

**Irish Thoracic Society Annual Scientific Meeting
10th and 11th November 2017
Limerick Strand Hotel, Limerick**

Friday 10th November

07.30 – 08.00 Registration, tea and coffee – Shannon Suite

08.00 – 11.00 Poster Review and Parallel Discussions

08.00 – 09.30 Poster Review – Shannon Suite II and III

09.30 - 11.00 Parallel Poster Discussions

Chairs **1. COPD I – Shannon Suite II and III**
E. Moloney, Tallaght Hospital Dublin
M. Kelly, Altnagelvin Area Hospital, Derry

Chairs **2. Basic Science – Henihan Suite**
M. Keane, St. Vincent’s University Hospital, Dublin
K. O’Reilly, Mater Misericordiae University Hospital

Chairs **3. General Respiratory I – O’Brien Suite**
L. Cormican, Connolly Hospital, Dublin
D. Curran, Mercy University Hospital, Cork

Chairs **4. TB and Sleep – Wogan Suite**
K. Finan, Sligo University Hospital, Sligo
P. Branagan, Beaumont Hospital Dublin

Chairs **5. Lung Cancer – Harris Suite**
R. Morgan, Beaumont Hospital Dublin
M. Rogan, University Hospital Waterford

11.00 – 11.30 Tea and Coffee / Exhibition viewing - Shannon Suite

11.30 – 13.00 6. Oral Presentations I – Shannon Suite II and III

Chairs E. McKone, St Vincent’s University Hospital, Dublin
D. Murphy, Cork University Hospital, Cork

11.30 6.1. An Evaluation of the Effectiveness of the Joint Asthma and COPD Adviceline in Achieving the Proposed Service Objectives and Patient Outcomes
S. Keane, P. Kavanagh, A. Sheridan, A. Power, A. Jennings
Health Service Executive (HSE) Primary Care Division, HSE Health and Wellbeing Division, Asthma Society of Ireland (ASI)

11.40 6.2. Detecting the presence of Aspergillus in the asthmatic airway and its relationship to disease severity

A Sullivan^{1,3}, EB Hunt^{2,5}, S Lapthorne¹, C Ward⁴, J Eustace⁵, PM O'Byrne⁶, BJ Plant^{2,5}, J MacSharry^{1,3*}, DM Murphy^{2,5*}

¹APC Microbiome Institute, UCC, Cork, Ireland ²The Department of Respiratory Medicine, Cork University Hospital, Cork, Ireland ³Schools of Medicine and Microbiology, UCC, Cork, Ireland ⁴Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, UK ⁵HRB funded CRF UCC, Cork, Ireland ⁶The Michael G DeGroot School of Medicine, McMaster University, Hamilton, Ontario, Canada

*= Joint Senior Authors

11.50 6.3. A study to assess airway remodelling and the utility of low dose CT scoring to evaluate the asthmatic airway.

Hunt EB^{1,2,3}, James K⁴, Ward C⁵, Power S⁴, Sullivan A¹, Eustace JA³, O'Byrne P⁶, Plant BJ^{2,3}, Maher M^{3,4}, MacSharry J^{1*}, Murphy DM^{2,3*}.

¹Schools of Medicine and Microbiology, APC Microbiome Institute, University College Cork, Ireland

²The Department of Respiratory Medicine, Cork University Hospital, Cork, Ireland.

³The HRB Clinical Research Facility, University College Cork, Cork, Ireland.

⁴The Department of Radiology, Cork University Hospital, Cork, Ireland

⁵Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, UK.

⁶The Michael G DeGroot School of Medicine, McMaster University, Hamilton, Ontario, Canada

12.00 6.4. Predicting Peak Flow: Time series modelling of PEFR and dependence on inhaler adherence

Brennan I¹, Greene G¹, Cushen B¹, MacHale E¹, Costello RW^{1,2}

1. Clinical Research Centre, Smurfit Building Beaumont Hospital, RCSI, Dublin, Ireland.

2. Department of Medicine, RCSI, Dublin, Ireland.

12.10 6.5. Macrophage Migration Inhibitory Factor enhances *Pseudomonas aeruginosa* biofilms, a potential novel therapeutic for Cystic Fibrosis Patients.

