

Dr. Christoph Fusch, MD, PhD, FRCPC

NAME Christoph Fusch

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EDUCATIONAL BACKGROUND

Degrees and Diplomas

1997 PhD, University of Berne

1985 MD, University of Tübingen

Qualifications, Licensures and Certifications

2008 FRCPC (Fellow Royal College of Physicians of Canada), Royal College of Physicians, Hamilton, Ontario, Canada

2008 German Exam and Board Certification In Pediatric Intensive Care, Board of Physicians, Federal State of Mecklenburg-Vorpommern, Rostock.

2006 German Exam and Board Certification In Laboratory Medicine as specific for Pediatrics, Board of Physicians, Federal State of Mecklenburg-Vorpommern, Rostock.

1998 German Exam and Board Certification In Neonatology, Board of Physicians, Federal State of Mecklenburg-Vorpommern, Rostock

1993 Board Certification in Pediatrics, Board of Physicians, Federal State of Baden-Wuerttemberg, Stuttgart, Germany.

1984 Board of Physicians, Physician, Government of the Federal State of Baden-Wuerttemberg, Stuttgart ("Approbation"), Germany.

FRCPC, Pediatric Intensivist, Neonatologist, Pediatrician, Research fellow

Other Specialized Training

- 2011 Chair of Work Group., "Report of the Maternal-Newborn Advisory Committee's Retro-Transfer Work Group" was approved at the, Provincial Council for Maternal and Child Health for submission to the Ministry of Health and Long-Term Care.
- 2011 Accredited Group Learning Activity of the Framework of the CPD Options for the Maintenance of Certification Program, "Managing Disruptive Physicians", The Royal College of Physicians and Surgeons of Canada.

CURRENT STATUS AT MCMASTER

2008 - present Professor, Pediatrics, CAWAR, Health Sciences, McMaster University

PROFESSIONAL ORGANIZATIONS

- 2008 - present Canadian Pediatric Society, Member
- 2008 - present Canadian Neonatal Network, Member
- 2013 European Society for Parenteral and Enteral Nutrition (ESPN), Faculty member
- 2013 Society of Pediatric Research (SPR), Member
- 1997 - 2008 Working Group Neonatology, Mecklenburg-Vorpommern, Member
- Working Group Stable Isotopes, Member
- German Society of Sports Medicine (Deutsche Gesellschaft für Sportmedizin), Member
- German Pediatric Society, Member
- Swiss Society for Pediatrics (Schweizerische Gesellschaft für Pädiatrie, SGP), Member
- Swiss Society for Neonatology (Schweizerische Gesellschaft für Neonatologie), Member
- German Society of Newborn Screening (Deutsche Gesellschaft für Neugeborenen-Screening, DGNS), Vice-president from 2007, President from 2007-2012, Member of the Executive Committee since 2012

German Pediatric Society (Deutsche Gesellschaft für Kinder- und Jugendmedizin, DGKJ), Member

German Society for Neonatology and Pediatric Critical Care (Gesellschaft für Neonatologie u. Pädiatrische Intensivmedizin, GNPI), Member

European Society for Pediatric Research (ESPR), Member

EMPLOYMENT HISTORY

University Appointments

2008 - present Professor, Pediatrics, CAWAR, Faculty of Health Sciences, McMaster University

Academic

2011 - present Faculty Member (Cross Appointment), McMaster University, Faculty of Engineering, School of Biomedical Engineering, Ontario, Canada

2008 - present Jack Sinclair Chair in Neonatology, McMaster University Medical Centre, Hamilton, Ontario, Canada

2008 - 2013 Division Head, Neonatology, Department of Pediatrics, McMaster University Medical Centre, Department of Medicine / Faculty of Health Sciences, Pediatrics, Hamilton, Ontario, Canada

2008 - 2009 Medical Director, Neonatal Intensive Care Unit, McMaster University Medical Centre, Hamilton, Ontario, Canada

2002 - 2008 Full Professor (C4) and Chair of Pediatrics and Neonatology, University Children's Hospital Greifswald, Germany

1997 - 2002 Full Professor (C3) of Pediatrics and Neonatology, University Children's Hospital, Greifswald, Germany

1992 - 1997 Fellow and Consultant, University Women's Hospital, Berne, Switzerland

Training

1991 - 1992 Research fellow, University Children's Hospital (Inselspital), Berne, Switzerland

1989 - 1990 Research fellow, MR Unit, University Children's Hospital, Zurich, Switzerland

1985 - 1989 Resident, University Children's Hospital, Tübingen, Germany

1984 - 1985 Research resident, University Children's Hospital, Tübingen, Germany

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Editorial Boards

2014 - present Member, Molecular and Cellular Pediatrics, Molecular and Cellular Pediatrics
Editorial Board member

