

CURRICULUM VITAE

1. PERSONAL DATA

Full name Rodrigo Gouveia Vasconcelos Rodrigues Liberal

Birth place and date Porto; 24, September, 1982

Nationality Portuguese

National identity card 12155961

Cédula Profissional da Ordem dos Médicos (Portuguese Medical Council) number 45842

General Medical Council UK registration number 6156150

Institutional address Institute of Liver Studies, King's College London School of Medicine at King's College Hospital, Denmark Hill, London SE5 9RS, UK & Department of Gastroenterology and Hepatology, Centro Hospitalar São João, Alameda Prof. Hernâni Monteiro, 4200-319 Porto, Portugal

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2. ACADEMIC DEGREES

Year	Academic degree	Institution	Classification
2012	PhD in Molecular Medicine	Faculdade de Medicina da Universidade do Porto	Approved by unanimity with praise and distinction
2007	Post-graduation in Molecular and Oncology Medicine	Faculdade Medicina da Universidade do Porto	Approved
2006	MD	Faculdade de Medicina da Universidade do Porto	16/20

3. CLINICAL ACTIVITY

April 2014 – Ongoing: Gastroenterology and Hepatology registrar, Department of Gastroenterology and Hepatology, Centro Hospitalar São João, Porto, Portugal

January 2012 – December 2012: Honorary Clinical Fellow, Liver Unit, Institute of Liver Studies, King's College Hospital, London, UK

February 2008 – June 2009 & January 2013 – June 2013: Internal Medicine registrar, Hospital de Santo António, Porto, Portugal

January 2007 – January 2008: General Internship (comprised Internal Medicine, General Surgery, Paediatrics, Obstetrics, and General Practice rotations), Centro Hospitalar São João, Porto, Portugal

4. RESEARCH ACTIVITY

September 2012 – Ongoing : Visiting Senior Lecturer, Institute of Liver Studies, King's College London, London, UK

January 2013 – December 2014 : Student of the Harvard Medical School - Portugal Program's 2013 Clinical Scholars Research Training (CSRT) Certificate Program.

July 2013 – December 2014 : Post-Doctoral Clinical Research Fellow, Institute of Liver Studies, King's College London, London, UK

June 2009 – July 2012: Ph.D. Student, Medical School of Porto University, Portugal and King's College London, London, UK

5. TEACHING

September 2012 – Ongoing: Visiting Senior Lecturer – King's College London School of Medicine, London, UK

January 2016 – ongoing: Lecturer – Faculty of Medicine, University of Porto, Portugal

June 2015 – ongoing: Invited Faculty – World Gastroenterology Organization (WGO) Porto Training Center, Porto, Portugal

May 2014: Invited Professor (Clinical Immunology) – Faculty of Medicine, University of Porto, Portugal

May 2013: Invited Professor (Clinical Immunology) – Faculty of Medicine, University of Porto, Portugal

January 2013 – June 2013: Lecturer (Clinical Medicine) – Biomedical Sciences Institute, University of Porto, Portugal

September 2008 – August 2009: Lecturer (Medical Semiology) – Biomedical Sciences Institute, University of Porto, Porto, Portugal.

6. AREA OF SCIENTIFIC ACTIVITY

Liver immunopathology. Liver-gut axis.
Autoimmune liver diseases. Liver transplantation.
Novel therapeutic approaches for pediatric and adult autoimmune liver diseases.
Liver involvement in inflammatory bowel disease.
Complications of acute and chronic liver diseases.

7. DOMAIN OF SPECIALISATION

Domain of specialisation: Gastroenterology. Hepatology. Transplantation Medicine.

Present research interests: Cellular immune response in autoimmune hepatitis, primary sclerosing cholangitis, primary biliary cirrhosis, and overlap syndromes. IgG4-related sclerosing cholangitis.

Regulatory T cell therapy for patients with autoimmune hepatitis.

Role of $\beta 7$ integrins in the pathogenesis of autoimmune liver diseases and potential role of $\beta 7$ antagonists as tailored treatment for patients with autoimmune liver disease.

Tolerance/rejection mechanisms in liver transplantation. Autoimmune liver diseases post liver transplantation.

Inflammatory bowel disease. Liver/gut axis immunology.