A. O'Neill¹, A. Tynan¹, L. Mawhinney¹, S. Kennedy², E. Caraher², F. E. Poynton¹, M. Doroudian¹, A. N. McElroy¹, A. Fabre³, E. F. McKone³, M. E. Armstrong¹, G. Cooke², S. C. Donnelly^{1,4}.

¹Department of Clinical Medicine, School of Medicine, Trinity Biomedical Sciences Institute, Trinity College Dublin, Ireland. ² Dept. of Science and the Centre for Microbial Host Interactions, Institute of Technology Tallaght, Old Blessington Road, Dublin 24, Ireland. ³ St. Vincent's University Hospital and School of Medicine, University College Dublin, Dublin 4, Ireland; UCD Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Dublin 4, Ireland. ⁴Department of Clinical Medicine, Trinity Centre for Health Sciences, Tallaght Hospital, Ireland

12.20 6.6. Viral Respiratory Tract Infections in Patients with Cystic Fibrosis

Carter SC^{1,2}, Keogan B³, Coughlan S³, De Gascun C³, Gallagher CG^{1,2}, McKone EF^{1,2}

1. National Referral Centre for Adult Cystic Fibrosis, St Vincent's University Hospital Dublin 4

2. University College Dublin, Belfield, Dublin 4

3. National Virus Reference Laboratory, University College Dublin, Dublin 4

- 12.30** **6.7. Identifying Inflammatory Myopathies to optimise Interstitial lung disease treatment strategies**
O'Mahony AM¹, Riddell P¹, Murphy G², Ryan JG², Harney S², Tormey V³, Henry MT¹
¹Department of Respiratory medicine, Cork University Hospital, Cork, Ireland
²Department of Rheumatology, Cork University Hospital, Cork, Ireland
³Department of Immunology, University Hospital Galway, Galway, Ireland
- 12.40** **6.8. Characterisation of the effect of interleukin-17A (IL-17A) on Toll-like receptor 3 (TLR3) function in Idiopathic Pulmonary Fibrosis (IPF): a candidate novel mechanism for disease progression.**
Lucy Bergin¹, A.N. McElroy¹, G. Cooke², L. Mawhinney¹, A. Tynan¹, M. Doroudian¹, A. O'Neill¹, F. Poynton¹, C.M. Hogaboam³, N. Hirani⁴, M.E. Armstrong^{1*} and S.C. Donnelly^{1,5*}.
¹School of Medicine, Trinity Biomedical Sciences Institute, Trinity College, Dublin 2, Ireland; ²Department of Applied Science, Institute of Technology Tallaght, Dublin 24, Ireland; ³Department of Pathology, University of Michigan Medical School, Ann Arbor, MI, USA; ⁴MRC Centre for Inflammation Research, Queen's Medical Research Institute, University of Edinburgh, Edinburgh, UK; ⁵Department of Clinical Medicine, Trinity Centre for Health Sciences, Tallaght Hospital, Tallaght, Dublin 24, Ireland.
- 12.50** **Update from the Irish Thoracic Society Interstitial Lung Disease Registry**
Professor Anthony O'Regan, Galway University Hospital, Chair of the ITS ILD Registry Steering Committee
- 13.00 – 14.00** **Lunch - River Restaurant**
- 14.00 – 15.30** **7. Oral Presentations II – Shannon Suite II and III**
- Chairs** B. Rutherford, Galway University Hospital, Galway
M. Sheehy, Midland Regional Hospital, Mullingar
- 14.00** **7.1. To evaluate the role of bronchoscopic lung cryobiopsy in the multidisciplinary diagnosis of fibrotic hypersensitivity pneumonitis.**
Cullivan S¹, O'Mahony A¹, McCarthy J², Burke L², Henry M T¹.
1. Department of Respiratory Medicine, Cork University Hospital.
2. Department of Pathology, Cork University Hospital.
- 14.10** **7.2. Aerosolized nanodrug delivery system to inhibit Macrophage migration inhibitory factor in order to treat lung cancer**
M. Doroudian¹, F. E. Poynton¹, C. O'Reilly¹, K. Crosbie-Staunton², R. MacLoughlin³, A. Prina-Mello², M. E. Armstrong¹, L. Mawhinney¹, A. Tynan¹, A. N. McElroy¹, A. O'Neill¹, Y. Volkov², S. C. Donnelly^{1,4}
¹Department of Clinical Medicine, School of Medicine, Trinity Biomedical Sciences Institute, Trinity College Dublin, Ireland. ²Centre for Research on Adaptive Nanostructures and Nanodevices, Trinity College Dublin, Ireland. ³Aerogen, Galway Business Park, Dangan, Galway, Ireland. ⁴Department of Clinical Medicine, Trinity Centre for Health Sciences, Tallaght Hospital, Ireland
- 14.20** **7.3 Epidermal growth factor receptor (EGFR) mutated adenocarcinoma serum exosomes induce epithelial mesenchymal transition**

