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## BIOGRAPHICAL SKETCH

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NAME Ramon Bataller	POSITION TITLE Associate Professor		
COMMONS USER NAME (credential, e.g., agency login) RAMON_BATALLER			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Valencia School of Medicine, Valencia, Spain	MD	1990	Gastroenterology
Resident, Liver and Gastroenterology Units, Hospital Clínic, Barcelona	Residency	1994	Gastroenterology

### A. Personal Statement

Dr. Bataller graduated in Medicine at the University of Valencia in 1989. He completed his residency in Gastroenterology at the Hospital Clínic of Barcelona from 1991 to 1994. Since that time he has become interested in the role of hepatic stellate cell activation on portal hypertension and liver fibrosis. He worked on the effects of the renin-angiotensin system on hepatic stellate cell biology and in liver fibrosis. Between 2000 and 2003, Dr. Bataller completed a research fellowship in hepatology at UNC-Chapel Hill with Prof. David A. Brenner. During this period, he investigated the role of angiotensin II and NADPH oxidase in liver fibrosis and the molecular mechanisms that mediate HCV-induced fibrosis. Since 2003, he has worked as a senior physician in the Liver Unit of the Hospital Clínic in Barcelona where he coordinated the management of patients with alcoholic liver disease. Since 2004, he has led the "Laboratory of Liver Fibrosis" at IDIBAPS, a research center associated with the Hospital Clínic. During the last 5 years, he has been working to develop new therapies for alcoholic liver fibrosis and has performed translational investigations on human samples to identify molecular determinants of alcoholic hepatitis. In November 2011, he joined UNC as an associate professor of Medicine and Nutrition and also joined the Bowles Center for Alcohol Studies. Dr. Bataller's research will focus on the molecular mechanisms of steatohepatitis in order to identify new targets for therapy.

### B. Positions and Honors

1991-1994 Resident, Liver and Gastroenterology Units, Hospital Clínic, Barcelona  
1994-1998 Faculty member, Emergency Room, Hospital Clínic, Barcelona  
1995 Certified diploma of Spanish Board of Gastroenterology  
1995 Visiting Fellow, Università degli Studi di Firenze, Florence, Italy  
1995-2000 Research Fellow, Liver Unit, Hospital Clínic, Barcelona  
1997 Visiting Fellow, Free University of Brussels, Brussels, Belgium  
2000-2003 Postdoctoral Fellow, University of North Carolina at Chapel Hill  
2003- Senior Specialist, Liver Unit, Hospital Clínic, Barcelona  
2003- Research Scientist, Institut d'Investigacions Biomèdiques August Pi I Sunyer (IDIBAPS)  
2011- Associate Professor, University of North Carolina at Chapel Hill (starting 11/1/2011)

### Other Experience and Professional Memberships

Member, Asociación Española para el Estudio del Hígado.  
Member, European Association for the Study of Liver Diseases (EASL)  
Member of the Scientific Committee, Governing Board, EASL (2009-2011)  
Member, International Society for Research of Hepatic Sinusoid (ISRHS)

### Editorial Boards

Gastroenterology (2007-2010)  
World Journal of Gastroenterology (2006-present)  
Gut (Associate Editor 2008-2011)  
Gastroenterology Research and Practice (2009-present)

## Honors and Awards

1. "Premio de Ayuda al Estudio". Caja de Ahorros de Alicante. 1986.
2. "Beca de Introducción a la Investigación". Consejo Superior de Investigaciones Científicas. With the work entitled: "Diferenciación sexual del Sistema Nervioso Central" in the "Instituto de Neurobiología Ramón y Cajal". Madrid. 1989.
3. "Beca de Iniciación a la Investigación". Conselleria de Cultura, Educació i Ciència de la Generalitat Valenciana. "Determinación de HBV-DNA en hepatopatías crónicas virales tratadas con Interferon a recombinante". Valencia. 1990.
4. "Beca predoctoral". Consell Interdepartamental de Recerca i Tecnologia de la Generalitat de Catalunya (CIRIT). Barcelona. 1996-1999.
5. Beca final Residencia N°1 (Premio Emili Letang). Hospital Clínic of Barcelona. 1994.
6. Best communication on portal hypertension, 32<sup>nd</sup> Annual Meeting of the European Association for the Study of the Liver. London, 1997. R Bataller, P Ginès N, JM Nicolás, MN Görbig, E Garcia-Ramallo, M Pinzani, V Arroyo, J Rodés. Human hepatic stellate cells contain voltage-operated calcium channels.
7. Best communication on portal hypertension, 34<sup>th</sup> Annual Meeting of the European Association for the Study of the Liver. Napoli, 1999. N Görbig, P Ginès, R Bataller, E Garcia-Ramallo, J Ros, W Jiménez, JM Nicolás, V Arroyo, J Rodés. Human hepatic stellate cells release the vasodilator peptide adrenomedullin. Potential autocrine factor in the regulation of stellate cell contractility.
8. Best poster presentation, 34<sup>th</sup> Annual Meeting of the European Association for the Study of the Liver. Napoli, 1999. R Bataller, P Ginès, X Gasull, MN Görbig, E Garcia-Ramallo, JM Nicolás, A Gual, V Arroyo, J Rodés. Phenotypic transformation of hepatic stellate cells into myofibroblasts results in the expression of voltage-operated calcium channels.
9. Premio extraordinario de la Tesis Doctoral, Facultat de Medicina, Universitat de Barcelona, 2000.
10. "Beca de la Asociación Española para Estudio de las Enfermedades del Hígado" for postdoctoral stay in USA. Madrid, Spain, 2000-2002.
11. Postdoctoral Research Fellowship Award from the American Liver Foundation. "Investigation of the cellular and molecular mechanisms of hepatitis C virus-induced liver fibrosis". Chapel Hill, NC, USA, 2003.

