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# JAMES NOBLE, B.Sc., D.D.S., M.Sc., FRCD©

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## CURRENT ACTIVITIES

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- Private orthodontic practice, Orthodontics at Don Mills, Toronto, Ontario
- Staff Orthodontist, Bloorview Kids Rehab Hospital, Toronto, Ontario
- Staff Orthodontists, Children's Aid Society of Toronto
- Adjunct Faculty, Seton Hill University, Greensboro, PA, Division of Orthodontics
- Visiting Lecturer, University of Manitoba, Faculty of Dentistry, Department of Preventive Dental Sciences
- Part-time Clinical Instructor, University of Toronto, Faculty of Dentistry
- Orthodontic Consultant, Clinical Advisor, Advocate and Speaker for *American Orthodontics*

## EDUCATION

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- 2000 University of Toronto, B.Sc. (With High Distinction)
- 2004 University of Toronto, DDS (With Honours)
- 2005 University of Toronto, Residency
- 2008 University of Manitoba, M.Sc.
- 2008 Fellow of the Royal College of Dentist's of Canada, FRCD©

## PROFESSIONAL EXPERIENCE

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- **2006 - 2007** Co-course Coordinator in Orthodontics: International Dental Development Program, provided lectures, seminars and organized course in orthodontics.
- **2007** Lecture Moderator, 107th Annual Session, American Association of Orthodontists.
- **2007** Lecturer 1st year orthodontics: provided lectures to 1st year dental students.
- **2007 - Present** Resident Orthodontist on the Craniofacial Deformities Team.
- **2007** Lecturer 3rd year orthodontics: provided lectures to 3rd year dental students.
- **2007 - 2008** Course Coordinator in Orthodontics: International Dental Development Program, Provided lectures, seminars and organized courses in orthodontics.
- **2007 - Present** Representing Orthodontics on the Manitoba Centre for Craniofacial Differences team: attended bimonthly teams clinics and meetings and provided orthodontic treatment in the graduate orthodontic clinic to patients with cleft lip and palate and craniofacial differences.
- **2008 - 2009** Part-time Clinical Instructor, University of Manitoba, Faculty of Dentistry, graduate and undergraduate orthodontic clinics
- **2007 - 2009** Orthodontist, Manitoba Centre for Craniofacial Differences, Children's Hospital, Winnipeg, Manitoba

## AWARDS AND SCHOLARSHIPS

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- **2003** Dr. John A. Sherman Memorial Award
- **2004** Dental Students' Society Award of Distinction
- **2004** Gordon Cressy Student Leadership Award
- **2004** American Association of Oral and Maxillofacial Surgeons Dental Implant Student Award
- **2004** Piret Truuvert Memorial Award
- **2004** Prosthodontics Prize
- **2004** Hugh Alexander Hoskin Scholarship
- **2004** Harold Keith Box Prize, Gold Medal
- **2004** The J.G. Bourassa Cup
- **2004** Omicron Kappa Upsilon National Dental Honour Society
- **2007** University of Manitoba Program Director's Award
- **2008** James F. Mulick Orthodontic Scholarship
- **2008** Russell R. Wallace Memorial Award
- **2008** University of Manitoba Program Director's Award

## EDITORIAL BOARD

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- Orthodontic Techniques magazine

## REVIEWER FOR PEER-REVIEWED JOURNALS

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- Angle Orthodontics
- World Journal of Orthodontics
- The Journal of the Canadian Dental Association
- The British Dental Journal
- The Australian Orthodontic Journal
- Journal of the American Dental Association
- European Dental Journal
- Indian Journal of Dental Research
- Recent Patents on Biomedical Engineering

## PROFESSIONAL ACTIVITIES

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- Executive, Toronto East Dental Society, Ontario Dental Association
- Member of the Ontario Dental Association Political Action Committee, representing Don Valley West



