

CURRICULUM VITAE

NAME: Kowolik, Michael J.

GRADUATE EDUCATION:

1973 University of Edinburgh, Edinburgh, Scotland, UK
Bachelor of Dental Surgery

1977 The Royal College of Surgeons of Edinburgh, Edinburgh, Scotland, UK
Fellowship in Dental Surgery, specialty in Periodontology and Preventive Dentistry

1984 University of Edinburgh, Edinburgh, Scotland, UK
Doctor of Philosophy

ACADEMIC APPOINTMENTS (1984 - present listed):

1984 - 1994 Associate Professor and Head of Department of Periodontics
Leeds University, UK

1994 - 1998 Adjunct Professor, Department of Oral Biology*
Indiana University School of Dentistry, Indianapolis, Indiana

*While at Procter and Gamble, I held a part-time position at Indiana University, establishing a new laboratory (The Host Defense Laboratory). This laboratory has been my research base to the present time.

1998 - Present Professor, Director of Graduate Research
Department of Periodontics and Allied Dental Programs
Indiana University School of Dentistry, Indianapolis, Indiana
Awarded Tenure by Indiana University in 2005

2004 - Present Affiliate Faculty
IU Center for Bioethics

I hold several adjunctive and honorary appointments at universities in the US and Mexico.

ADMINISTRATIVE APPOINTMENT:

2007 - 2014 **Associate Dean for Graduate Education**

Indiana University School of Dentistry has nine specialty programs in clinical dentistry that lead to the award of a Master of Science in Dentistry (MSD) degree. With approximately 90 students in these programs and an additional 10 -12 in our PhD program, there is a serious commitment to this level of education in the school. A number of these programs developed from those founded by legendary figures in dental education and research and the consequence is that we have a tremendous national and international reputation to uphold and foster.

In 2007, the Dean created an independent office of Graduate Education, recognizing that there are significant changes occurring in postgraduate education, and it was my privilege to be chosen for this role from among the applicants.

My priorities in this position were to review the financing of the programs, to address the projected necessity for recruiting and developing future faculty, improving research productivity and publication of research data by the students, and to ensure that our programs meet the needs of a changing professional world. In 2008 I coordinated the establishment of an IUSD graduate professional conduct committee.

All graduate programs were successfully re- accredited through the CODA process of review in September, 2013. Our three “non-CODA” programs and our PhD program were reviewed by an IUPUI formal process in the spring of 2013, subsequent to which the Dean charged me with chairing a Task Force with a remit to review all aspects of all our standing programs. This is nearing completion, and under the charge of my successor.

2012 – present: Appointed **Associate Dean for Global Engagement**

In 2011, Indiana University President, Michael McRobbie, published a policy document for the university: “**New Academic Directions**”. The Dean of IUSD subsequently charged me with developing a strategic plan for global engagement for the school. I have been addressing those partnerships already in place and looking to develop fresh horizons. One outcome to date has been to help enhance the profile of IUSD within the university, for example by the pivotal role played in the signing of a Memorandum of Understanding with King Saud University in April, 2013.

Together with Dr. Ian McIntosh, Office of International Affairs, and Associate Dean, Mary Beth Riner, School of Nursing, I helped establish a campus group of school and unit representatives, to enhance and coordinate global efforts and interests.

I work closely with Dr. Gil Latz, Associate Vice Chancellor and Associate Vice-President for International Affairs, in developing strategy for global engagement.

2014 – present: Appointed **Executive Associate Dean for the school and Associate Dean for Faculty Affairs**

In this role I assist the dean in strategic planning for the school in fulfilling its vision and mission, and am responsible for the operational functions at all levels. My key administrative responsibility is to the faculty, in all aspects of professional life, from strategic hiring, career development, progress review and disciplinary proceedings.

INDUSTRY AND CLINICAL TRIAL EXPERIENCE:

I was fortunate to have excellent mentors who trained me in the discipline of clinical research and clinical trials, through which I became co-director of an independent Clinical Trials Organization in England, until relocating to the US in 1994.

1994 - 1998 Recruited as Senior Research Fellow, the Procter and Gamble Company, Cincinnati, OH

HONORS AND AWARDS:

2000	Awarded "Distinguished Faculty Award for Research"; Indiana School of Dentistry
2005	Awarded "The King James IV Professorial Fellowship of the Royal College of Surgeons of Edinburgh", 2005, the year of the Quincentenary of the College
2005	Elected to Theta Theta Chapter of OKU, 2005

Of special note have been more than 20 research prizes and awards earned by PhD, Masters and dental students whom I have **mentored** over the past 15 years at Indiana University School of Dentistry (IUSD). Of particular merit was the award to Dr. S. Dowsett of the prestigious “Esther L. Kinsley PhD” prize in 2002 (most outstanding thesis at IU). She remains to this day the only awardee from the School of Dentistry.

