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**OFFICERS OF THE SOCIETY**

**President** Dr David Cottell, Electron Microscopy Laboratory, University College Dublin, Dublin, Ireland.

**Secretary** Professor Martin Steer, Department of Botany, University College Dublin, Dublin, Ireland.

**Treasurer** Dr Jim McLaughlin, NI Bioengineering Centre, University of Ulster, Co Antrim BT37 OQB, Northern Ireland.

**Public Relations Officer** Dr Heather Anderson, Department of Ophthalmology, Queen's University of Belfast, Belfast BT12 6BA, Northern Ireland.

**COMMITTEE MEMBERS**

Dr Eoin Gaffney

Department of Pathology, St James's Hospital, Dublin 8, Ireland.

Mr Jim McCrae

Central Electron Microscopy Laboratory, Queens University of Belfast, Belfast BT12 6BA, Northern Ireland.

**Venue:** University College Dublin, Dublin, Ireland.

**Organisers:** Dr David Cottell and Professor Martin Steer.

## RESEARCH COMMUNICATIONS - ORAL PRESENTATIONS

### **Stereological analysis of changes in retinal capillaries during diabetes including the effect of sulindac treatment**

H.R. Anderson, T.A. Gardiner and D.B. Archer

Department of Ophthalmology, The Queen's University of Belfast

### **The influence of redox on the attachment of *Bacteroides fragilis* to the mammalian HEp-2 cell line**

D. Le Blanc<sup>1</sup>, S. Patrick<sup>1</sup>, E. Dermott<sup>1</sup>, M. Tunney<sup>2</sup>, S. Gorman<sup>2</sup>, M. Goldner<sup>4</sup>, and K. Lee<sup>3</sup>

<sup>1</sup>Department of Microbiology and Immunobiology, School of Clinical Medicine, <sup>2</sup>School of Pharmacy, <sup>3</sup>Department of Anatomy, School of Biomedical Science, The Queen's University of Belfast, UK and <sup>4</sup>Department Microbiologie, Université Laval, Canada

### **The presence of Hepatitis C virus in liver cells of chronic Hepatitis C patients**

<sup>1</sup>J. Keenan, <sup>2</sup>S.S. Albloushi and <sup>1</sup>A. G. Shattock

<sup>1</sup>Department of Medical Microbiology, UCD and <sup>2</sup>Hepatology Unit, Beaumont Hospital, Dublin 9

### **Feeding behaviour and pharyngeal structure of *Artioposthia triangulata***

<sup>1</sup>C. Mc Gee, <sup>1</sup>I. Fairweather, and <sup>2</sup>R.P. Blackshaw

<sup>1</sup>School of Biology and Biochemistry, The Queen's University of Belfast and <sup>2</sup>Department of Agriculture and Food Studies, University of Plymouth

### **The effect of biomaterial surface microrugosity and hydrophobicity on ureteral stent encrustation**

MM. Tunney<sup>1</sup>, P.F. Keane<sup>2</sup> and S.P. Gorman<sup>1</sup>

<sup>1</sup>Pharmaceutical Devices Group, School of Pharmacy, The Queen's University of Belfast,

<sup>2</sup>Department of Urology. Belfast City Hospital, 97 Lisburn Road, Belfast BT9 7BL, UK

### **Quantitative analysis of dendritic spine number in dentate granule cells of the adult rat following passive avoidance learning**

A. O'Malley, C. O'Connell, and C.M. Regan

Department of Pharmacology. University College Dublin 4, Ireland

## RESEARCH COMMUNICATIONS - POSTER PRESENTATIONS

### **tip 2 an *Arabidopsis thaliana* mutant with disrupted root hair and pollen development**

E.Ryan<sup>1</sup>, MW. Steer<sup>1</sup> and L. Dolan<sup>2</sup>

<sup>1</sup>Department of Botany, University College Dublin and <sup>2</sup>John Innes Centre, Colney Lane, Norwich, UK

### **Quadrantic innervation of the external acoustic meatus in the rat**

F.J. Cooke and J. Folan-Curran

Department of Anatomy, University College Galway, Ireland

### **Neural elements in the chordae tendineae of the rat and guinea pig**

I. Ahmed and J. Folan-Curran

Department of Anatomy, University College Galway

### **Immunoreactive nerve fibres in the atrioventricular valves and chordae tendineae of the rat and guinea pig**

11. Ahmed, <sup>1</sup>J. Folan-Curran and O. Johansson<sup>2</sup>

<sup>1</sup>Department of Anatomy, University College Galway and <sup>2</sup>Department of Experimental Dermatology, Karolinska Institute Stockholm, Sweden

### **A study of density and innervation of guard and down hair follicles in the rat**

L.A. O Shea\* and J. Folan-Curran

Department of Anatomy, University College Galway

### **Microscopic examination of the surface microrugosity of retrieved ureteral stents**

MM. Tunney', MC. Bonner<sup>1</sup>, P.F. Keane<sup>2</sup> and S.P. Gorman<sup>1</sup>

<sup>1</sup>Pharmaceutical Devices Group, School of Pharmacy, The Queen's University of Belfast and <sup>2</sup>Department of Urology, Belfast City Hospital, 97 Lisburn Road, Belfast BT9 7BL, UK.

**Separation of elastin from collagen in emphysematous lungs. A scanning electron microscope study with 3D imaging**

M.D. O'Donnell, GA. Finlay, C.M. O'Connor and M.X. Fitzgerald

Department of Medicine and Therapeutics, University College, Dublin 4, Ireland

**Atomic force microscopy for imaging and studying properties of biomaterials**

P. Lemoine and J. McLaughlin

Northern Ireland Bio-Engineering Centre, School of Electrical and Mechanical Engineering, University of Ulster at Jordanstown.

**Characterisation of thin film and ultra-thin film diamond-like carbon for magnetic read/write head applications**

R. W. Lamberton, J. A. McLaughlin, P. Maguire and B. J. Meenan

NIBEC, School of Electrical and Mechanical Engineering, University of Ulster at Jordanstown, Shore Rd, Newtownabbey BT37 OQB, N. Ireland.

**Microstructure and composition of thin film phosphors grown by pulsed laser deposition**

C. Karner, P. Maguire, J.A. McLaughlin

NI. Bio-Engineering Centre & School of Electrical & Mechanical Eng., University of Ulster, Jordanstown, Co. Antrim.

**Characterisation of tin oxide patterned films using SEMI AFM, XPS, XRD following reactive ion etching in an argon environment**

C. Archer and P. Maguire

Northern Ireland Bio-Engineering Centre, School of Electrical and Mechanical Engineering, University of Ulster at Jordanstown, Shore Rd, Newtownabbey, BT37 OQB. N.Ireland.

**The influence of surface modification on the performance of thin film gold based biosensors**

M. Hyland, J.A. McLaughlin, D.M. Zhou and E.T. McAdams

IN BEST Centre, NIBEC, University of Ulster at Jordanstown, Newtownabbey, Co. Antrim, BT37 OQB, N. Ireland.

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