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## ORTHODONTIC RESEARCH, INTERESTS & CURRENT PROJECTS

- Growth modification; force measurement and dissipation of forces of orthopedic appliances throughout the craniofacial complex, mechanism of action of functional appliances and headgear, risk vs. benefit of using functional appliances.
- Epidemiology of patients with cleft lip and palate.
- Forces on placement and reasons for failure of orthodontic temporary anchorage devices.
- The future of orthodontic practice.
- Orthodontic education.
- Provision of dental care to under serviced areas and populations, patients with cleft palate and craniofacial anomalies and patients with special needs.
- Nickel allergy and dentistry.
- Nickel-Titanium versus heat activated Nickel-Titanium archwires in clinical practice
- Bonding of orthodontic attachments to teeth.
- Mechanisms to improve oral hygiene and enamel decalcification.
- The efficacy of tele-medicine in the diagnosis and treatment of dental patients

## PROFESSIONAL AFFILIATIONS

- Fellow, World Federation of Orthodontists
- Canadian Association of Orthodontists
- American Association of Orthodontists
- Fellow Royal College of Dentists of Canada
- American Cleft Palate - Craniofacial Association
- Omicron Kappa Upsilon Honour Society
- International Association of Dental Research
- Canadian Association of Dental Research
- International Student Clinicians Honour Society
- Canadian Dental Association
- Ontario Dental Association
- Manitoba Dental Association
- American Dental Education Association
- Toronto Orthodontic Study Club

## PUBLICATIONS

1. **Noble J**, Cassolato SF. Pre-prosthetic orthodontic distalization using temporary skeletal anchorage devices. Submitted to the Journal of the Canadian Dental Association.
2. Carmichael RP, **Noble J**. Dentistry at Bloorview Kids Rehab. Ontario Dentist. December, 2009.
3. **Noble J**, Wiltshire WA, Hassard TH. Leaching of nickel from nickel-titanium orthodontic archwires in vitro. Submitted to the Journal of Clinical Orthodontics.
4. **Noble J**, Hechter FJ, Karaikos N, Wiltshire WA. Resident Evaluation of Orthodontic Programs in the United States. Journal of Dental Education. 2009 Nov;73(11):1286-92.
5. Halpern R, **Noble J**. Location and Presence of Permanent Teeth in a Complete Bilateral Cleft Lip and Palate Population. Angle Orthodontist 2010;80:591-596.
6. Wiltshire WA, **Noble J**. Clinical and laboratory perspectives of orthodontic bonding to normal, hypoplastic and fluorosed enamel: State-of-the-art. Seminars in Orthodontics Semin Orthod 2010;16:55-65
7. **Noble J**, Karaikos NE, Wiltshire WA. Future Provision of Orthodontic Care for Patients with Cleft Lip and Palate and Craniofacial Anomalies in the United States and Canada. World Journal of Orthodontics, Fall, 2010.
8. **Noble J**, Cassolato SF, Karaikos N, Wiltshire WA. My patient is receiving orthodontic treatment, and her oral hygiene has taken a turn for the worse. What preventive and interceptive measures are available for improving and maintaining good oral hygiene and cariogenic control in orthodontic patients? J Can Dent Assoc 2009 July/August;75(6):441-443.
9. **Noble J**, Hechter FJ, Karaikos N, Wiltshire WA. Motivational Factors and Future Life Plans of Orthodontic Residents in the United States. American Journal of Orthodontics and Dentofacial Orthopedics 2010;137:623-30.
10. **Noble J**, Karaikos N, Hassard TH, Hechter FJ, Wiltshire WA. Stress on Bone with Placement and Removal of Orthodontic Miniscrews at Different Angulations. Journal of Clinical Orthodontics 2009;XLIII(5):332-334.
11. Cassolato SF, Ross B, Daskalogiannakis J, **Noble J**, Tompson B. Treatment of Dental Anomalies in Children with Complete Unilateral Cleft Lip and Palate at SickKids Hospital, Toronto. Cleft Palate Craniofac J. 2009 Mar;46(2):166-72.
12. **Noble J**, Hechter FJ, Karaikos N, Wiltshire WA. Resident Evaluation of Orthodontic Programs in Canada. J Dent Educ. 2009 Feb;73(2):192-8.
13. **Noble J**, Hechter FJ, Karaikos N, Lekic N, Wiltshire WA. Future Clinical Practice Plans of Orthodontic Residents in the United States. Am J Orthod Dentofacial Orthop 2009;135:357-60.
14. **Noble J**, Karaikos NE, Wiltshire. The orthodontist gave my patient a rapid maxillary expander followed by a functional appliance that has a head gear component and she has obtained an outstanding result! What biological mechanism allows these appliances work? J Can Dent Assoc. 2008 Dec;74(10):895-6.
15. **Noble J**. How do you predict the eventual amount of spacing or crowding that will occur in a child in the mixed dentition? Journal of the Canadian Dental Association. J Can Dent Assoc. 2008 Dec;74(10):893-4.
16. **Noble J**, Karaikos N, Wiltshire WA. What additional precautions should I take when bonding to severely fluorotic teeth? Journal of the Canadian Dental Association. J Can Dent Assoc. 2008 Dec;74(10):891-2.
17. **Noble J**, Karaikos N, Wiltshire WA. Motivations and future plans of Canadian Orthodontic Residents. American Journal of Orthodontics and Dentofacial Orthopedics. Am J Orthod Dentofacial Orthop 2009;136:644-50.
18. **Noble J**, Ahing SI, Karaikos N, Wiltshire WA. A patient presents with an allergy to nickel and requires orthodontic treatment, should I be concerned? Journal of the Canadian Dental Association. J Can Dent Assoc. 2008 Dec;74(10):897-8.
19. **Noble J**. Oral Hygiene for the Orthodontic Patient. Volume 5, p.25 Vital Autumn 2008.
20. **Noble J**, Ahing SI, Karaikos N, Wiltshire WA. Nickel Allergy and Orthodontics, a Review and Report of Two Cases. British Dental Journal 204(6):297-300, Mar 2008.

