

UAB

Universitat Autònoma
de Barcelona



COST B20 Action (Mammary Gland Development, Function and Cancer)

**Joint meeting WG 1, 2, 4 and 5
10th Management Committee COST B20 meeting**

III International Workshop on Mammary Gland Biotechnology: Nutrition, Genomics and Breast Cancer

Joint Activity with “*Grup Multidisciplinari per a l’Estudi del Càncer de Mama*” (UAB), “**XX ASPECTES GENERALS I D’INVESTIGACIÓ BÀSICA EN CÀNCER DE MAMA**”.
Network “**Breast Cancer Study**”



29 September – 1 October 2005

VENUE

Universitat Autònoma de Barcelona

Casa Convalescència

St. Antoni Maria Claret, 171

08041 Barcelona · Spain

www.uab-casaconvalescencia.org

Local organisers

Dr. Eduard Escrich and Dra. Montserrat Solanas
(Medical Physiology Unit. School of Medicine)

Dr. Armand Sánchez (Dep. of Animal and Food Science)

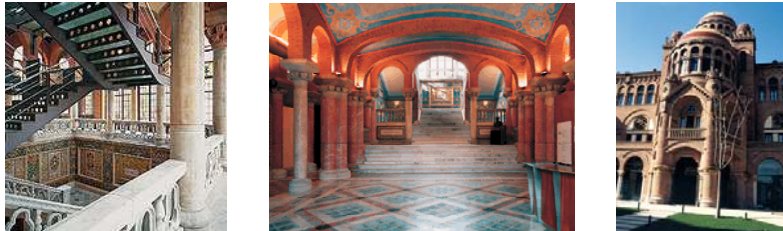
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Venue of the COST B20 Meeting

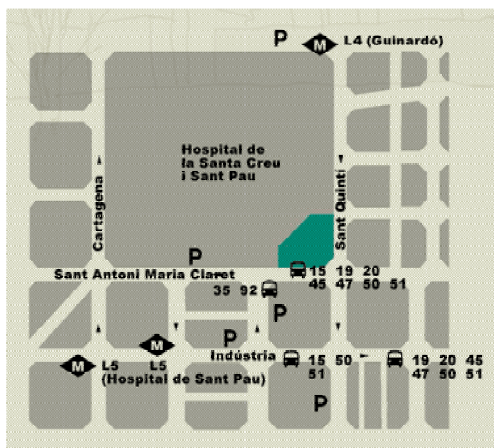
Casa Convalescència, an example of Catalan modernist architecture and headquarters of the Universitat Autònoma de Barcelona's Fundació Doctor Robert, located in an annex of the Hospital de Sant Pau in the city of Barcelona, dating back to 1905 which were declared a UNESCO World Heritage Site in 1997



Getting there

Casa Convalescència is located on the corner of Carrer St Quinti and Carrer Sant Antoni M. Claret in Barcelona

- **Parking Garage:** "Hospital de Sant Pau"
- **Metro Station:** "Hospital de Sant Pau" on the Blue Line (Line 5)
- **Buses:** 15, 19, 20, 35, 45, 47, 50, 51, 92.



Useful links:

<http://pdf.callejerohoy.com/metro/barcelona.pdf> (metro lines)

http://www.tmb.net/vullnar/en_US/vullnar.jsp (bus lines)

<http://www.aena.es/> (Barcelona Airport)

<http://www.barcelona-on-line.com/mapa/index.htm> (City map)

<http://www.bcn.es/english/ihome.htm> (Barcelona city Council, general information)

<http://www.barcelonaturisme.com> (Barcelona Tourist office)

FORMAT	<p>The meeting program is based on three sessions related to the thematic or technical interests of COST Action B20. Presentations will be 35 minutes including discussion time.</p> <p>Display space in the meeting room will be provided for Posters presented by participants.</p>
PROGRAM	<p>The sessions will cover the following topics:</p> <ol style="list-style-type: none"> 1.- Nutrition, milk composition and health. 2.- Genetics, milk composition and health. 3.- Dietary Factors and Breast Cancer (the session devoted to this topic will be a joint activity with the “<i>Grup Multidisciplinari per a l’Estudi del Càncer de Mama</i>” (UAB).
OBJECTIVE	<p>To stimulate interdisciplinary interaction between scientists working on the nutritional and genetics fundamentals of the milk composition and the effects of dietary factors on mammary gland function in normal and disease condition. Through the involvement of epidemiologists and clinicians, we will have the opportunity to link basic biology with clinical practice, and to provide biological interpretation of epidemiological data. The meeting will be a joint meeting of Working Groups 1 (Mammary Development), 2 (Milk components, nutrition and health), 4 (Genomics, proteomics and bioinformatics) and 5 (Epidemiology) of the Action.</p>
DURATION	<p>3 days:</p> <p>Thursday 29 afternoon and Friday 30 September – Scientific sessions.</p> <p>Saturday 1st October – Meeting of the COST B20 Management Committee</p>

SCIENTIFIC PROGRAM

Thursday, 29 September 2005

15:00 – 15:15 **Welcome and Introduction**
Dr. Armand Sánchez, Dr. Eduard Escrich, Dra. Montserrat Solanas. Universitat Autònoma de Barcelona (Spain).

1.- Nutrition, Genetics, milk composition and health (I) Chair: Dr. Armand Sánchez.

