorraquino) and Consolidated Group of Applied Research, the Directorate General of Higher Education of the Government of Aragon, Universidad de Zaragoza. 2003 / today (April 20, 2005 ratification BOA)
- Integration Research Team: "Study of the impact of digestive surgery of various types, terrain and circumstances, on the immune system: pre-and postoperative imunomodulación." Study of the immune response in the digestive organ transplants and immunomodulation "(directed by the signer of this curriculum) in RNIHG (National Network for Research in Hepatology and Gastroenterology). Digestive Pathology: Group 2: Group research and immunogenetic immune response in diseases and surgery of the digestive system. September 2002
- Member of Scientific Committee of the XII National Congress of Surgery of the Spanish Society of Surgical Research. Valladolid Spain. April 2002

- Member of Scientific Committee of the XXIV National Congress of Surgery of the Spanish Association of Surgeons. Madrid Spain. November 2002
- Board Member of the Spanish Society of Hidatidología. (reelection in October 2002). 1995/ to present.
- Member of Scientific Committee of the XXVI International Congress of the Latin Mediterranean Surgical Society. Barcelona Spain. June 2001
- Member of Scientific Committee of the XIII Nacional Surgical Reunion of the Spanish Association of Surgenos. Zaragoza (Spain). November 2001
- Secretary General of the Spanish Society for Surgical Research 1992-2000. (Re-election in June 1996).
- XXXVth European Society for Surgical Research -ESSR- Congress. Invitation as Chairperson. Malmö (Sweden). June 2000
- Member of the Research Commission. HCU "Lozano Blesa" dof Zaragoza. (Secretary of the Commission since January 1987 to 26 March 1991). From March 26, 1991-2000 voting member.
- Member of Scientific Committee of the XI National Congress of Surgery of the Spanish Society of Surgical Research. Bilbao (Spain) April 2000
- Voting member of the Research Section of the Spanish Association of Surgeons. January 1995/ 1999.
- Participation in work: Spanish Surgery International Context. Bibliometric analysis through the Science Citation Index (1990-1994). Produced by: Joint Center of Pharmacology. CSIC / Chair of Surgery. Universidad Complutense de Madrid. and Research Section of the Spanish Association of Surgeons. 1998
- Member of Scientific Committee of the X National Congress of Surgery of the Spanish Society of Surgical Research. Sevilla (Spain) March 1998
- Designer and Director of the Master: "Immunological Aspects of Surgery. By appointment of the Governing Board of the University of Zaragoza (Academic Planning) April 2, 1998
- Inclusion of the research team in the National Directory of Research Units in Oncology. (1986/1995). Bilbao Spain. November 1998
- Chairperson of the Scientific Session: Summary and Conclusions. III Meeting of the Cooperative Spanish Group for Intestinal Transplantation. Zaragoza (Spain). January 1996
- Founding member of the Cooperative Spanish Group for Intestinal Transplantation. Barcelona (Spain). June 1996
- Founder and coordinator of the "Internet Echinococcosis" (University of Zaragoza). wzar. unizar.es/hydatidosis October 1996
- Inclusion of the research team, led by the signatory of this curriculum in the "Research structure" of the European Society for Surgical Research. May 1995
- The research paper entitled: "Blood lymphocyte populations in experimental bowel transplantation" was chosen among the top 30 European works to be presented at the Tripartite Meeting of: European Surgical Research, The Surgical Research Society (Great Britain) and The Society of University Surgeons (USA). Held in Jackson, Mississippi (USA) in February 1994.
- Member of the Committee on Research and Teaching in the Third Cycle of the Department of Surgery, Gynecology and Obstetrics, University of Zaragoza. 1992-1994.
- Member of Scientific Committee of the VIII National Congress of Surgery of the Spanish Society of Surgical Research. Madrid (Spain) October 1994
- Member of the "Working Group" on "Immunodiagnosis. Theme: "Echinococcus granulosus" Cystic Echinococcus granulosus " at World Health Organization. 1992
- Member of Scientific Committee of XXVII Congreso of European Society for Surgical Research (ESSR). Zaragoza. Spain 1992.
- The research paper entitled: "Immune response in patients with digestive tract cancer undergoing surgery" as the top eight presented at the VIIIth Tripartite Meeting of the Society: European Surgical Research, The Surgical Research Society (USA) and The Society of University Surgeons (Great Britain). Was presented in Session "Brendel" of the Congress in Salzburg, Austria) in May 1991.
- Member of the Research Committee of the Faculty of Medicine, University of Zaragoza, representing the Department of Surgery. (Course 1985-86, by election among members of the Department's constitution) (From 1987 re-election among members of the Department of Surgery, Gynecology and Obstetrics and constituted) 1985-current 1990-1991
- Member of the Clinical Trials Committee. H.C.U. "Lozano Blesa" University of Zaragoza Spain 1983-1987.
- The work presented, with the title: "Influence of intraoperative dextran infusion on platelet function. Comparison with the action of heparin - in the Ninth European Federation Congress International College of Surgeons, was selected among the best to be part of the Book" Controversial Opinions in Surgery. 1976