## **PUBLICATIONS (CON'T)**

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21. **Noble J.** Fluoride Varnish for the teeth. Volume 3, p. 39 Vital Spring 2008.
22. **Noble J,** Karaikos N, Wiltshire WA. In Vivo Bonding of Orthodontic Brackets to Fluorosed Enamel Using an Adhesion Promoter. *Angle Orthodontist* 78(2):357-360, 2008.
23. **Noble J,** Karaikos N, Wiltshire WA. Diagnosis and Management of the Infraerupted Primary Molar. *British Dental Journal.* 203(11):632-634, Dec 2007.
24. **Noble J,** Karaikos N, Wiltshire WA. Diagnosis and clinical management of patients with skeletal Class III dysplasia. *General Dentistry* 55(6):543-547, 2007.
25. Wiltshire WA, **Noble J.** Allergies to dental materials. p 39. *Vital.* Autumn 2007.
26. **Noble J,** Baker RC, Karaikos N. Wiltshire WA. How should I treat a young patient in the primary or early mixed dentition that presents with a unilateral posterior crossbite with a mandibular shift? *Journal of the Canadian Dental Association* 73(7):599-601 Sept 2007.
27. **Noble J,** Karaikos N, Wiltshire WA. What should I do for an adolescent who is in the mixed dentition stage and who has an impacted maxillary canine? *Journal of the Canadian Dental Association.* 73(3):233-34, April 2007.
28. **Noble J,** Karaikos N, Wiltshire WA. What should I think about when examining a child who has a primary tooth below the plane of occlusion? *Journal of the Canadian Dental Association.* 72(8):705-6, Oct. 2006.
29. **Noble J.** Dental Crisis in Kashechewan: Part of a larger picture. *Journal of the Canadian Dental Association.* 71(10):754-55, Nov. 2005.
30. **Noble J,** Picard A, Cloutier M, Mirkopoulos P, Chattha S, Lalani A. Dental Management of the Adult Patient with Chronic Renal Failure. *Ontario Dental Student's Journal.* 1(1):18-21, Spring, 2005.
31. **Noble J,** Metaxas A, Locker D. Methods to Prevent White Spot Lesions during Orthodontic Treatment. *Journal of the Canadian Dental Association.* 71(4):278-281, April, 2005.
32. Hawkins RJ, **Noble J,** Locker D, Wiebe D, Murray H, Wiebe P, Wiebe P, Forsina C, Clarke M. A comparison of the costs and patient acceptability of professionally applied topical fluoride foam and varnish. *Journal of Public Health Dentistry* 64(2):106-10, 2004.
33. Hawkins R. Locker D. **Noble J.** Kay EJ. Prevention. Part 7: professionally applied topical fluorides for caries prevention. *British Dental Journal.* 195(6):313-7, 2003.
34. **Noble J.** Poets Pen: Gerstein. *Journal of the Canadian Dental Association,* 69(6):352, June, 2003.
35. Nanthakumar K. Dorian P. Paquette M. Greene M. Edwards J. Heng D. **Noble J.** Newman D. Is inappropriate implantable defibrillator shock therapy predictable? *Journal of Interventional Cardiac Electrophysiology.* 8(3):215-20, 2003.
36. Locker D, Hawkins RJ, **Noble J.** Dental sealants: an update on recently published studies. *Journal of the Canadian Dental Association.* 68(6):367-370, June, 2002.
37. **Noble J,** Hawkins RJ, Locker D. Professionally applied topical fluorides: an update on recently published studies. *Journal of the Canadian Dental Association.* 67(10):607-610, November, 2001.
38. Midha R, Shoichet MS, Dalton PD, Cao X, Munro CA, **Noble J,** Wong MKK. Tissue engineered alternatives to nerve transplantation for repair of peripheral nervous system injuries. *Transplantation Proceedings,* 33:612-615, 2001.
39. Shoichet M, Midha R, Cao X, **Noble J,** Munro C, Wong M. Investigating a new entubulation strategy to overcome peripheral nerve injury. *American Society of Mechanical Engineers – Publications - BED.* 42:751-752, 1999.
40. **Noble J,** Munro CA, Prasad VSSV and Midha R. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. *The Journal of Trauma – Injury Infection & Critical Care,* 45(1):116-122, July, 1998.

