

Curriculum Vitae

Name: Rosa Codina Overcash

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Areas of Specialization

- Clinical and experimental laboratory (including quality assurance, serology testing, and immunoassay development)
- Allergen field (including allergen identification and characterization, indoor allergens, outdoor allergens, and testing of allergen avoidance products and procedures in the laboratory and in the field)

Academic Education

- **Ph.D.**, Doctoral thesis entitled “Study of the Soybean Allergens Responsible for the Barcelona Asthma Outbreaks”. Department of Physiology, College of Biology, University of Barcelona, Barcelona, Spain, June 1996 (aerobiology, allergen identification, and serology).
- **M.S.**, University of Barcelona, Barcelona, Spain, July 1985 (zoology)
- **B.S.**, University of Barcelona, Barcelona, Spain, June 1985 (biology)

Non-Academic Education and Training

- Human subjects research. National Institutes of Health and University of South Florida, Tampa, FL, 2006/04/01.
- Advanced indoor air quality. Plate culture spore identification. McCrone Research Institute, Chicago, IL, 2003.
- Advanced indoor air quality. Advanced fungal spore identification. McCrone Research Institute, Chicago, IL, 2003.
- Indoor air quality. Fungal spore identification. McCrone Research Institute, Chicago, IL, 2002.
- Indoor allergen assays. Indoor Biotechnologies, Charlottesville, VA, 2001.
- Pollen and fungal spore identification course. American Academy of Allergy Asthma and Immunology Aeroallergen Monitoring Network, San Francisco, CA, 1999.
- Received private training on pollen and spore identification during 1995 and 1996 from Mary L. Jelks, M.D., allergist with more than 30 years of experience in aerobiology.
- Advances in pulmonologic diseases. University of Barcelona, Barcelona, Spain, 1993/90/89.

- Allergen identification. Mayo Clinic Allergen Research Laboratory, Rochester, MN, 1987.
- Laboratory quality assurance. University of Barcelona, Barcelona, Spain, 1985.

Other Professional Qualifications

- Specialist in clinical biochemistry. Spanish Ministry of Public Health. Title # 17615.
- Certified spore analyst. Pan American Aerobiology Association. Certification #03040006
- Certified pollen identification analyst. American Academy of Asthma Allergy and Immunology National Allergy Bureau.

Employment History

- **Senior research scientist:** Greer Laboratories, Inc., Lenoir, NC. August 2007-present
- **Faculty, affiliate assistant professor of internal medicine:** Division of Allergy and Clinical Immunology, Department of Internal Medicine. University of South Florida, Tampa, FL, USA. January 2003 – present.
- **Principal scientist:** SDII-Global Corporation, Tampa, FL. January 2003 – July 2007
- **Faculty, assistant professor of internal medicine:** Division of Allergy and Clinical Immunology, Department of Internal Medicine. University of South Florida, Tampa, FL, USA. September 2000 – December 2002.
- **Faculty, instructor of internal medicine:** Division of Allergy and Clinical Immunology, Department of Internal Medicine. University of South Florida, Tampa, FL, USA. March 1999 – August 2000.
- **Faculty, assistant of internal medicine:** Division of Allergy and Clinical Immunology, Department of Internal Medicine. University of South Florida, Tampa, FL, USA. July 1996 – February 1999.
- **Research assistant of internal medicine:** Division of Allergy and Clinical Immunology, Department of Internal Medicine. University of South Florida, Tampa, FL, USA. September 1994 – June 1996.
- **Adjunct faculty, clinical allergy laboratory supervisor:** Department of Biochemistry and Immunology, Allergy Section, Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, April 1990 – August 1994.
- **Fellow in allergy and immunology laboratory:** Department of Biochemistry, Immunology Unit, Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, August 1988- March 1990.

- **Fellow in clinical biochemistry laboratory:** Department of Biochemistry, Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, January 1986- July 1988.