8. AWARDS

April 2014: EASL Young Investigator Award

April 2013: EASL Young Investigator Award

April 2012: EASL Young Investigator Award

December 2011: EASL Young Investigator Award

November 2011: VIIIth International Symposium on Familial Amyloidotic Polyneuropathy Young Investigation Award

November 2011: British Society for Immunology (BSI) Travel Award

April 2011: EASL Young Investigator Award

September 2010: British Association for the Study of the Liver (BASL) Travel Award

November 2010: American Association for Study of Liver Diseases (AASLD) Presidential Poster Distinction

April 2010: European Association for the Study of the Liver (EASL) Young Investigator Award

9. SCIENTIFIC SOCIETIES

American Association for the study of the Liver (AASLD)

British Association for the Study of the Liver (BASL)

British Society for Immunology (BSI)

European Association for the Study of the Liver (EASL) – member of the Young Investigators (YI) Concerted Action Group (CAG) since 2013 and YI CAG representative since 2016

International Autoimmune Hepatitis Group (IAIHG)

10. SELECTED PEER-REVIEWED PUBLICATIONS

1.Liberal R, Longhi MS, Mieli-Vergani G, Vergani D (2011) "Pathogenesis of autoimmune hepatitis" *Best Pract Res Clin Gastroenterol* 25(6):653-64

2.Liberal R, Longhi MS, Grant CR, Mieli-Vergani G, Vergani D (2012) "Autoimmune hepatitis after liver transplantation" *Clin Gastroenterol Hepatol* 10(4):346-53

3.Liberal R, Grant CR, Holder B, Ma Y, Mieli-Vergani G, Vergani D, Longhi MS (2012) "The impaired immune regulation of autoimmune hepatitis is linked to a defective Galectin-9/Tim-3 pathway." *Hepatology* 56(2):677-86

4.Longhi MS, Liberal R, Holder B, Robson SC, Ma Y, Mieli-Vergani G, Vergani D (2012) "Inhibition of Interleukin-17 Promotes Differentiation of CD25- Cells into Stable T Regulatory Cells in Patients with Autoimmune Hepatitis". *Gastroenterology* 142(7): 1526-1535.e6

5.Liberal R, Vergani D. "Effect of ethnicity on the clinical presentation and outcome of autoimmune hepatitis" (2012). *Expert Rev Gastroenterol and Hepatol* 6(3): 267-9

6.Liberal R, Grant CR, Mieli-Vergani G, Vergani D. "Autoimmune hepatitis: A Comprehensive review" (2013). *J Autoimmun.* 41(3): 126-39

7.Liberal R, Zen Y, Mieli-Vergani G, Vergani D. "Liver transplantation and autoimmune liver diseases". (2013) *Liver Transpl.* 19(10): 1065-77

8.Zen Y, Liberal R, Nakanuma Y, Heaton N, Portmann B. "Possible involvement of CCL1-CCR8 interaction in lymphocytic recruitment in IgG4-related sclerosing cholangitis." (2013) *J Hepatol.* 59(5): 1059-64

9.Grant CR, Liberal R, Holder BS, Cardone J, Ma Y, Robson SC, Mieli-Vergani G, Vergani D, Longhi MS. "Dysfunctional CD39POS regulatory T cells and aberrant control of T helper type 17 cells in autoimmune hepatitis." (2014) *Hepatology.* 59(3): 1007-15