## **ABSTRACTS AND PRESENTATIONS**

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1. **Noble J,** Huminicki A, Schroth B, Simmons K, Peanchitlerkajorn S, Hechter FJ, Carmichael R, Wiltshire WA. Motivations of Orthodontic Residents in Canada and the US to treat patients with Cleft Lip and Palate, Craniofacial Anomalies and Special Needs. *World Federation of Orthodontists, 7th International Conference, Sydney Australia, February 6th, 2010.*
2. **Noble J,** Simmons K, Peanchitlerkajorn S, Hechter FJ, Schroth B, Carmichael R, Wiltshire WA. Motivations of Orthodontic Residents in Canada and the US to treat patients with Cleft Lip and Palate, Craniofacial Anomalies and Special Needs. *85th Congress of the European Orthodontic Society, Helsinki, Finland. Abstract #CP013 p.159.*
3. **Noble, J,** Dykun A, Wiltshire WA, Ahing SI, Hassard TH. Leaching of Nickel in Nickel-Titanium Orthodontic Archwires In Vitro. *85th Congress of the European Orthodontic Society, Helsinki, Finland. Abstract #SP235 p.95.*
4. **Noble J,** Hechter FJ, Kennedy SA, Karaikos NE. Resident Evaluation of Orthodontic Programs in the United States. *J Dent Res Abstract* 2469 (Spec Iss A), 2008.
5. **Noble J,** Hechter FJ, Karaikos N, Wiltshire WA. Future Clinical Practice Plans of Orthodontic Residents in Canada. *84th Congress of the European Orthodontic Society, Lisbon, Portugal, June 2008 Abstract #381 p.141.*
6. **Noble J,** Hechter FJ, Kennedy SA, Karaikos N, Wiltshire WA. Resident Evaluation of Orthodontic Programs in Canada. *84th Congress of the European Orthodontic Society, Lisbon, Portugal, June 2008, Abstract # 380 p.141.*
7. **Noble J,** Karaikos N, Hechter FJ, Hassard TH, Wiltshire WA. Quantification of Stress on Palatal and Alveolar Bone with the Placement and Removal of an Orthodontic Temporary Anchorage Device at Different Angulations. *108th Annual Session, American Association of Orthodontists Conference, Denver, Colorado, May, 2008, p.15*
8. **Noble J,** Ahing SI, Karaikos NE, Wiltshire WA. Nikkellallergie. *Dutch Journal of Dentistry.* 115(5):24 May 9, 2008.
9. Locker D, **Noble J,** Wexler E, Jockovic A. Discrepancy between self-ratings of and satisfaction with oral health. *J Dent Res Abstract* 3350 (Spec Iss A) 2004.
10. **Noble J,** Jokovic A, Locker D. Development and preliminary evaluation of a questionnaire to measure oral-health-related quality of life in 8-10-year-old children. *J Dent Res* 82 (Spec Iss A) 2003.
11. **Noble J,** Hawkins RJ, Locker D. The patient acceptability and costs of topical fluoride foam vs. varnish. *J Dent Res* 81(Spec Iss A) 2002.
12. Munro CA, Shoichet MS, Cao X, Wong MKK, Aubert IA, **Noble J,** Midha R. Bioartificial grafts for repair of peripheral nerve injuries. *Soc Neurosci Abst* 25:214, 1999.
13. Shoichet MS, Midha R, Cao X, **Noble J,** Munro CA, Wong M. Investigating a new entubulation strategy to overcome peripheral nerve injuries. *Summer Bioengineering Conference Abstracts* 1:751-752, 1999.
14. Midha R, **Noble J,** Prasad V, Munro CA. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. *J Reconstruct Microsurg* 14(8):595, 1998.
15. Prasad V, **Noble J,** Munro CA, Midha R. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. *Can J Neurol Sci* 25(Supp2):S74, 1998.

