**Multiple versions below….**

**Long & numbery**

**Dr. Dawn Bowdish** is a the Canada Research Chair (Tier 2) in Aging & Immunity. Since 2009 where her team of post-doctoral fellows, undergraduate and graduate students study how macrophages recognize and destroy *Streptococcus pneumoniae,* the major cause of pneumonia in the elderly. Using a combination of animal models and human samples her lab has is uncovering how ageing, and age-associated inflammation affects the development of myeloid cells, which ultimately impairs monocyte and macrophage function and how the microbiota of the upper respiratory tract becomes permissive to *Streptococcus pneumoniae* colonization with age. She has published over 80 manuscripts, review articles and book chapters. She has won a number of early career awards including the Pfizer-ASPIRE award and the G. Jeannette Thorbecke Award from the Society of Leukocyte Biology. She has received recognition for her teaching and mentorship in the form of the Department of Pathology’s “Best Teacher Award” and by a nomination from her trainees for the President’s Award for Excellence in Graduate Student Supervision. She has received funding from the CIHR, NSERC, ORF, NIH, the Labarge Optimal Aging Initiative and the Lung Association to understand why the elderly are susceptible to pneumonia and to develop novel preventative therapies. She sits on the Board of Directors of the Ontario Lung Association and advocates to increase research funding for lung health and advocates for a comprehensive Lung Health Action Plan for Ontario.

Long & Scientific:

Dr. Dawn Bowdish is an Associate Professor at McMaster University and a Canada Research Chair in Aging & Immunity. Dr Bowdish did her PhD at the University of British Columbia with Prof. Bob Hancock where she studied the anti-infective properties of antimicrobial peptides. This work led to a patent and the formation of a small biotech company. She did her post-doctoral work with Prof. Siamon Gordon at the University of Oxford and studied how macrophages recognize the *Mycobacterium tuberculosis*. She started her lab at McMaster University (Hamilton, ON) in 2009 where her team of post-doctoral fellows, undergraduate and graduate students study how macrophages recognize and destroy *Streptococcus pneumoniae,* the major cause of pneumonia in the elderly. Using a combination of animal models and human samples her lab has is uncovering how ageing, and age-associated inflammation affects the development of myeloid cells, which ultimately impairs monocyte and macrophage function and how the microbiota of the upper respiratory tract becomes permissive to *Streptococcus pneumoniae* colonization with age. She has published over 80 manuscripts, review articles and book chapters. She has won a number of early career awards including the Pfizer-ASPIRE award and the G. Jeannette Thorbecke Award from the Society of Leukocyte Biology. She has received funding from the CIHR, NSERC, ORF, NIH, the Labarge Optimal Aging Initiative and the Lung Association to understand why the elderly are susceptible to pneumonia and to develop novel preventative therapies. She sits on the Board of Directors of the Ontario Lung Association and advocates to increase research funding for lung health and advocates for a comprehensive Lung Health Action Plan for Ontario. When she’s not pushing back the boundaries of science she’s pushing back the boundaries of patience raising two strong-willed children.

**Short:**

Dr. Dawn Bowdish is an Associate Professor at McMaster University and the Canada Research Chair in Aging & Immunity. Dr Bowdish did her PhD at the University of British Columbia with Prof. Bob Hancock where she studied the anti-infective properties of antimicrobial peptides. This work led to a patent and the formation of a small biotech company. She did her post-doctoral work with Prof. Siamon Gordon at the University of Oxford and studied how white blood cells called macrophages recognize the bacteria that causes tuberculosis. She started her lab at McMaster in 2009 where her team of post-doctoral fellows, undergraduate and graduate students study how macrophages recognize and destroy *Streptococcus pneumoniae,* the major cause of pneumonia in the elderly. She has won a number of early career awards including the Pfizer-ASPIRE award and the G. Jeannette Thorbecke Award from the Society of Leukocyte Biology. She has received funding from the CIHR, NIH, NSERC, the Labarge Optimal Aging Initiative and two awards from the Lung Association to understand why the elderly are susceptible to pneumonia and to develop novel preventative therapies. She sits on the Board of Directors of the Ontario Lung Association and advocates to increase research funding for lung health and advocates for a comprehensive Lung Health Action Plan for Ontario. When she’s not pushing back the boundaries of science she’s pushing back the boundaries of patience raising two strong-willed children.

**Shorter:**

Dr. Dawn Bowdish is an Associate Professor at McMaster University and a Canada Research Chair in Aging & Immunity. Dr Bowdish did her PhD at the University of British Columbia with Prof. Bob Hancock where she studied the anti-infective properties of antimicrobial peptides. She did her post-doctoral work with Prof. Siamon Gordon at the University of Oxford and studied how white blood cells called macrophages recognize the bacteria that cause tuberculosis. She started her lab at McMaster in 2009 where her team of post-doctoral fellows, undergraduate and graduate students study the process of macrophage phagocytosis, how macrophages influence the composition of the microbiome of the upper respiratory tract and how they recognize and destroy *Streptococcus pneumoniae,* the major cause of pneumonia in the elderly. She has won a number of early career awards including the Pfizer-ASPIRE award and the G. Jeannette Thorbecke Award from the Society of Leukocyte Biology. Her lab is funded by the CIHR, NSERC, the Labarge Optimal Aging Initiative and the Lung Association. When she’s not pushing back the boundaries of science she’s pushing back the boundaries of patience raising two strong-willed children.

**Lay Public**

Dr. Dawn Bowdish is an Associate Professor at McMaster University and a Canada Research Chair in Aging & Immunity. Dr. Bowdish investigates what makes the elderly vulnerable to pneumonia, how age-associated inflammation, chronic inflammatory diseases and anti-bacterial immunity changes as we get older. By understanding the aging immune system she hopes to discover novel treatments to protect older adults from infection by improving their immune systems. She also sits on the Board of Directors of the Ontario Lung Association and advocates to increase research funding for lung health and advocates for a comprehensive Lung Health Action Plan for Ontario.

**Kids**

Dr. Dawn Bowdish wants to know why we get sick and how we get better. She and her team of scientists study how immune cells called macrophages decide which germs are good for us and which ones are bad for us and need to be destroyed.