

Name: John D Pauling

Country: United Kingdom

Contact e-mail: JohnPauling@nhs.net

Year of birth: 1979

Mains diplomas:

MD: 2002

Rheumatologist: 2013

PhD if applicable: year and subject: 2013 (Raynaud's phenomenon and systemic sclerosis)

Current position and hospital/university:

Senior Lecturer and Consultant Rheumatologist

Royal National Hospital for Rheumatic Diseases (part of Royal United Hospitals NHS Foundation Trust), Upper Borough Walls, Bath, BA1 1RL

Department of Pharmacy and Pharmacology, University of Bath, Claverton Down Rd, Bath, BA2 7AY

Position within EULAR/international experience:

2011- Member, UK Scleroderma Study Group
2013- Member, Scleroderma Clinical Trials Consortium
2014- Member, EULAR Microcirculation Study Group
2014- EMEUNET (EMerging Eular NETwork) Working Group
2014- Member, British Society of Rheumatology
2014- Editorial Board member, *Rheumatology*
2015- Member, British Microcirculation Society
2015- Member, European Society for Microcirculation
2016- Editorial Board member, *Journal Scleroderma and Related Disorders*

Role as EMEUNET working group member: Global Affairs Subgroup

Areas of Research/Interest:

My doctoral studies explored the potential contribution of platelets to the pathogenesis of peripheral vascular manifestations of primary RP and SSc. This work has helped me to develop an interest in subjective (such as the RCS diary) and objective (infrared thermography and laser-derived imaging modalities) methods for assessing digital microvascular function in health and disease. I have published early validation studies examining the construct validity and reliability of laser speckle contrast imaging (LSCI) for assessing digital perfusion in healthy controls, primary RP and SSc. I am interested in how non-invasive imaging modalities can be applied in the clinical trial setting.

Keywords: Raynaud's phenomenon, Systemic Sclerosis, Outcome measures. Microvascular Imaging

Publications:

Book Chapters

Murray A, **Pauling J D**.

Non-invasive imaging in Raynaud's phenomenon

Book title: Raynaud's phenomenon

Editors Wigley F, Herrick A. Springer Science. Springer; 2014 1st edition

Flower V, **Pauling J D**, McHugh NJ.

Autoantibodies in Raynaud's phenomenon

Book title: Raynaud's phenomenon

Editors Wigley F, Herrick A. Springer Science. Springer; 2014 1st edition

Pauling J D, McHugh NJ.

Chapter 18: The clinical use of autoantibodies in systemic sclerosis.

Book title: Scleroderma: From pathogenesis to comprehensive management.

Editors Varga J, Wigley F, Denton C. Springer Science. Springer; 2012 1st edition

Journal Articles

Dr Philip Hamann, Dr Richard Holland, Professor Kimme Hyrich, **Dr John Pauling**, Dr Gavin Shaddick, Dr Alison Nightingale, Professor Neil J McHugh. Factors Associated with Sustained Remission in Rheumatoid Arthritis in Patients Treated with Anti-Tumour Necrosis Factor (anti-TNF). Arthritis Care & Research. 2016 (In press)

B J Veale, R Y Jablonski, T M Frech, **J D Pauling**. Orofacial Manifestations of Systemic Sclerosis. *British Dental Journal* 2016 (In press)

Scolnik M, Vasta B, Hart DJ, Shipley JA, McHugh NJ, **Pauling JD**. Symptoms of Raynaud's phenomenon (RP) in fibromyalgia syndrome are similar to those reported in primary RP despite differences in objective assessment of digital microvascular function and morphology. *Rheumatol Int*. 2016 May 2.

