

Dr Helen Quasnichka PhD

University of Surrey
Research Fellow
Professor Ali Mobasheri

2016 - present
FP7 D-BOARD consortium

Identification, validation and qualification of new biomarkers of degenerative and inflammatory joint disease.

University of Bristol
Senior Research Associate
Professor Anthony Hollander/ Dr Wa'el Kafienah

2011- 2016
FP7 BIO-COMET consortium

Determining the quality release criteria for tissue engineered cartilage grafts in a bioreactor.

Student projects: Predicting engineered graft quality by assessing chondrogenic markers. Tissue engineered vascular grafts for congenital heart defects.

Cardiff University
Research Associate
Professor Bruce Caterson

2009- 2011
MRC/ ARC

Proteoglycans as biomarkers of degenerative joint disease.

Student projects: The effect of statins on proteoglycan expression in chondrocytes, atherosclerotic plaques and cartilage explants.

IHG Pharmaco
Consultant Scientist

2007- 2008

Lead consultant for development of a heart disease risk panel.

University of Bristol
Research Associate
Dr Sarah George

2003- 2007
BHF

Regulation of cell cycle genes by cadherin-catenin complex in vascular smooth muscle cells.

Student projects: The role of wnt signalling in VSMC behaviour.

Imperial College London
Research Associate
Professor John Couchman

2002- 2003
The Wellcome Trust

The role of Syndecan-4 and PKC signalling in the activation of integrins.

Education

University of Bristol
PhD MRC/ CASE Studentship with Roche Discovery Welwyn, UK.
Professor Allen Bailey and Dr Mike Billingham

Awarded 2002

Project Title: 'The role of cruciate ligaments in spontaneous knee osteoarthritis.'

University of Birmingham
B.Sc. Hons. Class: 2.1 Biochemistry with Molecular and Cell Biology

Awarded 1998

Publications

Sanchez C, Bay-Jensen AC, Pap T, Dvir-Ginzberg M, Quasnicka H, Barrett-Jolley R, Mobasheri A, Henrotin Y. Chondrocyte secretome: a source of novel insights and exploratory biomarkers of osteoarthritis. *Osteoarthritis Cartilage*. 2017 Feb 20.

Quasnicka HL, Kerr BC, A, Roberts S, Hughes C and Caterson B. Expression of Small Leucine Rich Proteoglycans (SLRPs) in Bovine Synovial Fluid and Nasal Cartilage. 2012. *Orthopaedic Proceedings* vol. 94-B no. SUPP XVIII 81

Quasnicka HL, Kerr BC, Jones P, Wright A, Roberts S, Hughes C and Caterson B. Expression of Lumican in the Synovial Fluid of Patients with Osteoarthritis. 2011 Conference Paper in *International Journal of Experimental Pathology*. Volume: 92

Quasnicka HL, Slater SC, Beeching CA, Boehm M, Sala-Newby GB, George SJ. Regulation of smooth muscle cell proliferation by beta-catenin/T-cell factor signalling involves modulation of cyclin D1 and p21 expression. *Circulation Research*. 2006: 99: 1329-37. Editorial by Couffignal et al. *Circulation Research*. 2006: 99:1287-9.

Quasnicka HL, Anderson-MacKenzie JM, Bailey AJ. Subchondral bone and ligament changes precede cartilage degradation in guinea pig osteoarthritis. *Biorheology*. 2006:43(3-4):389-97.

Quasnicka HL, Anderson-MacKenzie JM, Tarlton JF, Sims TJ, Billingham ME, Bailey AJ. Cruciate ligament laxity and femoral intercondylar notch narrowing in early-stage knee osteoarthritis. *Arthritis Rheum*. 2005: 52(10):3100-9.

Quasnicka HL, Tarlton JF, Anderson-Mackenzie JM, Billingham ME, Bailey AJ, Pickford AR. Development of an assay for the quantification of type I collagen synthesis in the guinea pig. *J Immunol Methods*. 2005: 297(1-2):133-41.

Anderson-MacKenzie JM, Quasnicka HL, Starr RL, Lewis EJ, Billingham ME, Bailey AJ. Fundamental subchondral bone changes in spontaneous knee osteoarthritis. *Int J Biochem Cell Biol*. 2005:37(1):224-36.

Quasnicka HL, Helps CR and Murray E. COL1A1 gene C. porcellus. *NCBI*. 2002: Accession Code AY165952

Podium presentations

International Cartilage Repair Society, Izmir, Turkey (September 2013). Lumican is a potential biomarker for osteoarthritis.

International Vascular Biology Meeting, Leiden, Netherlands (June 2006). β -catenin Signalling Regulates Vascular Smooth Muscle Cell Proliferation and Cell Cycle Genes.

British Tissue Engineering Network, London, UK (January 2003). Ligament metabolism in osteoarthritis.

Annual Rheumatology Meeting, Bristol, UK (November 2001). Ligament and bone in osteoarthritis.

Osteoarthritis Research Society, International World Congress, Vienna, Austria (September 1999). Early changes in collagen biochemistry of knee cruciate ligaments and subchondral bone in spontaneous osteoarthritis.