Clinical Laboratory Activities

- Biochemistry Service, Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, October 1986 – July 1988. Rotation in a clinical laboratory, including the following units: Urine, proteins, automatic analyzers, enzymes, lipids, hormones, drugs, humoral immunology, quality assurance, and emergency laboratory. Tasks included learning how to perform different assays and clinical interpretation of laboratory results.
- Biochemistry Service, Immunology Unit, Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, January 1989 – March 1990. Assistant supervisor at the humoral immunology laboratory. Tasks included increasing knowledge in humoral immunology techniques, clinical interpretation of results, and assisting in the supervision of the laboratory budget and statistics as well as tasks performed by laboratory technicians.
- Biochemistry Service, Immunology Unit, Allergy section, Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, April 1990 – August 1994. Allergy laboratory supervisor. Tasks included supervising in vitro allergy testing results, laboratory budget and statistics, and developing new and cost-effective assays to utilize in the daily practice.

Research Activities

- Allergy Research Laboratory, Mayo Clinic, Rochester, MN, USA. November-December 1987. Allergen identification and partial characterization of the soybean allergens responsible for the Barcelona asthma outbreaks.
- Division of Allergy and Clinical Immunology, Department of Internal Medicine, University of South Florida, Tampa, FL, USA. November-December 1989. Continuation of the partial characterization studies of soybean allergens, and a prevalence study of specific antibodies against storage mites in an allergic population from the Barcelona area.
- Division of Allergy and Clinical Immunology, Department of Internal Medicine, University of South Florida, Tampa, FL, USA. November 1991-February 1992. Purification of the soybean allergens involved in soybean dust-induced asthma and obtention of monoclonal antibodies.
- Division of Allergy and Clinical Immunology, Department of Internal Medicine, University of South Florida, Tampa, FL, USA. September 1994-May 1996. Purification of the soybean hull allergens involved in soybean-induced asthma, study of the possible role of specific IgG4 to soybean hull allergens as a sensitizing antibody, and measures to reduce allergenicity of soybean seeds.

- Division of Allergy and Clinical Immunology, Department of Internal Medicine, University of South Florida, Tampa, FL, USA. June 1996- present. Standardization of assays to measure indoor allergens, testing of anti-allergic products for environmental control purposes, allergen identification, aerobiologic surveys in Florida, standardization of assays to measure outdoor aeroallergens in air samples, and continuation of several soybean-induced asthma research projects.

Academic Teaching Activities

- Biochemistry professor at the Vall d'Hebron General Hospital. University of Barcelona, Barcelona, Spain, 1990-1994, part-time.
- College of Medicine lecturer. Division of Allergy and Clinical Immunology, Department of Internal Medicine. University of South Florida, Tampa, FL, USA, 1996 – present.

Aerobiology Survey Activities

- Performed daily aerobiology surveys in the Tampa Bay area, FL from 1995 to 2002. Disseminated daily pollen and spore counts to the American Academy of Asthma Allergy and Immunology Allergen Monitoring Network, local medical community, local media, and pharmaceutical companies performing environmental clinical allergy trials.
- Set up a pollen and spore counting station in Jacksonville, FL in 1999. Conducted aerobiology surveys in Jacksonville, FL from 1999 to 2002. Disseminated pollen and spore counts to the local medical community and local media three times a week.
- Conducted aerobiology surveys in Ocala, FL from 1998 to 2001. Disseminated pollen and spore counts to the local medical community and local media twice a week.
- Assisted the University of Montana College of Public Health in Missoula, MT setting up a pollen and spore counting station in 2002.
- Presented results of aerobiology surveys to scientific meetings and the medical community at local hospitals, including Tampa General Hospital, All Children's Hospital, and James A. Haley VA Hospital in Tampa, FL.
- Starting in 2003, performed indoor and outdoor spore counts and identification of air and surface samples collected during the course of building assessments for fungi in the Southeast of the USA.

Consulting Activities

- SDII Global Corporation, Tampa, FL. January 2003-July 2007. Provided consulting and developed protocols for indoor evaluations of environmental allergens.