## C. Selected Peer-reviewed Publications

### Most relevant to the current application

1. Colmenero J, **Bataller R**, Sancho-Bru P, Bellot P, Miquel R, Moreno M, Jares P, Bosch J, Arroyo V, Caballería J, Ginès P Hepatic expression of candidate genes in patients with alcoholic hepatitis: correlation with disease severity. *Gastroenterology* 2007;132:687-97.
2. Domínguez M, Rincón D, González-Abraldes J, Miquel R, Colmenero J, Bellot P, García-Pagan JC, Fernández-Caspiestrán R, Moreno M, Bañares R, Arroyo V, Caballería J, Ginès P, **Bataller R**. A new scoring system allows prognostic stratification in patients with alcoholic hepatitis. *Am J Gastroenterol* 2008;103:2747-56.
3. Domínguez M, Miquel R, Colmenero J, Moreno M, García-Pagán JC, Bosch J, Arroyo V, Ginès P, Caballería J, **Bataller R**. Hepatic expression of CXC chemokines predicts portal hypertension and survival in patients with alcoholic hepatitis. *Gastroenterology* 2009;136:1639-50.
4. Altamirano J, Fagundes C, Domínguez M, García E, Michelena J, Cárdenas A, Guevara M, Pereira G, Torres-Vigil K, Arroyo V, Caballería J, Ginès P, **Bataller R**. Acute Kidney Injury is an Early Predictor of Mortality for Patients with Alcoholic Hepatitis. *Clin Gastroenterol Hepatol* 2012;10:65-7.
5. Sancho-Bru P, Altamirano JT, Rodrigo-Torres D, Coll M, Millan C, Lozano JJ, Miquel R, Arroyo V, Caballería J, Ginès P, **Bataller R**. Liver progenitor cell markers correlate with liver damage and predict short-term mortality in patients with alcoholic hepatitis. *Hepatology* 2012 (in press).
6. Affo, S, Domínguez M, Lozano JJ, Sancho-Bru P, Rodrigo-Torres D, Morales-Ibanez O, Moreno M, Millan C, Loaeza-del-Castillo A, Altamirano J, García-Pagan JC, Arroyo V, Ginès P, Caballería J, **Bataller R**. Transcriptome Analysis Identifies Fn14, a TNF Superfamily Receptor, as a Therapeutic Target in Alcoholic Hepatitis. *Gut* 2012 (in press).