P Nadarajan^{1,2}, SG Chong^{1,2}, R Kane², G Cooke², A Fabre^{2,3}, MP Keane^{1,2}

¹Department of Respiratory Medicine, St. Vincent's University Hospital, Dublin

²University College Dublin, Ireland

³Department of Histopathology, St. Vincent's University Hospital, Dublin

14.30 **7.4. Expiratory flow limitation detected using neuromuscular electrical stimulation of abdominal-wall muscles.**

F.A. Laghi, T. Schnell, A. McLachlan, B. Casserly, M.J. Tobin, H. Shaikh. University of Limerick, GEMS, Limerick, Ireland; Liberate Medical LLC, Crestwood, Kentucky; Pulm Crit Care Med, Hines Jr. VAH and Loyola Univ. Chicago Stritch School of Med, Hines, Illinois.

14.40 **7.5 Ireland's First Thoracic Robotic-assisted Surgery (RaS) Programme: Experience and Early Outcomes at the Blackrock Clinic**

D. Mooney, V. Young, D. Eaton, K. Redmond

Department of Thoracic Surgery, Blackrock Clinic, Dublin, Ireland

14.50 **7.6 Increased sialic acid residues on alpha-one antitrypsin aids with resolution of inflammation**

Dunlea DM¹, McElvaney OJ¹, Lacey N¹, White MM¹, Marsh B², McCarthy C¹, Reeves EP¹ and McElvaney NG¹.

1. Irish Centre for Genetic Lung Disease, Department of Medicine, RCSI, Beaumont, Dublin 9.
2. Department of Critical Care Medicine, Mater Misericordiae University Hospital, Eccles Street, Dublin 1.

15.00 **7.7. Molecular Epidemiology of Multi- and Extensively-Drug-Resistant *Mycobacterium tuberculosis* in Ireland, 2001-2014**

E Roycroft^{1,2}, RF O'Toole^{2,3}, MM Fitzgibbon^{1,2}, L Montgomery¹, M O'Meara⁴, P Downes⁴, S Jackson⁵, J O'Donnell⁵, IF Laurenson⁶, AM McLaughlin⁷, J Keane⁷, TR Rogers^{1,2}

1. Irish Mycobacteria Reference Laboratory, Labmed Directorate, St. James's Hospital, Dublin, Ireland

2. Department of Clinical Microbiology, Trinity Translational Medicine Institute, Trinity College, Dublin, Ireland

3. School of Medicine, Faculty of Health, University of Tasmania, Hobart, Australia

4. Department of Public Health, Dr. Steeven's Hospital, Dublin, Ireland

5. Health Protection Surveillance Centre, Dublin, Ireland

6. Scottish Mycobacteria Reference Laboratory, Edinburgh, UK

7. Department of Respiratory Medicine, St. James's Hospital and Trinity Translational Medicine Institute Trinity College Dublin, Ireland

15.10 **7.8. Potential Autocrine Gremlin Signaling in Pulmonary Epithelial Cells**

Devlin, S., Pickering, M., Rochfort, K., McLoughlin, P.