Professional Recognitions

Principal investigator of the following grants:

- Grant from the Spanish Ministry of Public Health (FISss # 89/2108), entitled “Ampliación de estudios para la identificación y caracterización de antígenos inhalantes, en especial de los implicados en la etiología de las enfermedades pulmonares ocupacionales con base inmunológica” (Continuation of allergen identification and characterization studies, with a particular focus on those involved in occupational immunological lung diseases), at the Division of Allergy and Clinical Immunology, Department of Internal Medicine, University of South Florida, Tampa, FL, USA. November-December 1989.
- Grant from the Spanish Ministry of Public Health (FISss # 90/5200), entitled “Purificación y caracterización de alérgenos” (Allergen purification and characterization), at the Division of Allergy and Clinical Immunology, Department of Internal Medicine, University of South Florida, Tampa, FL, USA. November, 1989-February 1990.
- “Maria Rava” Foundation, 1991, entitled "Evolucio i caracteritzacio antigena en el pulmo de cuidador d'aus" (Antigen characterization in pigeon breeders' disease). January 1991-January 1992.
- Grant from the Ecology Works, San Rafael, CA, entitled “The efficacy of DOT and vacuum cleaning in lowering house dust mite populations and house dust mite allergen levels in homes”, 2000-2001.
- Morris E. Friedman Research Grant, from the Asthma and Allergy Foundation of America, entitled “Study of the indoor allergens present in central Florida”, 2002.

Co-principal investigator of the following grants:

- Grant from the Spanish Ministry of Public Health (FISss # 89/0924-3), entitled "Estudio inmunológico sistematizado de los pacientes afectados de asma epidémico de Barcelona" (Immunologic study of the patients affected by the Barcelona asthma outbreaks). This was the subproject # 3 of the project entitled "Epidemias de asma de Barcelona: descripción clínica de los asmáticos epidémicos, evolución de la enfermedad y factores de riesgo (Barcelona asthma outbreaks: Clinical description of the asthmatic epidemic patients, evolution of the disease, and risk factors). Principal investigator: Ferran Morell, M.D., 1989-1991.
- Grant from the Spanish Ministry of Public Health (FISss # 91/0506), entitled "Estudio higiénico epidemiológico de los trabajadores de la industria del nácar, afectados de AAE" (Epidemiologic study of nacre industry workers). Principal investigator: Ramón Orriols, MD., 1991-1992.
- Grant from the Spanish Ministry of Public Health (FISss # 90/0941), entitled "Estudio inmunológico sistematizado de la población industrial del corcho con riesgo de asma, EPOC y suberosis. Caracterización de antígenos. (Immunologic study of the cork industry workers with risk of developing asthma. Antigen characterization). Principal investigator: Maria-Jose Rodrigo, MD., 1990-1993.
- Grant from the American Lung Association of Florida, entitled "Elimination of

dust mite allergens in homes through whole house dehumidification systems".
Principal investigator: Subrato Chandra, Ph.D., 1996-1997.

Professional Associations

- 2006 – present. Member, University of South Florida, Allergy and Immunology Alumni Society
- 2003- present. Member, Pan-American Aerobiology Association (PAAA)
- 2002- present. Member, Indoor Air Quality Association (IAQA)
- 1999- present. Member, European Countries Biologist Association (ECBA)
- 1997- present. Fellow, American Academy of Allergy Asthma and Immunology (AAAAI)
- 1989- present. Member, European Academy of Allergology and Clinical Immunology (EAACI)
- 1985- present. Member, Col.legit Oficial de Biologs, COB, (College of Biologists, Spain)
- 2004- 2007. Member, American Industrial Hygienist Association (AIHA)
- 1985- 2002. Member, Sociedad Española de Química Clínica, SEBC, (Spanish Society of Clinical Chemistry)
- 1985- 2002. Member, Sociedad Española de Inmunología, SEI, (Spanish Society of Immunology)