WG 4 SESSION

15:15 – 15:50 **PPARGC1A and DGAT1: genes with effect on milk fat yield and concentration in cattle.**
Dr. Christa Kühn. Research Institute for the Biology of Farm Animals (FBN). Dummerstorf (Germany).

15:50 – 16:25 **Effects of the bovine ABCG2 gene on milk yield and composition.**
Dr. Eyal Seroussi. The Agricultural Research Organization (ARO), Volcani Center. Dept. of Quantitative and Molecular Genetics, Institute of Animal Science. Bet-Dagan (Israel).

16:25 – 17:00 **Genetic polymorphism of goat CSN1S1 and CSN1S2 and their impact on milk composition.**
Dr. Gianfranco Cosenza. Dip. Scienze Zootecniche ed Ispezione degli Alimenti. Università degli Studi di Napoli "Federico II" Portici (Italy).

17:00 – 17:30 Coffee Break

WG 1 SESSION

17:30 – 18:05 **Spatial organisation of a mammary-specific gene: discrepancies between in vivo and in vitro analysis.**
Dr. Ramona N. Pena. Gene Expression and Development, Roslin Institute, Roslin, Scotland, (UK).

18:05 – 18:40 **Expression and nutritional regulation of lipogenic genes in the ruminant lactating mammary gland.**
Dr. Laurence Bernard. Unité de Recherche sur les Herbivores, Institut National de la Recherche Agronomique, Theix, (France).

18:40 – 19:00 **General discussion**

19:00 Sagrada Familia (Gaudi) tour

Friday, 30 September 2005

2 – Dietary Factors and Breast Cancer Chair: Dr. Eduard Escrich

WG 5 SESSION

- 9:00 – 9:35 **Nutrition and breast cancer: epidemiology.**
Dr. J. M. Martín Moreno. Department of Preventive Medicine and Public Health, University of Valencia, (Spain) and World Health Organization - Europe, Copenhagen, (Denmark).
- 9:35 – 10:10 **Modulation of oxidative stress by dietary lipids in breast cancer.**
Dr. M^a Carmen Ramírez-Tortosa and Dr. José Luís Quiles. Department of Biochemistry and Molecular Biology, Institute of Nutrition and Food Technology, University of Granada, Granada, (Spain).
- 10:10 – 10:45 **Antiproliferative properties of *Brassica* in human breast cancer cell lines.**
Dr Mirko Paiardini. Institute of Biochemistry, University of Urbino (Italy).
- 10:45 – 11:15 Coffee Break
- 11:15 – 11:50 **Effect of endocrine disruptors on normal and neoplastic mammary gland**
Drs. Raquel Moral^{1,2}, I. Russo², J. Russo². ¹:Universitat Autònoma de Barcelona, Barcelona, (Spain); ²: Fox Chase Cancer Center, Philadelphia, (USA).
- 11:50 – 12:25 **Dietary n-6 and n-9 lipids and breast cancer.**
Drs. Eduard Escrich and Montserrat Solanas. Unit of Medical Physiology, Department of Cell Biology, Physiology and Immunology, School of Medicine, Universitat Autònoma de Barcelona, Barcelona, (Spain).
- 12:25 – 13:00 **The role of n-3 fatty acids and antioxidant compounds of Mediterranean diet in relation to breast cancer.**
Dr. Francesco Visioli. Department of Pharmacological Sciences, University of Milan, (Italy).
- 13:00 – 13:20 **General discussion**
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- 13:20 – 15:30 Lunch
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3.- Nutrition, Genetics, milk composition and health (II) Chair Dr. Antonella Baldi

WG 2 SESSION

- 15:30 – 16:05 **Biological functions of parity-induced mammary epithelial cells.**
Dr. Kay-Uwe Wagner. Eppley Institute for Research in Cancer and Allied Diseases. University of Nebraska Medical Center, Nebraska, Omaha, NE (USA).
- 16:05 – 16:40 **Interactions between forages and dietary lipids on trans and conjugated fatty acids in cow and goat milk.**
Dr. Yves Chilliard. Unité de Recherche sur les Herbivores, Equipe Tissu Adipeux et Lipides du Lait (TALL), INRA-Theix, (France).
- 16:40 – 17:15 **Metabolism of CLA in humans, possible mechanism of action for their biological activities.**
Dr. Sebastiano Banni. Università degli Studi di Cagliari, Dipartimento di Biologia Sperimentale, Monserrato, Cagliari (Italy).
- 17:15 – 17:45 Coffee Break

JOINT WG 2 and 4 SESSION

- 17:45 – 18:20 **Breast cancer: Role of polymorphisms in biotransformation enzymes.**
P. Soucek. Group of Biotransformations, Center of Occupational Diseases, National Institute of Public Health, Praha (Czech Republic).
- 18:20 – 18:55 **Endogenous production of n-3 and n-6 fatty acids in mammalian epithelial cells.**
Dr. Juan Fernando Medrano. Department of Animal Science, University of California, Davis, (USA).
- 18:55 – 19:30 **High level expression of TNAP in the milk of transgenic rabbits.**
Dr. Zsuzsanna Bősze. Department of Animal Biology, Agricultural Biotechnology Center, Godollo, (Hungary).
- 19:30 – 19:50 **General discussion**

20:30 – 23:30 Dinner