School of Medicine & Medical Science, Conway Institute of Biomolecular & Biomedical Research, UCD, Belfield, Dublin 4.

15.20 **7.9 The effect of reduced levels of circulating alpha-1 antitrypsin (AAT) on immune cells in alpha-1 antitrypsin deficient patients**

Lacey N, McElvaney OJ, White MM, Lee MQ, Hoo MCS, McElvaney NG, Reeves EP.

Irish Centre for Genetic Lung disease, Department of Medicine, Education and Research Centre, Smurfit building, Beaumont Hospital, Dublin 9, Ireland.

- 15.30 – 16.00** **Tea and Coffee / Exhibition viewing – Shannon Suite**
- 16.00 – 17.30** **Irish Thoracic Society Guest Lectures – Shannon Suite II and III**
- Chairs** E. Mulloy, St. John’s Hospital, Limerick
B Casserly, University Hospital Limerick
- 16.00 – 16.45** **Laboratory Diagnosis of Respiratory Infections: the Ever Evolving Challenges**
Dr Tanya Curran, Clinical Scientist & Honorary Lecturer QUB, Royal Victoria Hospital Belfast
- 16.45 – 17.30** **An Historical Perspective of Understanding Diaphragm Performance: Clinical Implications**
Prof F. Dennis McCool, Chief of Medicine, Memorial Hospital of Rhode Island. Professor of Medicine, Alpert Medical School of Brown University. Editor-in-Chief, Lung
- 19.30 – late** **Drinks Reception and Gala Dinner**
- Friday 10th November - Parallel Business Meetings/Forums**
- 11.30 – 13.00** Forum of ANAIL – Association of Irish Nurses in Respiratory Care – Harris Suite
- 13.00 – 15.00** Forum of IICMS – Faculty of Respiratory – Henihan Suite
- 11.00 – 13.00** Forum of Chartered Physiotherapists in Respiratory Care – O’Brien Suite
- 14.00 – 16.00** COPD Outreach Meeting – O’Brien Suite
- 17.30 – 18.30** Irish Thoracic Society AGM – Harris Suite
- 09.30 – 16.00** **8. Irish Thoracic Society Paediatric Forum – Library Suite**
- 09.00 – 09.30** **Poster Viewing - Shannon Suite (Abstracts 8.10 – 8.12)**
- 09.30 – 10.30** **Research Session I**
Moderators Dr Muireann Ní Chroinin, Cork University Hospital
Dr Ruth O’Reilly, Our Lady’s Children’s Hospital, Crumlin
- 09.30** **8.1 Respiratory Health in Irish Children with Down Syndrome**
Diskin, C., Clarke, P., Cox, D.
Department of Respiratory Medicine, Our Lady’s Children’s Hospital, Crumlin, Dublin 12. Down Syndrome Ireland, Sandyford, Dublin.
- 09.40** **8.2 An evaluation of the effectiveness of use of audio-visual media in promoting vaccine uptake.**

JYM. Goh ¹, F. Ryan ², D. Mullane ³, M. O’Riordan ⁴, R.Greene ⁴, L.Gibson ³

¹School of Medicine, University College of Cork, Cork, Ireland; ²

Epidemiology and Public Health, Fourth floor, Adjoining Campus, Western Gateway Building, Western Road, Cork, Ireland; ³ Paediatrics & Child Health Department, CUH, Cork, Ireland; ⁴ Obstetrics & Gynaecology Health Department, CUMH, Cork, Ireland