Journal Reviewer

- Journal of Allergy and Clinical Immunology
- Allergy
- Clinical Experimental Allergy

Committees

- The Ecology Works Scientific Board, since 2002
- American Academy of Allergy Asthma and Immunology Indoor Allergens Committee, since 2003
- American Academy of Allergy Asthma and Immunology Aerobiology Committee, since 2003
- American Academy of Allergy Asthma and Immunology Air Pollution Committee, since 2007
- Indoor Air Quality Association Research Committee, since 2007

Special Student Awards and Postgraduate Students in Training

- Wen Zaoming, M.D. (research scholar), from the Peking Union Medical College, Beijing China. September 1994 - November 1994. Characterization of the mulberry silk allergens.
- Carina Uasuf, (pre-doctoral student), from University of Rosario, Rosario, Argentina. January - March 1995. Mite identification.
- Ledit Arduso, M.D., (research scholar), from University of Rosario, Rosario, Argentina. February - March 1995. Mite identification.
- Adriana Rodriguez, M.S. (research scholar), from the Hospital Lorencita Villegas de Santos, Bogotá, Colombia. May - July 1995. Characterization of the *Fraxinus chinensis* (Urapan) allergens.
- Albert G. Oehling, Jr., M.D. (research scholar) from the Clínica Universitaria de Navarra, Pamplona, Spain. January - December 1996. Study of soybean hull neoallergens.
- Maria-José Pascual, M.D., (research scholar) from the Clínica Universitaria de Navarra, Pamplona, Spain. January - December 1996. Study of soybean hull neoallergens.
- Ledit Arduso, M.D., (research scholar) from University of Rosario, Rosario, Argentina. February 1997. Prevalence study of soybean dust-induced asthma in Argentina.
- Cristina Jaen, B.S., (research scholar) from University of Barcelona, Barcelona, Spain. September 1998 - August 1999. Basic laboratory training.
- Runa Diwadkar, B.S., (graduate student), from University of South Florida, Tampa, Fl. August 2000 – August 2001. Basic laboratory training.
- Sean Godfrey (undergraduate student) from University of South Florida, Tampa, Fl. March 2001 – March 2002. Study of dust mite allergen levels in Central Florida.
- Savio Dsouza (undergraduate student) from University of South Florida, Tampa, Fl. November 2001 – June 2002. Study of hidden allergens in flour samples.
- Larry L. Mobley (undergraduate student) from University of South Florida, Tampa, Fl. August 2000 – November 2002. Basic laboratory training.
- Mattew Roby (graduate student). June – July 2008. Endotoxin research and immunoassay standardization.

Publications

- 1 Ricos C., **Codina R.** La variabilidad biológica intraindividual como objetivo de calidad analítica (intra-individual biological variation as a goal in analytical quality). Rev Diag Biol 1989;38:34-36.