## **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

### Member of the following Spanish Scientific Societies:

Asociación Española de Cirujanos.  
 Asociación Española de Hemostasia y Trombosis (founder member) (to 1990)  
 Asociación Aragonesa de Cirugía.  
 Sociedad Española de Hidatidología.  
 Asociación Española de Investigación sobre el Cáncer.  
 Sociedad Española de Investigaciones Quirúrgicas. Miembro de Honor.  
 Sociedad Española de Cirugía del Mediterraneo Latino.

### Member of the following International Scientific Societies:

International Society for Experimental Microsurgery (Enero 1999/2005)  
 European Association for Cancer Research (EACR) (1998/ present)  
 European Society for Surgical Research (Mayo 1980/ present).  
 Asociación Internacional de Hidatidología (Diciembre 1979/ present)  
 Société Internationale de Chirurgie (Septiembre 1975/ present).  
 International College of Surgeons (Septiembre 1973/ 1996).

## **EDITORIAL COMMITTEE MEMBERSHIPS**

- Evaluator commissioned by the Editorial Board of Journal of Orthopaedic Research (Pub.: John Wiley & Sons Inc. England), to review a research study on "Phenotype and condrogenic differentiation of mesenchymal cells from adipose tissue of different species". October 2008
- Reviewer of the Journal of Microbiology Latinoamérica (2006-2008)
- Member of Scientific Committee of the Spanish Journal of Surgical Research Ed: C. Vaquero. Lab Cir. Exp Faculty of Medicine. University of Valladolid. Official Organ of Broadcasting S.E.I.Q. 1998 / 2008.
- Reviewer of the journal Spanish Surgery. Ed Doyma S.L. Barcelona. (expert) at work: "The prognostic value of retrdada skin reactivity in 10-year survival in colorectal cancer: a prospective study, number 680/01 January 2002
- Advisory Committee Member, "Spanish Journal of Surgery". July 2002
- Evaluator commissioned by the Editorial Board of the journal Acta Tropica Karolinska Institute at Danderyd Hospital (Sweden), a research study on the immunology of hydatid disease. January 1999
- Member of Scientific Committee of the journal Research in Surgery. Ed: Research Center. University General Hospital. Diputación de Valencia. CICYT, FIS. Valencia. 1994/1998.
- Assistant Managing Editor of the Ibero-Americana Journal of Surgery Ed: "New Editorial Aran. Madrid. Director: Prof. Voltas Baro. 1992.
- Co-editor of the issue of the journal: European Surgical Research 24 (S2) 1992. (Monograph dedicated to the research selected by the Scientific Committee of the XXVII International Congress of the European Society for Surgical Research). 1992