09.50

8.3 Infection and Inflammation among children in the Study of Host Immunity and Early Lung Disease in Cystic Fibrosis: 2017

Butler D¹, Lennon J², Cox D^{1,2}, Grealley P³, Linnane B^{2,4,5}, McNally P^{1,2,6}

¹Cystic Fibrosis Centre, Our Lady’s Childrens Hospital Crumlin, Dublin 12, ² National Children’s Research Centre, Our Lady’s Childrens Hospital Crumlin, Dublin 12, ³Cystic Fibrosis Centre, Tallaght Hospital, Dublin 24, ⁴Cystic Fibrosis Centre, Department of Paediatrics, University Hospital Limerick, ⁵ Department of Paediatrics, University of Limerick, ⁶Department of Paediatrics, Royal College of Surgeons in Ireland, Our Lady’s Children’s Hospital Crumlin, Dublin 12

10.00

8.4 The prevalence of Pseudomonas Aeruginosa infection over a ten year period in children with Cystic Fibrosis attending Our Lady’s Children Hospital, Crumlin

K Al Shidhani, R O’Reilly, S Javadpour, N O’Sullivan, P McNally, D Cox

¹National Children Research Centre, ² Respiratory department, Our Lady’s Children Hospital, Crumlin, Dublin, Ireland, ³ Microbiology department, Our Lady’s Children Hospital, Crumlin, Dublin, Ireland

⁴ Royal College of surgeons of Ireland

10.10

Titration of NIV therapy in children – simple or complex?

Prof Paul McNally, Our Lady’s Children’s Hospital, Crumlin

10.30 – 10.45

Tea and coffee

10.45

CF Research Network

Moderator

Dr Barry Linnane, University Hospital Limerick

10.45

CF:INK Network Update

Dr Jenny Lennon, CF research co-ordinator, CF:INK and Our Lady’s Children’s Hospital, Crumlin

11.00

CF:INK Future Plans

Prof Paul McNally, Our Lady’s Children’s Hospital Crumlin

11.15

Research Networks: To grow and sustain

Speaker to be confirmed

12.00

MBW from research to clinic

Speaker to be confirmed

12.45 – 13.30

Lunch

13.30 – 14.45

Research Session II

Moderator	Dr David Mullane, Cork University Hospital
13.30	8.5 Aerosol delivery in infants using the blow-by method. C. O’Toole ¹ , J. McGrath ¹ , M. Byrne ¹ , G. Bennett ² , M. Joyce ² , R.J. MacLoughlin ² ¹ Dept. of Physics, NUI Galway, Galway, Ireland, ² Aerogen, IDA Business Park, Dangan, Galway, Ireland
13.40	8.6 In Vitro Comparison of Face Mask versus Hood Delivery in Adult and Paediatric Asthma N. Lynch ¹ , R. Bradley ¹ , L. Sweeney ² , M. Joyce ² , S. Ní Mhurchú ² , I. McDonnacha ² , R.J. MacLoughlin ² , B.D. Higgins ¹ . ¹ Physiology, National University of Ireland Galway, ² Aerogen Ltd., Dangan, Galway.
13.50	8.7 Cystic Fibrosis Urinary Biomarker Study (CUBS) Interim analysis K AL Shidhani ^{1,2} , D Cox ^{1,2} , B Linnane ³ , G Parekh ⁵ , J O'Rourke ¹ , R Reilly ¹ , P McNally ^{1,2,4} ¹ National Children Research Centre; ² Paediatrics Cystic Fibrosis centre, Our Lady’s Hospital for sick children, Dublin, Ireland; ³ Paediatrics Cystic Fibrosis centre, University Hospital Limerick, Limerick, Ireland; ⁴ Royal College of Surgeons of Ireland; ⁵ Mologic Laboratories, Bedford, UK
14.00	8.8 Orkambi: The Cork Paediatric Experience Cork University Hospital M Flanagan, D Donovan, C Murphy, E Keating, R Jennings, P Shanahan, J Crowley, K Cronin, D Mullane, M Ní Chróinín, Cork University Hospital.
14.10	8.9 Radiological Findings of Pulmonary Aspiration in Children – Interim analysis I Gorman, C Cunningham, S Monaghan S, P McNally, Royal College of Surgeons, Our Lady’s Children’s Hospital Crumlin (OLCHC), Dublin 12
14.20	Congenital Thoracic Masses – Common Sense Management Mr. Jonathan McGuinness, Cardiothoracic Surgeon, Our Lady’s Children’s Hospital, Crumlin, Dublin
14.45 – 15.00	Tea and coffee
15.00 – 16.00	Clinical Reviews
Moderator	Dr Mike Williamson, Children’s University Hospital, Temple Street.
15.00	Suspected PCD clinical cases Prof Paul McNally, Our Lady’s Children’s Hospital, Crumlin
15.20	‘Has my patient got Primary Ciliary Dyskinesia?’ Professor Jane Lucas, Primary Ciliary Dyskinesia Centre, NIHR Biomedical Research Centre, University of Southampton, UK
16.00	Prize-giving and close