- 2 Orriols R., Manresa J.M., Aliaga J.L., **Codina R.**, Rodrigo M.J., Morell F. Mollusk shell hypersensitivity pneumonitis. *Ann Intern Med* 1990;113:80-81. **Best article published in English literature in 1990 – Award from the Catalan Society of Pulmonology.**
- 3 Rodrigo M.J., Fonollosa V., **Codina R.**, Vilardell M., Schwartz S. Estudio y significado de los inmunocomplejos circulantes y su correlación con otros parámetros inmunológicos en enfermedades del tejido conjuntivo (Study and significance of circulating immunocomplexes and their correlation with other immunological parameters in connective tissue diseases). *Med Clin* 1990;95:241-246.
- 4 Rodrigo M.J., **Codina R.**, de Gracia J., Morell F., Pascual C. Valores normales de las subclases de la Inmunoglobulina G en una población de adultos. Su importancia en el estudio de los déficits de las mismas (IgG subclass reference values in an adult population. Their importance in the study of IgG subclass deficiencies). *Med Clin* 1992;98:10-14.
- 5 Sunyer J, Anto J.M, Sabria J., Rodrigo M.J., Roca J., Morell F., Rodriguez-Roisin R., **Codina R.** Risk factors of soybean epidemic asthma: The role of smoking and atopy. *Am Rev Respir Dis* 1992; 145:1098-102.
- 6 Anto J.M., Sunyer J., Reed C.E., Sabria J., Martinez F., **Codina R.**, Morell F., Rodriguez-Roisin R., Edin F.R.C.P., Rodrigo M.J., Roca J., Saez M. Preventing asthma epidemics due to soybeans by dust-control measures. *N Engl J Med* 1993;329:1807-8.
- 7 Sabria J., Anto J.M., Sunyer J., Roca J., Morell F., Rodriguez-Roisin R., Rodrigo M.J., **Codina R.** Clinical and functional characteristics of patients two years after being affected by the soybean asthma epidemic in Barcelona. *Thorax* 1994;49:906-9.
- 8 De Gracia J., Miravittles M., Vendrell M., Rodrigo M.J., **Codina R.**, Morell F. Estudio de las subclases de la IgG en pacientes con déficit de IgA sintomáticos (Study of IgG subclasses in patients with symptomatic IgA deficiency). *Med Clin* 1995;104:728:31.
- 9 Morell F., **Codina R.**, Rodrigo M.J., Sunyer J., Anto J.M., Reed C.E. Diagnosis of soybean-induced asthma. *J Allergy Clin Immunol* 1995;96:320-4.
- 10 De Gracia J., Rodrigo M.J., Morell F., Vendrell M., Miravittles M., Cruz M.J., **Codina R.**, Bofill J.M. IgG subclass deficiencies associated with bronchiectasis. *Am J Respir Crit Care Med* 1996,153:650-5.
- 11 **Codina R.**, Trudeau W.L., Fernandez Caldas E, Rodrigo M.J., Morell F., Lockey R.F. Mite allergens did not cause asthma epidemics in Barcelona, Spain. *J Allergy Clin Immunol* 1996;98:236-8.

- 12 Zaoming W., **Codina R.**, Fernandez-Caldas E., Lockey R.F. Partial characterization of the silk allergens. *J Invest Allergol Clin Immunol* 1996;6:237-41.
- 13 Chandra S, Lockey R.F., Alidina L.W., Beal D., **Codina R.**, Gehring K. Adverse health effects and elimination of dust mites in humid climate housing. Proceedings of the 7th International Conference on Indoor Air Quality and Climate, July 21-26, 1996. Nagoya, Japan, 3:433-8.
- 14 **Codina R.**, Calderon E., Fernandez-Caldas E., Lockey R.F. Specific immunoglobulins to soybean hull allergens in soybean asthma. *Chest* 1997;111:75-80.
- 15 **Codina R.**, Lockey R.F., Fernandez-Caldas E, Rama R. Purification and characterization of a soybean hull allergen responsible for the Barcelona asthma outbreaks. II. Purification and sequencing of the *Gly m 2* allergen. *Clin Exp Allergy* 1997;27:424-30.
- 16 Chandra S., Beal D., Lockey R.F., **Codina R.**, Orr G.W., Astry D.W., Alidina L.W. Performance of Health Houses in warm humid climates. Proceedings of the Health Building/IAQ '97 Conference.
- 17 Chandra S., Beal D., Downing A., **Codina R.**, Lockey R.F. Mite, mite allergens and interior environmental conditions. Proceedings workshop on mites, asthma and domestic design. Wellington School of Medicine, New Zealand, November, 1997;1-26.
- 18 **Codina R.**, Lockey R.F. Possible role of molds as secondary etiologic agents of the asthma epidemics in Barcelona, Spain. *J Allergy Clin Immunol* 1998;102:318-20.
- 19 **Codina R.** Oehling A.G., Lockey R.F. Neoallergens in heated soybean hull. *Int Arch Allergy Immunol* 1998;117:120-5.
- 20 **Codina R.**, Lockey R.F., Fernandez-Caldas E., Rama R. Identification of the soybean hull allergens responsible for the Barcelona asthma outbreaks. *Int Arch Allergy and Immunol* 1999;119:69-71.
- 21 Morell F., **Codina R.**, Rodrigo M.J. Increased positivity of skin test and allergenic stability of glycerinated soybean allergen extracts. *Clin Exp Allergy*, 1999;29:388-393.
- 22 **Codina R.**, Lockey R.F. How to earn a Ph.D. in the US. *EAACI Newsletter* 1999; issues 2-3:17.

