

Professor John Smalley is a distinguished scientist with numerous notable achievements.

Scientific achievements:

1. Extensive research on bacterial heme-containing pigments of black-pigmenting anaerobes, on heme control in physiology and pathogenicity, identification of bacterial outer-membrane heme-binding proteins; Establishment of the steps involving proteases in the breakdown of hemoglobin and serum heme-albumin in the formation of the pigments;
2. Demonstration of syntrophic mechanisms involving proteases and HmuY proteins to extract heme from haemoglobin and the potentiating influence of non-enzymic glycation of hemoglobin on *P. gingivalis* virulence;
3. Discovery of the role of anaerobic oral bacteria in lung and other infections, including those in cystic fibrosis and diabetes;
4. Over 50 publications in prestigious international journals

Teaching achievements:

1. Course co-director, University of Liverpool Dental School, undergraduate Oral Science and Medicine course, with responsibility of development of Problem-Based Learning
2. Developed and directed the endodontic microbiology course as part of the clinical post-graduate Liverpool Dental School Doctorate of Dental Science (Endodontics)
3. External examiner for several PhD students, both nationally and internationally
4. Referee for various national and international microbiological and biochemical journals
5. Regional Editor for the journal *Molecular Oral Microbiology*
6. Committee Member of the British Society for Dental Research, Oral Microbiology and Immunology

Other achievements:

1. Visiting Professor in the Faculty of Biotechnology, University of Wrocław, Wrocław
2. Visiting Professor in the Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Kraków