## ABSTRACTS AND PRESENTATIONS (CON'T)

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16. Midha R, **Noble J**, Prasad V, Munro CA. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. *Neurosurgery* 43(3):714-715, 1998.
17. **Noble J**, Karaikos N, Hechter FJ, Hassard TH, Wiltshire WA. Quantification of Stress on Palatal and Alveolar Bone with the Placement and Removal of an Orthodontic Temporary Anchorage Device at Different Angulations. American Association of Orthodontists Conference, Denver, Colorado, May, 2008.
18. **Noble J**, Kariaskos N, Wiltshire WA. Motivations and future trends of Canadian Orthodontic Residents. European Orthodontic Society, 100th annual session. Berlin, Germany, June 2007.
19. **Noble J**, Hawkins RJ, Locker D. The patient acceptability and costs of topical fluoride foam vs. varnish. Canadian Dental Association conference, Jasper AL, May 2003.
20. **Noble J**, Hawkins RJ, Locker D. The patient acceptability and costs of topical fluoride foam vs. varnish. IADR, San Diego CA, March 2002.
21. **Noble J**, Midha R, Munro C, Shoichet MS, Cao X, Dalton P, Wong MKK. Investigating a methodology to detect acidic fibroblast growth factor in vivo. 28th Southwestern Ontario Undergraduate Chemistry Conference. Brock University, March 2000.
22. Shoichet MS, Midha R, Cao X, **Noble J**, Munro C, Wong M. Investigating a New Entubulation Strategy To Overcome Peripheral Nerve Injury. 1999 Bioengineering Conference, Big Sky, Montana, June 1999.
23. **Noble J**, Midha R, Munro C, Schoichet MS, Cao X, Wong MKK. Design of a novel bioartificial graft for repair of peripheral nerve injuries. 27th Southwestern Ontario Undergraduate Student Chemistry Conference. University of Guelph, Ontario, March 1999.
24. Midha R, **Noble J**, Prasad VSSV, Munro CA. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. CNS, Seattle WA, November 1998.
25. Midha R, **Noble J**, Prasad VSSV, Munro CA. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. ASPN, Vancouver BC, May 1998.
26. **Noble J**, Humnicki A, Schroth B, Peanchitlertkajorn S, Simmons KE, Hechter FJ, Wiltshire WA. Motivations of orthodontic residents in Canada and the United States to treat patients with craniofacial anomalies and special needs. World Federation of Orthodontists Conference, Sydney, Australia, February, 2010.
27. **Noble J**, Peanchitlertkajorn S, Simmons KE, Wiltshire WA, Hechter FJ, Schroth B, Carmichael R. Resident Motivation for treating patients with special needs in Canada and the US. European Orthodontic Society Congress, Helsinki, Finland, June 2009.
28. **Noble J**, Dykun A, Ahing SI, Wiltshire WA, Hassard TH. Leaching of Nickel in Nickel-Titanium Orthodontic Archwires in vitro. European Orthodontic Society Congress, Helsinki, Finland, June 2009.
29. Halpern R, **Noble J**. Location and Presence of Permanent Teeth in a Complete Bilateral Cleft Lip and Palate Population. American Cleft Palate Conference, Scottsdale, Arizona, April, 2009.