- 23 Lockey R.F., **Codina R.** The consumer and indoor allergen control. Editorial. *J Allergy Clin Immunol* 1999;104:914-6.
- 24 **Codina R.**, Lockey R.F. Environmental asthma: 9 questions physicians often ask. *Consultant* 2000;40:66-74.
- 25 **Codina R.**, Lockey R.F. Combating allergens at home: What you need to know about preventing asthma. Health guide. *Consultant* 2000;40:279-80.
- 26 **Codina R.**, Arduzzo L., Lockey R.F., Crisci C., Bertoya N. Sensitization to soybean hull allergens in subjects exposed to different levels of soybean dust inhalation in Argentina. *J Allergy Clin Immunol* 2000;105:570-6.
- 27 Arduzzo L., Crisci C., **Codina R.**, Lockey R.F., Galimany J., Marcipar A., Massara A., Strass M., Arduzzo D., Bertoya N., Medina I., Trojavchich M., Vinuesa M., Monje S. Asociación entre exposición a polvo de soja, sensibilidad alérgica y perfil de síntomas respiratorios (Association of soybean dust exposure with allergic sensitization and respiratory symptoms). *Medicina* 2001;61:1-7.
- 28 **Codina R.**, Reichmuth D., Lockey R.F., Jaen C. Ferret allergy. *J Allergy Clin Immunol*, 2001;107:927.
- 29 Fernández-Caldas E., **Codina R.**, Ledford D.K., Trudeau W.L., Lockey R.F. House dust mite, cat, and cockroach allergen concentrations in daycare centers in Tampa, Florida, USA. *Ann Allergy and Immunol* 2001;87:196-200.
- 30 **Codina R.**, Lockey R.F. Allergen Immunotherapy in Atlas of Allergic Diseases. First ed., 2002, chapter 18, pp 161-7. Lieberman P.L., Blaiss M.S. eds. Current Medicine Inc., Philadelphia.
- 31 **Codina R.**, Jaén C., Lockey R.F. Cockroach debris in purchased flour. *Allergy* 2002;57:260-1.
- 32 **Codina R.**, Arduzzo L., Lockey R.F., Crisci C., Jaen C., Bertoya N. Identification of the allergens involved in sensitization to soybean dust in a rural population in Argentina and N-terminal sequence of a major 50 KD allergen. *Clin Exp Allergy* 2002; 32: 1059-63.
- 33 **Codina R.**, Lockey R.F., Diwadkar R., Mobly L., Godfrey S. Disodium octaborate tetrahydrate (DOT) application and vacuum cleaning, a combined strategy to control house dust mites. *Allergy* 2003;58:318-24.
- 34 **Codina R.**, Arduzzo L., Lockey R.F., Crisci C., Medina I. Allergenicity of varieties of soybean. *Allergy* 2003; 58:1293-8.