- 10.Liberal R**, Grant CR, Sakkas L, Bizzaro N, Bogdanos DP. "Diagnostic and clinical significance of anti-centromere antibodies in primary biliary cirrhosis." (2013) *Clin Res Hepatol Gastroenterol*. 37(6): 572-85
- 11.Floreani A, Liberal R**, Vergani D, Mieli-Vergani G. "Autoimmune hepatitis: Contrasts and comparisons in children and adults - A comprehensive review." (2013) *J Autoimmun*. 46: 7-16
- 12.Liberal R**, Mieli-Vergani G, Vergani D. "Clinical significance of autoantibodies in autoimmune hepatitis." (2013) *J Autoimmun*. 46: 17-24
- 13.Liberal R**, Grant CR, Longhi MS, Mieli-Vergani G, Vergani D. "Diagnostic criteria of autoimmune hepatitis." (2014) *Autoimmun Rev*. 13(4-5): 435-40
- 14.Holder BS, Grant CR, Liberal R**, Ma Y, Heneghan MA, Mieli-Vergani G, Vergani D, Longhi MS. "Retinoic acid stabilizes antigen-specific regulatory T-cell function in autoimmune hepatitis type 2." (2014) *J Autoimmun*. 53:26-32
- 15.Casal Moura M, Liberal R**, Cardoso H, Horta E Vale AM, Macedo G. "Management of autoimmune hepatitis: Focus on pharmacologic treatments beyond corticosteroids." (2014) *World J Hepatol*. 6(6):410-8
- 16.Grant CR, Liberal R**, Ma Y, Robson SC, Mieli-Vergani G, Vergani D, Longhi MS. ". Reply: To PMID 23787765." (2015) *Hepatology*. 61(2):737-8
- 17.Massinha P, Nunes N, Liberal R**, Ávila F, Santos V, Rego A, Pereira JR, Paz N, Duarte MA. "Usefulness of direct peroral cholangioscopy in the management of intrahepatic lithiasis." (2014) *Endoscopy*. 46 Suppl 1 UCTN:E553
- 18.Grant CR, Liberal R**, Mieli-Vergani G, Vergani D, Longhi MS. Regulatory T-cells in autoimmune diseases: challenges, controversies and--yet--unanswered questions. (2015) *Autoimmun Rev* 14(2):105-16
- 19.Liberal R**, Grant CR, Baptista R, Macedo G. "Porto-pulmonary hypertension: a comprehensive review". (2015) *Clin Res Hepatol Gastroenterol*. 39(2):157-67
- 20.Liberal R**, Grant CR, Longhi MS, Mieli-Vergani G, Vergani D. "Regulatory T cells: Mechanisms of suppression and impairment in autoimmune liver disease." (2015) *IUBMB Life*. 67(2):88-97
- 21.Liberal R**, Grant CR, Holder BS, Cardone J, Martinez-Llordella M, Ma Y, Heneghan MA, Mieli-Vergani G, Vergani D, Longhi MS. "In autoimmune hepatitis type 1 or the autoimmune hepatitis-sclerosing cholangitis variant defective regulatory T-cell responsiveness to IL-2 results in low IL-10 production and impaired suppression." (2015) *Hepatology*. 62(3):863-75
- 22.Liberal R**, Vergani D, Mieli-Vergani G. "Update on Autoimmune Hepatitis." (2015) *J Clin Transl Hepatol* 3(1):42-52
- 23.Liberal R**, Vergani D, Mieli-Vergani G. "Paediatric Autoimmune Liver Disease." (2015) *Dig Dis*. 33 Suppl 2:36-46"
- 24.Liberal R**, Selmi C, Gershwin ME. "Diego and Giorgina Vergani: The two hearts of translational autoimmunity." (2016) *J Autoimmun*. 66:1-6
- 25.Liberal R**, Mieli-Vergani G, Vergani D. "Autoimmune hepatitis: From mechanisms to therapy." (2016) *Rev Clin Esp*
- 26.Liberal R**, Grant CR, Ma Y, Csizmadia E, Jiang ZG, Heneghan MA, Yee EU, Mieli-Vergani G, Vergani D, Robson SC, Longhi MS. "CD39 mediated regulation of Th17-cell effector function is impaired in juvenile autoimmune liver disease." (2016) *J Autoimmun*
- 27.Liberal R**, Grant CR. "Cirrhosis and autoimmune liver disease: current understanding." (2016) *World J Hepatol*
- 28.Liberal R**, Mieli-Vergani G, Vergani D. "Contemporary issues and future directions in autoimmune hepatitis." (2016) *Expert Rev Gastroenterol and Hepatol*
- 29.Liberal R**, Krawitt EL, Manns MP, Vierling JM, Mieli-Vergani G, Vergani D. "Cutting edge issues in autoimmune hepatitis." (2016) *J Autoimm*
- 30.Liberal R**, Vergani D, Mieli-Vergani G. "Recurrence of autoimmune liver disease and inflammatory bowel disease after pediatric liver transplantation." (2016) *Liver Transp*
- 31.Liberal R**, Grant CR, Ma Y, Mieli-Vergani G, Vergani D, Longhi MS. "Modulation of cytokine milieu and beneficial effects on Treg regulatory properties in autoimmune liver disease." (2016) *Submitted*

11. CHAPTERS IN BOOKS

- 1. Liberal R**, Vergani D, Mieli-Vergani G (2013) "Treatment of patients tolerant to hepatitis B virus" in "Chronic hepatitis B and C" 1st Edition, Edited by Annarosa Floreani, Minerva Medica
- 2.Vergani D, Liberal R**, Mieli-Vergani G (2014) "Autoimmune hepatitis" in "Liver Immunology" 3rd Edition, Edited by Eric Gershwin, John Vierling and Michael Manns, Elsevier
- 3.Mieli-Vergani G, Liberal R**, Vergani D (2014) "Pediatric Liver Diseases" in "Liver Immunology" 3rd Edition, Edited by Eric Gershwin, John Vierling and Michael Manns, Elsevier
- 4.Liberal R**, Mieli-Vergani G, Vergani D (2014) "Autoantibodies in autoimmune hepatitis" in "The Autoantibodies" 3rd Edition, edited by Eric Gershwin, Yehuda Shoenfeld, and Pierluigi Meroni, Elsevier

12. PEER-REVIEW

Abstract Reviewer for EASL International Liver Congress 2014-2017

Clinical and Experimental Immunology
Clinics & Research Hepatololy Gastroenterololgy
Expert Reviews in Gastroenterology and Hepatology
Genes and Immunity
Hepatology