30. **Noble J**, Hechter FJ, Karaikos N, Wiltshire WA. Resident Evaluation of Orthodontic Programs in the United States of America. International Association of Dental Research Conference, Toronto, Ontario, Canada, July, 2008.
31. **Noble J**, Hechter FJ, Karaikos N, Wiltshire WA. Future Clinical Practice Plans of Orthodontic Residents in Canada. European Orthodontic Society Congress, Lisbon, Portugal, June 2008.
32. **Noble J**, Hechter FJ, Kennedy SA, Karaikos N, Wiltshire WA. Resident Evaluation of Orthodontic Programs in Canada. European Orthodontic Society Congress, Lisbon, Portugal, June 2008.
34. Karaikos N, **Noble J**, Wiltshire WA. Access to Orthodontic care in Canada and the US. European Orthodontic Society Congress, Lisbon, Portugal, June 2008.
35. **Noble J**, Hechter FJ, Karaikos N, Wiltshire WA. Motivations and Future Plans of Orthodontic Residents in the US. Association of Orthodontics Conference. Denver, Colorado, 2008.
36. **Noble J**, Karaikos N, Wiltshire WA. Future provision of orthodontic care for patients with craniofacial anomalies and cleft lip and palate. American Cleft Palate Conference, Philadelphia, April 2008.
37. Wiltshire WA, **Noble J**, Karaikos N. Refuting the Evidence: Growth Modification in Severe Class II Malocclusions. European Orthodontic Society Congress, Berlin, Germany, June 2007.
38. Karaikos N, **Noble J**, Wiltshire WA. Force Dissipation in the Craniofacial Complex Using Common Orthodontic Appliances. Berlin, Germany, June 2007.
39. **Noble J**, Karaikos N, Wiltshire WA. A Survey of Canadian Orthodontic Residents. American Association of Orthodontics Conference. Seattle, Washington, May 2007.
40. **Noble J**, Karaikos N, Wiltshire WA. Bonding to Fluorosed Teeth: Is Microabrasion necessary? Canadian Dental Specialties Scientific Session, Montreal, Quebec, Sept 2006.
41. **Noble J**, Karaikos N, Wiltshire WA. In vivo performance of an adhesion promotor on fluorosed enamel. 11th international symposium on dentofacial development and function, Chicago Illinois, May 2006.
42. Karaikos N, **Noble J**, Wiltshire WA. Case report of five siblings with Class III malocclusion. 11th international symposium on dentofacial development and function, Chicago Illinois, May 2006.
43. Locker D, **Noble J**, Wexler E, Jokovic A. Discrepancy between self-ratings of and satisfaction with oral health. IADR, Honolulu, Hawaii, March 2004.
44. **Noble J**, Jokovic A, Locker D. Development and preliminary evaluation of a questionnaire to measure oral-health-related quality of life in 8-10 year-old children. AADR, San Antonio, Texas, March 2003.
45. Munro CA, Shoichet MS, Cao X, Wong MK, Aubert I, **Noble J**, Midha R. Bioartificial grafts for repair of peripheral nerve injuries. Society for Neuroscience 29th Annual Meeting, Miami Beach, October 1999.
46. Midha R, Munro CA, Prasad V and **Noble J**. Analysis of upper and lower extremity peripheral nerve injuries in a multi-trauma population. Spine and Peripheral Nerve Section of AANS/CNS, 14th Annual meeting, Palm Springs, CA, February 11-15 1998.