## **Additional recent publications of importance to the field (in chronological order)**

1. **Bataller R**, Ginès P, Nicolás JM, Görbig MN, Garcia-Ramallo E, Bosch J, Arroyo V, Rodés J. Angiotensin II induces contraction and proliferation of human hepatic stellate cells. *Gastroenterology* 2000;118:1149-1156.
2. **Bataller R**, Ginès P, Sancho-Bru P, Lora JM, Al-Garawi A, Solé M, Nicolás JM, Jiménez JM, Weich N, Gutierrez-Ramos JC, Arroyo V, Rodés J. Activated human hepatic stellate cells express the components of the renin-angiotensin system and synthesize angiotensin II. *Gastroenterology* 2003;125:117-125.
3. **Bataller R**, Schwabe RF, Choi YH, Yang L, Paik YH, Lindquist J, Qian T, Schoonhoven R, Hagedorn CH, Lemasters JJ, Brenner DA. NADPH oxidase signal transduces angiotensin II in hepatic stellate cells and is critical in hepatic fibrosis. *J Clin Invest* 2003;112:1383-1394.
4. **Bataller R**, Paik YH, Lindquist JN, Lemasters JJ, Brenner DA. Hepatitis C virus core and nonstructural proteins induce fibrogenic effects in hepatic stellate cells. *Gastroenterology* 2004;126:529-540.
5. Moreno M, Ramalho LN, Sancho-Bru P, Ruiz-Ortega M, Ramalho F, Abraldes JG, Colmenero J, Dominguez M, Egido J, Arroyo V, Ginès P, **Bataller R**. Atorvastatin attenuates angiotensin II-induced inflammatory and pro-fibrogenic actions in the liver. *Am J Physiol* 2009;296:G147-56.
6. Kluwe J, Pradere JP, Gwak GY, Mencin A, De Minicis S, Osterreicher CH, Colmenero J, **Bataller R**, Schwabe RF. Modulation of Hepatic Fibrosis by c-Jun-N-terminal Kinase Inhibition. *Gastroenterology* 2010;138:347-59.
7. Moreno M, Gonzalo T, Kok RJ, Sancho-Bru P, van Beuge M, Swart J, Prakash J, Temming K, Fondevila C, Beljaars L, Lacombe M, van der Hoeven P, Arroyo V, Poelstra K, Brenner DA, Ginès P, **Bataller R**. Reduction of advanced liver fibrosis by short-term targeted delivery of an angiotensin receptor blocker to hepatic stellate cells in rats. *Hepatology* 2010;51:942-52.
8. Moreno M, Chaves JF, Sancho-Bru P, Ramalho F, Ramalho LN, Mansego ML, Ivorra C, Dominguez M, Conde L, Millán C, Marí M, Colmenero J, Lozano JJ, Jares P, Vidal J, Forns X, Arroyo V, Caballería J, Ginès P, **Bataller R**. Ghrelin attenuates hepatocellular injury and liver fibrogenesis in rodents and influences fibrosis progression in humans. *Hepatology* 2010;51:974-85.
9. Azzalini L, Ferrer E, Ramalho LN, Moreno M, Domínguez M, Colmenero J, Peinado VI, Barberà JA, Arroyo V, Ginès P, Caballería J, **Bataller R**. Cigarette smoking exacerbates nonalcoholic fatty liver disease in obese rats. *Hepatology* 2010;51:1567-76.
10. Altamirano J, Higuera-de laTijera F, Duarte-Rojo A, Martínez-Vázquez MA, Abraldes JG, Herrera-Jiménez LE, Michelena J, Zapata L, Perez-Hernández J, Torre A, Gonzáles-González JA, Cardenas A, Dominguez M, Arroyo V, Ginès P, Caballería J, **Bataller R**. The amount of alcohol consumption negatively impacts short-term mortality in Mexican patients with alcoholic hepatitis. *Am J Gastroenterol* 2011;106:1472-80.
11. Dapito DH, Mencin A, Gwak GY, Pradere JP, Jang MK, Mederacke I, Caviglia JM, Khiabanian H, Adeyemi A, **Bataller R**, Lefkowitz JH, Bower M, Friedman R, Sartor RB, Rabadan R, Schwabe RF. Promotion of Hepatocellular Carcinoma by the Intestinal Microbiota and TLR4. *Cancer Cell* 2012;21:504-16.

## **C. Research Support**

### **Ongoing Research Support**

(FIS)

2012-2014

Grant from the Spanish Ministry of Science and Innovation Government

*Liver Disease in Patients with Abusive Alcohol Consumption: Identification of Genetic and Environmental Factors and New Therapeutic Targets*”.

Role: **Principal investigator**

HEALTH-2010-4.2.9-2

2011-2014

*Hepatic Microfluidic Bioreactor (HEMIBIO)*

Role: Co-Investigator

### **Completed Research Support**

SAF99-0014

1997-1999

Grant from the Spanish Ministry of Science and Innovation Government

*Proinflammatory and Fibrogenic Functions of Hepatic Stellate Cells*

Role: **Principal Investigator**

SMSIGI GRANT 2000-2002  
Grant from the Spanish Ministry of Science and Innovation Government  
*Contractile and Fibrogenic Functions of Hepatic Stellate Cells*  
Role: **Investigator**

NIH GRANT 2003-2007  
(5 R01 AA015055)  
*Hepatic Stellate Cell Activation Induced by Hepatitis C Virus*  
Role: **Co-Investigator** (PI: Brenner)

NIH GRANT 2004-2008  
(1R01DK072237-01)  
*Angiotensin II and NADPH Oxidase in Hepatic Fibrosis*  
Role: **Collaborator** (PI: Brenner)

(SAF) 2005-2008  
Grant from the Spanish Ministry of Science and Innovation Government  
*Cellular and Molecular Mechanisms of Hepatitis C-Induced Liver Fibrosis*  
Role: **Principal Investigator**

FP6-2005-LIFESCIHEALTH-7/LSH-1.2.1-3. 2006-2009  
*Development of Innovative Assays and Locally Acting Therapies Aiming at Critical Kinases in Hepatic and Renal Fibrosis (DIALOK)*  
Role: **Co-Investigator** (PI: Brenner)

(FIS) 2009-2011  
Grant from the Spanish Ministry of Science and Innovation Government  
*Translational Research in Patients with Chronic Liver Diseases: Development of New Prognostic Methods and Identification of Novel Targets for Therapy*  
Role: **Principal investigator**

PET2008\_0304 2009-2011  
Grant from the Spanish Ministry of Science and Innovation Government  
*Development of a Genetic Test to Predict the Progression of Liver Fibrosis in Patients with Chronic Hepatitis C*  
Role: **Principal investigator**