13. EDITORIAL BOARD MEMBER

World Journal of Hepatology

14. INVITED LECTURES

Invited lectures:

1. "Reduced expression of TIM3 renders CD4 cells less amenable to immune-regulation in autoimmune hepatitis", 7th International Postgraduate Conference, Hradec Kralove, Czech Republic, 2010
2. "Role of TIM-3/galectin-9 pathway in autoimmune hepatitis", Academic Seminar Programme, King's College London, London, UK, 2011
3. "De-novo autoimmune hepatitis following liver transplantation for familial amyloidotic polyneuropathy", VIIIth International Symposium on Familial Amyloidotic Polyneuropathy, Kumamoto, Japan, 2011.
4. "Rejection or de novo autoimmunity. Which challenges?", XI Portuguese and Brazilian Congress on Transplantation, Coimbra, Portugal, 2012
5. "Autoimmune Hepatitis", I Clinical Preceptorship Program, Hospital de São João, Porto, Portugal, 2013
6. "TIM3 effector cells in autoimmune hepatitis", 12th European Congress of Internal Medicine, Prague, Czech Republic, 2013
7. "Autoimmune hepatitis : diagnostic criteria and recommendations for treatment", Portuguese Congress of Hepatology, Estoril, Portugal, 2014
8. "Role of regulatory T cells in autoimmune liver diseases", 47th Annual Meeting of the European Society for Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), Jerusalem, Israel, 2014
9. "Immunosuppressive strategies in autoimmune liver disease", invited talk presented at II Clinical Preceptorship Program, Hospital de São João, Porto, Portugal, 2014
10. "Nucleo(s)tide analogues for the treatment of (acute severe to) ALF due to acute hepatitis B: is there a role? ", 1st Porto International Liver Meeting, Porto, Portugal, 2014
11. "Paediatric autoimmune liver diseases", 197 Falk Symposium, Lisbon, Portugal, 2015
12. "Response to treatment in autoimmune liver disease", Portuguese Digestive Week, Porto, Portugal, 2015
13. "Autoimmunity after liver transplantation", 28th Course on Hepatobiliary Disease, University of Coimbra, Coimbra, Portugal, 2015
14. "Clinical management of autoimmune hepatitis in the real world", EASL monothematic conference on autoimmune hepatitis, London, UK, 2015
15. "Effectors and regulators of immune response in autoimmune liver disease", Research in Progress Seminar, University of Birmingham, Birmingham, UK, 2015
16. "Variceal bleeding: from diagnosis to therapy", Acute complications of cirrhosis course, Biomedical Sciences Institute, University of Porto, Portugal, 2015
17. "Diagnosing cirrhosis", Acute complications of cirrhosis course, Biomedical Sciences Institute, University of Porto, Portugal, 2015
18. "Protocols in acute complications of cirrhosis in intermediate care units", III International Congress of Intensive and Intermediate Care Units, Porto, Portugal, 2016
19. "Role of steroids in acute severe autoimmune hepatitis", Portuguese Digestive Week, Algarve, Portugal, 2016
20. "Porto-pulmonary hypertension", 3rd Porto International Liver Meeting, Porto, Portugal, 2016

Chairman activities:

1. "Liver disease in pregnancy", 49th EASL International Liver Congress, London, United Kingdom, 2014
2. "Metabolic and cholestatic", 3rd EASL Masterclass, Pavia, Italy, 2015
3. "How to become an independent researcher", 51st EASL International Liver Congress, Barcelona, Spain, 2016

Posters and oral communications in conferences: over 50 posters and oral presentations in European and North America Learned Societies

16. SELECTED FUNDING

1. Effectors and regulators of cellular immune response in autoimmune liver disease (2009-2013)
Foundation for Science & Technology, Portugal (€ 148,800.00)
2. Analysis of CD4+Tim-3+ effectors in autoimmune hepatitis and role in disease pathogenesis (2013-2014)
Foundation for Development of Internal Medicine in Europe, Switzerland (€ 20,000.00)

- 3. Role of CD39 in modulating Th17 immune responses in autoimmune sclerosing cholangitis (2014)**
King's Health Partners, UK (£91,000.00)
- 4. Alpha4Beta7 Integrin in the pathogenesis of autoimmune liver diseases (2015-2016)**
Rosetree Foundation, UK (£16,000.00)
- 5. Entero-hepatic trafficking of lymphocytes in the pathogenesis of pediatric onset autoimmune sclerosing cholangitis (2016-2017)**
PSC Partners Seeking a Cure, USA (\$60,000)
- 6. European Registry on Autoimmune Hepatitis (2016-2018)**
United European Gastroenterology (UEG) LINK Award (€ 100,000.00)