- 35 **Codina R.**, Lockey R.F. Environmental asthma: 9 questions physicians often ask. Consultant 2005;45:685-92.
- 36 **Codina R.**, Ramey J.T., Lockey R.F. Allergen Immunotherapy in Atlas of Allergic Diseases. Second ed., 2005, chapter 17, pp 163-9. Lieberman P.L., Blaiss M.S. eds. Current Medicine Inc., Philadelphia.
- 37 **Codina R.** Testing for - and Analysis of - Indoor Allergens. Indoor Environmental Connections 2006;7(10):32-6.
- 38 **Codina R.**, Lockey R.F. Indoor Allergen Assessments – A Call for Universal Standards. J Allergy Clin Immunol 2007;119:518.
- 39 Horner W.E. Barnes C., **Codina R.**, Levetin E. Guide for interpreting reports from inspections / investigations of indoor mold. Rostrum. Journal of Allergy and Clinical Immunology 2008;121:592-7.
- 40 **Codina R.**, Fox R.W., Lockey R.F., DeMarco P., Bagg A. Determination of indoor levels of fungal spores by non-culturable sampling method in central Florida homes without obvious moisture problems. J Investig Allergol Clin Immunol 2008;18:156-62.

Meeting Presentations

- 1 Ricos C., **Codina R.**, Oliva G., Lopez J., Muñoz A. La variación biológica como objetivo de calidad en imprecisión analítica (Intra-individual biological variation as a quality goal in analytical imprecision). VI Meeting of the Spanish Society of Clinical Chemistry. Pamplona, Spain, September 1987.
- 2 Rodrigo M.J., Morell F., **Codina R.**, Helm R.M., Swanson M.C., Reed C.E., Schwartz S. Identification and partial characterization of the allergens involved in the asthma epidemic. IX Meeting of the European Society of Immunology. Rome, Italy, September 1988.
- 3 Morell F., Rodrigo M.J., **Codina R.**, Helm R.M., Swanson M.C., Reed C.E. Soybean antigens and asthma epidemic of Barcelona. VII Meeting of the European Society of Pulmonology. Budapest, Hungary, 1988.
- 4 Quer J., Figuera T., Garcia X., Caragol I., **Codina R.**, Curell T., Español T. Alteraciones de la respuesta humoral en la infección por el HIV por transmisión vertical (Immunoresponse alterations in subjects infected with HIV virus infection by vertical transmission). XIV Meeting of the Spanish Society of Clinical Chemistry.
- 5 **Codina R.**, Rodrigo M.J., Orriols R., Aliaga J.L., Manresa J.M., Morell F. Identification of mollusk-shell as aetiological agent in two cases of EAA. VIII

Meeting of the European Society of Pulmonology. Freiburg, Germany, 1989.

- 6 Orriols R., Manresa J.M., Aliaga J.L., Royo L., **Codina R.**, Rodrigo M.J., Morell F. Alveolitis alérgica extrínseca causada per nacar (Extrinsic allergic alveolitis caused by nacre). VII Meeting of the Catalan Society of Pulmonology. Bagur, Spain, 1989. **Awarded best oral presentation.**
- 7 Orriols R., Aliaga J.L., **Codina R.**, Manresa J.M., Rodrigo M.J., Morell F. Extrinsic allergic alveolitis by oyster-shell antigens. VIII Meeting of the European Society of Pulmonology. Freiburg, Germany, 1989.
- 8 **Codina R.**, Rodrigo M.J., Orriols R., Aliaga J.L., Manresa J.M., Morell F. Extrinsic allergic alveolitis caused by inhalation of mollusk shell dust. XIV Annual Meeting of the European Academy of Allergy and Clinical Immunology. Berlin, Germany, 1989.
- 9 **Codina R.**, Fernandez.Caldas E., Trudeau W.L., Rodrigo M.J., Morell F., Lockey R.F. Study of the possible aetiologic role of mites in asthma caused by soybean dust inhalation. XV Annual Meeting of the European Academy of Allergy and Clinical Immunology. Glasgow, United Kingdom, July 1990.
- 10 **Codina R.**, Fernandez-Caldas E., Trudeau W.L., Rodrigo M.J., Pena M., Cadahia A., Botey J., Lockey R.F. Prevalence of specific IgE to storage mites in an allergic population to house dust mites from the Barcelona area. XV Annual Meeting of the European Academy of Allergy and Clinical Immunology. Glasgow, United Kingdom, July 1990.
- 11 **Codina R.** Técnicas de laboratorio en la determinación de las subclases de la IgG (Laboratory techniques for the determination of IgG subclasses). Annual International Pulmonology Symposium, Vall d'Hebron General Hospital. Barcelona, Spain, February 1990.
- 12 De Gracia X., Bravo C., Morell F., Rodrigo M.J., **Codina R.**, Bofill J.M., Riba A., Montane M. Inmunodeficiencia humoral primaria en pacientes con EPOC (Primary humoral immunodeficiency in patients with COPD). II Symposium about chronic obstructive pulmonary disease. Badalona, Spain, February 1990.
- 13 **Codina R.**, Fernandez-Caldas E., Trudeau W.L., Rodrigo M.J., Morell F., Lockey R.F. Estudi de l'eventual paper dels acars en l'etiologia de les epidemies d'asma de Barcelona (Study of the possible role of mites as etiological agents of the Barcelona asthma outbreaks). VIII Meeting of the Catalan Society of Pulmonology. Andorra la Vella, Andorra, May 1990. **Awarded best oral presentation.**
- 14 **Codina R.** El laboratorio en el diagnóstico inmunológico de las Alveolitis alérgicas extrínsecas (Role of the laboratory in the immunologic diagnosis of extrinsic allergic alveolitis). Annual International Pulmonology Symposium, Hospital General Vall d'Hebron. Barcelona, Spain, February 1991.