FUNDING:

Until leaving the UK in 1994, I received approximately \$1M in commercial support and \$160,000 through university and government funding.

Since joining IU, I have received well in excess of \$2M in commercial support and \$1.4M in federal funding, with additional funds from other foundation and university sources.

I am currently co-investigator on three clinical research projects.

PRESENTATIONS AND PUBLICATIONS:

Presentations: I have been a member of IADR and divisions since 1979, and I myself, students and colleagues have presented research data pertaining to our studies virtually every year. In addition, I have presented papers at research conferences, workshops, and universities in many international venues, many by invitation.

Publications: I have published approximately 65 original papers in peer-reviewed journals, of which the following are a selection:

1. Dowsett SA, Archila L, Segreto VA, Gonzalez CR, Silva A, Vastola KA, Bartizek RD and **Kowolik MJ**. 1999. *Helicobacter pylori* infection in indigenous families of Central America: serostatus and oral and fingernail carriage. *Journal of Clinical Microbiology*. 37: 2456-2460
Paper also discussed in: *The Lancet* (1999) 354: 654. "Hands could be the key to spread of *H. pylori*", *Am Soc for Microbiology News* (1999) 65:619. "Study suggests hands may play a role in *Helicobacter pylori* infection", and *Men's Health*, December (1999) p104. Interviewed for the article, "The Oral Cavity: Route of All Evil"
2. Moore MA, Kaplan DS, Picciolo GL, Wallis RR and **Kowolik MJ**. 2001. Effect of cellulose acetate materials on the oxidative burst of human neutrophils. *Journal of Biomedical Materials Research* 55: 257-265
3. **Kowolik MJ**, Dowsett SA, Rodriguez J, De La Rosa M and Eckert GJ. 2001. Systemic neutrophil response resulting from dental plaque accumulation. *Journal of Periodontology* 72: 146-151
4. Dowsett SA, Foroud T, Archila L & **Kowolik MJ**. 2002. The effect of shared genetic and environmental factors on periodontal disease parameters in untreated adult siblings. *Journal of Periodontology* 73:1160-8.
5. Dowsett SA, **Kowolik MJ**. 2003. Oral *Helicobacter pylori*: Can we stomach it? 2003 *Critical Reviews in Oral Biology and Medicine* 14:226-233
6. **Kowolik MJ** and Dowsett SA. 2005 Leukocyte response to dental plaque accumulation: A risk factor for Heart Disease? *Archives of Internal Medicine* 165: 1795-1796
7. Khan SM, Blanchard SB, Dowsett SA, Eckert GJ, **Kowolik MJ** 2006 Periodontal assessment by Right- and Left-Handed Examiners: Is There a Difference? *Journal of Periodontology* 77: 1099-1103
8. Wahaidi VY, Dowsett SA, Eckert GJ, **Kowolik MJ** 2009 Neutrophil Response to Dental Plaque by Gender and Race. *Journal of Dental Research* 88: 709-714
9. Wahaidi VY, **Kowolik MJ**, Eckert GJ, Galli DM 2011 Endotoxemia and the host systemic response during experimental gingivitis. *Journal of Clinical Periodontology* 38: 412-417
10. Westergard EJ, Romito LM, **Kowolik MJ**, Palenik CJ 2011 Bacterial contamination of dental impression guns. *Journal of the American Dental Association* 142: 1269-1274
11. Bottino MC, Thomas V, Schmidt G, Vohra YK, Chu TG, **Kowolik MJ**, Janowski GM 2012 Recent advances in the development of GTR/GBR membranes for periodontal regeneration - a materials perspective. *Dental Materials* 28 (7): 703-721

12. Nozrati E, Eckert GJ, **Kowolik MJ**, Schamberger MS, Ho JG, Kowolik JE 2013 Gingival evaluation of the pediatric cardiac patient: a controlled cross sectional study. *Pediatric Dentistry* 35: 456-462
13. Reina E, Al-Shibani N, Allam E, Gregson KS, **Kowolik M**, Windsor LJ 2013 The effects of *Plantago major* on the activation of the neutrophil respiratory burst. *Journal of Traditional and Complementary Medicine* 3: 268-272
14. Medina-Solís CE, Pontigo-Loyola AP, Pérez-Campos E, Hernández-Cruz P, Ávila-Burgos L, **Kowolik MJ**, Maupomé G. 2013 Association Between Edentulism and Angina Pectoris in Mexican Adults 35 Years of Age and Older: A Multivariate Analysis of a Population-based Survey. *Journal of Periodontology* DOI: 10.1902/jop.2013.130186

