



## Spotlight

# PROFESSOR DENYS N. WHEATLEY: GREAT IN TRIPLICATE – SCIENTIST, SCHOLAR, ARTIST



### CURRICULUM VITAE

#### Education

1958-1961	BSc (London)
1961-1963	PhD (London)
1964-1967	Research Fellow, Dept Path., Univ. of Aberdeen (Sir Alistair Currie).
1968-1970	MRC Travelling Fellow / USPHS Fellow
1970-1974	Senior Research Fellow, Dept Path., University of Aberdeen
1974-1978	Lecturer (Asst Prof)
1978-1980	Senior Lecturer (Assoc Prof)
1980-2005	Reader/Professor
1982	DSc, University of Aberdeen
1982	FIBiol
1984	FRCPath
2010	FBS

#### Academic achievements

##### (other degrees and positions)

2002	MD (h.c.) Semmelweis Medical University, Budapest, and Visiting Professor.
2003	Kharazmi Award for International Science and Technology, Iran.
2003	Visiting Professor, Wayne State University Medical School.
2007	Full Foreign Member, Ukrainian Academy of Medical Sciences.
2008	MD (h.c.) Odessa State Medical University, Odessa, and Visiting Professor.
2012	MD (h.c.) Pécs Medical University, Pécs, Hungary.

#### Appointments:

1978-1981	<b>Meetings Secretary</b> , British Society for Cell Biology
1985-1988	<b>Consultant</b> , Osprey Ltd
1990-2004	<b>Non-Executive Director</b> , BioCure Ltd
1990-2000	<b>Co-Founder</b> , Cancer Treatments International (Davös/Zürich)
1998-	<b>Editor-in-Chief</b> , <i>Cell Biology International</i>
1999-	<b>Founder of BioMedES</b> , Ltd Company in 2008

- 2000-2008 **Secretary General**, International Federation for Cell Biology  
 2000- **Founder and Editor-in-Chief**, *Cancer Cell International* 1<sup>st</sup> BMC Independently Edited Online Journal  
 2004- **Founder and Editor-in-Chief**, *Theoretical Biology and Medical Modelling*  
 2006- **Editor-in-Chief**, *Oncology News*  
 2006- **Chief Scientific Officer**, Bio-Cancer Treatments International (Hong Kong)  
 2007-2010 **Chairman**, Enterprise Music Scotland (EMS)  
 2008-2012 **President**, International Federation for Cell Biology  
 2012- **Past President**, International Federation for Cell Biology

**Editorial board:** many journals, including: *Water, BMC Cancer, Physiological Chemistry and Physics... etc.*

### **Academic Societies**

Member of many Cell Biology and Medical learned societies, on which many committee membership and official positions have been or are held.

### **Other Activities (Leisure):**

2000/2002/2005/2013: Four Art Exhibitions (Book entitled *BipolArt*, published by Springer, 2012 – ISBN-978-94-007-4871-2)

Cellist, currently playing with:

- World Doctors Orchestra
- European Doctors Orchestra
- Aberdeen Chamber Orchestra
- Amicus Orchestra, Glasgow
- Grampian Concert Orchestra
- Inverurie Orchestra

Swimming, hill-walking and gardening

### **Publications (summary)**

Primary Research articles: > 270

Reviews and Editorials: > 60

Chapters in books: 10

Books: 6

Abstracts/meeting proceeding (too numerous to list)

## **MAJOR AREAS OF RESEARCH**

1. **Carcinogenesis**; elucidation of 7-OH-DMBA as the metabolite of DMBA as the active carcinogen and adrenal apoplexy inducing agent (re: Huggins' breast carcinoma and adrenal work on rats).
2. Full description and structural analysis of **primary cilia** in relation to cell cycle (continues to date), and understanding of its pathobiological significance (e.g. PKD).
3. Search for proteins involved in the regulation of transitions from one **cell cycle** stage to the next (notably G2 to M), later found to be cyclins (McArdle Cancer Institute, with Dr G. Mueller). Work on Bleomycin and the cell cycle.
4. Analysis of **amino acid** uptake, pool formation, and effects of their depletion on cell cycle and death.
5. Kinetics of **protein turnover** in normal and cancer cells. Recognition of the first turnover proteins indicating post-synthetic effects on all cell proteins at a rapid rate – led to the concept of Drips.
6. Major cancer research and clinical work on **Arginine Restriction** – CTI, BCT
7. The significance of **diffusion** in living systems – major theoretical studies.
8. Studies over many years on the structure, nature and role of **intracellular water** in cells.