- 15 Rodrigo M.J., **Codina R.** Técnicas *in vitro* de laboratorio para el estudio de las enfermedades neumológicas de base inmunológica. Caracterización de antígenos (Laboratory *in vitro* techniques for the diagnosis of pulmonary diseases with an immunologic component. Antigen characterization). VI course of advances in Pulmonology, Vall d'Hebron General Hospital. Barcelona, Spain, February 1992.
- 16 Rodrigo M.J., **Codina R.** Preparación de extractos antigénicos para los tests inmunológicos diagnósticos (Antigen extract preparation for immunologic testing). VI course of advances in Pulmonology, Vall d'Hebron General Hospital, Barcelona, Spain, February 1992.
- 17 Rodrigo M.J., **Codina R.** B Lymphocytes and complement function during starvation. V International Reunion of Parenteral and Enteral Nutrition. Lloret de Mar, Spain, March 1992.
- 18 Vendrell M., Gracia J., **Codina R.**, Miravittles M., Rodrigo M.J., Morell F. Estudi de les subclases d'IgG en les bronquiectasies d'etiologia desconeguda (Study of IgG subclasses in patients with bronchiectasis of unknown ethiology). X Meeting of the Catalan Society of Pulmonology. Barcelona, Spain, March 1992.
- 19 **Codina R.**, Rodrigo M.J., Gracia J., Bravo C., Morell F. Valors normals de les subclases d'IgG (SIgG) en una població adulta de referència i definició dels defectes d'SIgG (IgG subclass reference values in a healthy adult population and definition of IgG subclass deficiencies). X Meeting of the Catalan Society of Pulmonology. Barcelona, Spain, March 1992.
- 20 Morell F., Rodrigo M.J., **Codina R.**, Anto J.M., Sunyer J. Diagnostic de l'asma per soia (Diagnosis of soybean asthma). X Meeting of the Catalan Society of Pulmonology. Barcelona, Spain, March 1992.
- 21 **Codina R.**, Rodrigo M.J., Alegre J., Gene T., Martín N., Morell F. Specific IgG to suber and *Penicillium frequentans* in cork dust-exposed workers. XV Meeting of the European Society of Allergology and Clinical Immunology. Paris, France, May 1992.
- 22 Rodrigo M.J., De Gracia X., **Codina R.**, Bravo C., Morell F. Valores normales de las subclases de IgG (SIgG) en una población adulta de referencia. Definición de los defectes de SIgG (IgG subclass reference values in a healthy adult population and definition of IgG subclass deficiencies). XXV Meeting of the Spanish Society of Pulmonology and Thoracic Surgery. Granada, Spain, June 1992.
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