Books

1. Galgut P N, Dowsett S A, Kowolik M J, 2001 Periodontics: Current concepts and treatment strategies. Martin Dunitz, London, UK.
2. M J Kowolik, 1995 "Periodontal Care and Prevention" Chapter 6 in "Dental Care of the Elderly" Eds:JR Drummond, JP Newton and R Yemm. Mosby-Wolfe, London.

TEACHING ACTIVITIES:

Throughout my career I have been a dedicated teacher, with courses, lectures, seminars and small group activities, including Problem Based Learning, to dental, dental hygiene, graduate and postgraduate students, and faculty groups. This has been primarily in the dental school, but also in the medical school.

My affiliate position in the Center for Bioethics provides a platform from which I present and guide seminars in matters related to ethics in human subjects research, particularly international collaborative studies, and especially within indigenous populations.

When invited, I have contributed to Continuing Education programs, most recently, a 15 hour commitment to the IUSD Alumni biennial program.

UNIVERSITY AND PROFESSIONAL SERVICE ACTIVITIES:

Over the past 12 years I have participated in and contributed to many service roles within the IUSD and Indiana University systems. Examples of current responsibility are membership of:

IUSD Promotion and Tenure Committee,
 Campus Research Affairs Committee,
 Campus Graduate Affairs Committee,
 Campus PhD Fellowship Committee,
 2011 Chair of the Trailblazer Awards Committee (appointed by the Assistant VP for Research),
 Campus Graduate Fellowships Committee,
 Campus Biomedical and Behavioral Sciences IRB,
 Editorial board of the IU publication – "Research and Creative Activity".
 Member of the Executive Vice Chancellor's committee of associate deans

In 2008/10, I was one of 3 members of the IADR Ethics Committee charged with re-writing the Code of Ethics for the Association.

INTERNATIONAL ACTIVITIES:

While still based in the UK, I established myself within the European “inflammation community” and collaborated with colleagues in a number of countries, primarily Finland and Italy.

On moving to the US, through serendipity and enterprise, I developed professional and research collaborations in Mexico, then Guatemala and, since 2006, the University of Costa Rica. Most recently, I have been instrumental in brokering a liaison between IUSD and a newly-established private society of implantology in Japan.

Following my appointment as **Associate Dean for Global Engagement** in 2012, I have been developing a strategic plan to build on established partnerships between IU and IUSD, such as at Moi University in Kenya and Sun Yat-Sen University in Guangzhou, China. Also to revive our relationships with powerful centers of our alumni, particularly in Thailand and Korea, where we have IUSD alumni in senior academic and leadership positions. Excitingly, as mentioned previously, in April, 2013, we signed an agreement with King Saud University, Riyadh, Saudi Arabia, and are working with our colleagues there to establish a joint PhD program. In 2014, I have visited Kuwait University, Jordan University of Science and Technology, where I was also a Keynote speaker for an International Conference, and contributed teaching to an international program on Research Methodology and Ethics in Vietnam. In 2010 we established a partnership with a private Implantology Group in Tokyo, Japan, and I have played the major role in developing this collaboration.

Overall, this activity with international colleagues brings benefit to all, through understanding disease from different perspectives. It also brings a wealth of cultural understanding and empathy when dealing with international students here in the US academic environment. There is also an appreciation for the “IUSD Brand” with respect to graduate education, and we are building on this.

Another facet of gaining an international perspective is contributing to the preparation of students for International Service Learning trips. My input each year is to challenge the students with respect to the ethical aspects of entering other societies and cultures.

SUMMARY:

My clinical academic career has provided me with experience in all key areas of faculty responsibility. I have been privileged to have experienced excellent mentorship, and receive a comprehensive education in basic and clinical science, while gaining a perspective on academic culture in Europe and the US, and relating this to other countries. I believe that I have the ability to bring productive scientists and clinicians together, while mentoring both students and junior colleagues, to create teams in an environment conducive to relevant productivity in oral health care research and thus practice.

More recently, my administrative roles have brought me into direct working relationships with the senior university administration and hence nationally. In doing so, we are enhancing the role of IUSD in the global oral health, education and research arenas.