Saturday 11th November

08.00 – 08.30	Registration, tea and coffee – Shannon Suite
08.30 – 11.00	Poster Review and Parallel Discussions
8.30 – 09.45	Poster Review – Shannon Suite II and III
09.45 –11.00	Parallel Poster Discussions
Chairs	9. Asthma – Shannon Suite II and III M. Butler, St Vincent’s University Hospital J. Rendall, Belfast City Hospital, Belfast
Chairs	10. COPD II – Harris Suite R. Fahy, St James’s Hospital, Dublin T. O’Connor, Mercy University Hospital, Cork
Chairs	11. General Respiratory II – Wogan Suite S. Foley, University Hospital Waterford D. O’Riordan, St James’s Hospital, Dublin
Chairs	12. ILD & Cystic Fibrosis – Library Suite E. McGrath, St Vincent’s University Hospital Dublin C. Gunaratnam, Beaumont Hospital Dublin
Chairs	13. Thoracic Surgery & Interventional Pulmonology – City View Suite M. Kennedy, Cork University Hospital, Cork V. Young, St James’s Hospital, Dublin
11.00 – 11.30	Tea and Coffee / Exhibition viewing – Shannon Suite
11.30 – 13.00	Irish Thoracic Society Guest Lectures
Chairs	A. O’Brien, University Hospital Limerick J. Hayes, Cavan Monaghan Hospital Group
11.30 – 12.15	Occupational Lung Disease: A Medley Professor Paul Cullinan, Professor of Occupational and Environmental Respiratory Disease, Imperial College, (National Heart and Lung Institute) and Royal Brompton Hospital London
12.15 – 13.00	The UK National Optimal Lung Cancer Pathway – Pie in the sky or just what we need? Professor David Baldwin, Consultant Physician, Nottingham University Hospitals, Honorary Professor of Medicine, University of Nottingham

13.00 – 13.15 **Prize giving and close**

13.15 **Lunch – River Restaurant**

Saturday 11th November - Parallel Forum

10.00 – 13.00 **Primary Care Respiratory Society of Ireland (PCRSI) Meeting – O'Brien Suite**

Chair: N Flynn

10.30 – 11.00 Introduction to PCRSI, *Chairman Dr Derek Forde*

11.00 – 12.00 "No Steroids Downstairs", *Dr Derek Forde*

12.00 – 13.00 Asthma Update, *Dr Dermot Nolan, Secretary, PCRSI Clinical Lead in Asthma*

13.00 **Lunch**

CPD Points Awarded