Frech, TM, **Pauling, JD**, Murtaugh, MA, Kendall, K, Domsic, RT. Sublingual Abnormalities in Systemic Sclerosis. *Journal of Clinical Rheumatology* 2016 Jan;22(1):19-21

Pauling JD, Shipley JA, Hart DJ, McGrogan A, McHugh NJ. Use of Laser Speckle Contrast Imaging to Assess Digital Microvascular Function in Primary Raynaud Phenomenon and Systemic Sclerosis: A Comparison Using the Raynaud Condition Score Diary. *J Rheumatol*. 2015 Jul;42(7):1163-8.

Gunn J, **Pauling JD**, McHugh NJ. Impact of anti-centromere antibodies on pulmonary function test results in patients with systemic sclerosis without established or suspected pulmonary disease. *Clin Rheumatol*. 2014 Jun;33(6):869-71.

Vasta B, Flower V, Bucciarelli-Ducci C, Brown S, Korendowych E, McHugh NJ, **Pauling JD**. Abnormal cardiac enzymes in systemic sclerosis: a report of four patients and review of the literature. *Clin Rheumatol*. 2014 Mar;33(3):435-8.

Strickland G, **Pauling JD**, Cavill C, McHugh NJ. Mortality in systemic sclerosis – A Single Centre Study from the UK. *Clin Rheumatol*. 2013 Oct;32(10):1533-9.

Pauling JD, O'Donnell VB, McHugh NJ. The contribution of platelets to the pathogenesis of Raynaud's phenomenon and systemic sclerosis. *Platelets*. 2013;24(7):503-15.

Pauling JD, Shipley JA, Harris N, McHugh NJ. Use of infrared thermography as an endpoint in therapeutic trials of Raynaud's phenomenon and systemic sclerosis. *Clin Exp Rheumatol. Scleroderma Care and Research* 2012;30(2):S103-115

Strickland G, **Pauling JD**, Cavill C, McHugh NJ. Predictors of health-related quality of life and fatigue in systemic sclerosis: Evaluation of the EuroQol-5D and Facit-F assessment tools. *Clin Rheumatol*. 2012 Aug;31(8):1215-22

Pauling JD, McHugh NJ. Evaluating factors influencing screening for pulmonary hypertension in systemic sclerosis in clinical practice: Does disparity in available guidelines influence clinical management? *Clin Rheumatol*. 2012 Feb;31(2):357-61.

Pauling JD, Shipley JA, Raper S, Watson M L, Ward S G, Harris N D , McHugh NJ. Comparison of two methods for the assessment of digital microvascular function following cold challenge: Evaluation of the validity and reliability of laser contrast speckle imaging. *Microvasc Res.* 2012 Mar;83(2):162-7.

Pauling JD, Flower V, Shipley JA, Harris ND, McHugh NJ. Influence of the cold challenge on the discriminatory capacity of the digital distal-dorsal difference in the thermographic assessment of Raynaud's phenomenon. *Microvasc Res.* 2011 Nov;82(3):364-8.

Pauling JD, Brown SJ, James J, Shipley JA, Korendowych E, McHugh NJ. Vacuum-assisted closure therapy: a novel treatment for wound healing in systemic sclerosis. *Rheumatology (Oxford).* 2011;50(2):420-2.

Flower V, **Pauling JD**, Shipley JA, McHugh NJ. Raynaud's phenomenon and macrocytic anaemia. *British Medical Journal.* 2010;341:c6011.

Pauling JD, McHugh NJ. Does incorporation of a cold challenge provide diagnostic information in the thermographic assessment of Raynaud's phenomenon. *Thermology International.* 2010; 20(3):87-92

Pauling JD, Shipley JA, McHugh NJ. Impaired digital vascular function mimicking Raynaud's phenomenon as a complication of argon laser therapy in tuberous sclerosis. *Microvasc Res.* 2010 Jul;80(1):2.

Pauling JD, Gunawardena H, Coglan G, Easaw J, Suntharalingam J, McHugh N J. Pulmonary Artery Hypertension as the presenting feature of systemic sclerosis sine scleroderma. *Rheumatology (Oxford).* 2008 Sep;47(9):1431-2.

Date of last update of the CV: October 2016