## **OTHERS**

### **Guest speaker:**

### Invited lectures in International Congress and Scientific Meetings:

- IV Iberian Congress of Hydatidology. XXXII International Conference of Hydatidology: Immune Response of patients with hydatid disease: its possible relationship to age and other circumstances. Badajoz (Spain). November 2006
- VII National Congress of "Reales Academias de Medicina: Instituto de España": The rejection and its immunomodulation in the small bowel transplantation. Zaragoza (Spain). September 2002
- II Iberian Congress of Hydatidology. XII National Meeting of the Spanish Association of Hydatidology. VII Congress of the Portuguese Society of Hydatidology: Cellular immune response in hydatidosis. Avila (Spain). October 2002
- I Iberian Congress of Hydatidology. Conference Panel: Diagnóstico Laboratorial da Hidatidose. Invited lecture: Progress in immune diagnosis. Beja (Portugal). November 2000
- II International Course in immunotherapy and gene therapy of cancer: on the threshold of 2000. European School of Oncology: Immunotherapy and results of surgical oncology. University of Zaragoza (Spain). November 1999
- Fifth Meeting of the European Intestinal Transplantation Study Group (EITSG) Invited lecture: BMR in the small bowel allograft rejection. Sitges (Barcelona. Spain) May 1994

- XV Extraordinary International Congress of Hydatidology. Roundtable: Biologic diagnosis of hydatidosis: Pre- and postoperative immune response of patients with hydatidosis. Roma (Italy). November 1991
- VI Congresso Nazionale della Società per le Applicazioni Tecnologiche in Chirurgia (SIATC): Application of monoclonal antibodies for the study of immune response in surgery. Bologna (Italy). September 1990
- Kenya Medical Association Work-shop on Advances in Therapeutic Immunomodulation: clinical experience. Invited lecture: Role of therapeutic immunomodulation in surgery. Mombasa (Kenya). December 1989
- Royal Academy of Pharmacy. Invited lecture: Antiplatelet action of oxiquinazina methylated. Study in vivo and in vitro. Madrid (Spain) February 1974

### Invited lectures in Spanish Congress and Scientific Meetings: 21

#### **Visiting researcher:**

- Klinikum Grosshadern Institut für Chirurgische Forschung (Prof. Messmer) Munich Germany February-March 2000 Purpose of stay: Extend knowledge about some aspects of the research lines of our team, "Immunological Aspects of Surgery.
- Dept of Surgery Chirurgische Klinik (Prof. Herfarth). University of Heidelberg. Germany February-March 2000. Purpose of stay: Extend knowledge about some aspects of the research lines of our team, "Immunological Aspects of Surgery"
- Novartis Basel Switzerland. February-March 2000 Purpose of stay: Extend knowledge of drugs applicable to one of the research lines of our team, "Immunological Aspects of Surgery.
- Institut für Chirurgische Forschung. Prof. Messmer. Munich Alemania. Marzo 1994. Exchange ideas for conducting a research project, on: small bowel transplantation in the rat: Research into immunohistological course of rejection.
- Bhering Institute, Marburg. Alemania. Febrero 1980.
- Polish Academy of Sciences. Medical Research Center. Department for Surgical Research and Transplantology. Prof. W. L. Olszewski. Varsovia. Polonia. Septiembre 1989. Purpose of stay: To exchange ideas about the direction of research: Immunity and Surgery. Submit a study done by the Research Team (led by the signatory of this CV) on "Immunity and cancer surgery".
- Cardiovascular Surgery Department of the Stanford Medical Center. Universidad of Stanford (Palo Alto, California, USA). Prof. R. Shumway. EE.UU. Septiembre 1979
- Division of Vascular Surgery Clinical Transplant Program. Prof. Lee Medical College of Virginia Commonwealth University. Richmond EEUU 1979
- Instituto "Jaime Ferranz" of Higher Council for Scientific Research. Department of Microbiology (Head Professor: Lorenzo Vilas). Madrid Spain. July 1971

#### **PUBLICATIONS:**

***BOOKS (editor and/or chapters): 39***

***SCIENTIFICS JUORNALS: 195***

***ABSTRACTS BOOKS: 128***

#### **DIRECTION OF DOCTORAL THESIS: 21**

***Zaragoza 11 abril 2011***