2007 - present Committee Member, The Open Nutrition Journal, Committee Member

Journal Referee

Pediatric Research

The Journal of Pediatrics

American Journal of Clinical Nutrition

International Journal of Sports Medicine

Journal of Nutrition

Journal of the American College of Nutrition

Journal of Clinical Densitometry

Hormone Research

Acta Paediatrica

European Journal of Obstetrics & Gynecology and Reproductive Biology

Zeitschrift für Geburtshilfe und Neonatologie

Journal of Paediatrics and Neonatology

Journal of Applied Spectroscopy

Biology of the Neonate

Early Human Development

Hormone and Metabolic Research

Clinical Nutrition
European Journal of Public Health
Journal of Respiratory Research
Archives of Diseases in Childhood
BMJ Journal
Pediatrics
British Journal of Nutrition
Journal of Applied Nutrition
Pediatric Infectious Diseases

External Grant Reviews

2007 - present Georgia National Science Foundation, Georgia

2014 - 2015 Committee member, Canadian Institutes of Health Research (CIHR), CIHR Fellowships - PostPhD” Awards Committee

2011 - 2014 Committee member, SickKids Foundation partnered with CIHR, Institute of Human Development, Child and Youth Health (IHDCYH), National Grant Review Committee, peer review of applications for New Investigator Awards.

2013 Reviewer, Canadian Institutes of Health Research, CIHR Peer Review Committee member for “Social & Developmental Aspects of Children’s & Youth’s Health”

2010 PSI Foundation, Toronto

2013 – 2015 German Research Foundation (DFG)

2003 - 2005 German Academic Foundation (selection of applications for stipends and review of application for stipends of MD students).

2001 University of Western Australia, Raine Foundation

Reviewer for Scientific Conferences

2015 Pediatric Academic Societies (PAS)

2014 Pediatric Academic Societies (PAS)

2014	European Society for Parenteral and Enteral Nutrition (ESPEN)
2013	Deutsche Gesellschaft für Kinder- und Jugendmedizin (DGKJ)
2013	Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI)
2013	The European Society for Clinical Nutrition and Metabolism (ESPEN)
2012	The Pediatric Academic Societies (PAS)
2012	The European Society for Clinical Nutrition and Metabolism (ESPEN)
2011	The Pediatric Academic Societies (PAS)
2010	The European Society for Clinical Nutrition and Metabolism (ESPEN)
2009	The Pediatric Academic Societies (PAS)
2008	Deutsche Gesellschaft für Kinder- und Jugendmedizin (DGKJ)
2007	Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI)
2005	Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI)
2004	European Society of Parenteral & Enteral Nutrition (ESPEN), Lissabon
2001	European Society of Parenteral & Enteral Nutrition (ESPEN), München
2001	European Society Paediatric Research (ESPR), Helsinki
2000	Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI), Berlin
2000	European Society of Parenteral & Enteral Nutrition (ESPEN), Madrid
2000	European Society Paediatric Research (ESPR), Rhodos
1996	Societe Francophone pour la Recherche en Neonatologie, Paris

Peer Review Activities

- 2014 - present Advisory Board, IKARIA, National Neonatal Advisory Board member
- 2013 - present Unique ORCID Identifier: <https://orcid.org/0000-0002-8137-4383>
- 2013 - present Advisory Board, Danone-Milupa, Advisory Board member

Other Professional Activities

- 2012 - 2014 Member of Academic Affairs Committee for Deutsche Gesellschaft für Kinder- und Jugendmedizin (DGKJ)
- 2009 - present Neonatal Search Committee, McMaster Children's Hospital
- 2009 - present Chair, Neonatal Research Committee, McMaster Children's Hospital
- 2006 - 2012 Child Nutrition Committee member for Deutsche Gesellschaft für Kinder- und Jugendmedizin (DGKJ)
- 2011 McMaster University, McMaster University, MD Admissions Interview Weekends
- 2009 - 2010 Obstetrics and Gynaecology Selection Committee, McMaster Children's Hospital
- 2009 Co-Moderator Platform session, 2009 PAS Annual Meeting, Baltimore, USA
- 2008 Norddeutsche Gesellschaft fuer Kinderheilkunde annual conference. (Congress President)
- 2005 - 2008 Director (ad-interim), Division of General Pediatrics (Infectious Diseases, Allergology, Pulmology, Nephrology Gastroenterology and Rheumatology) and Outpatient Clinic, Medical Faculty/Hospital of Greifswald, Germany
- 2000 - 2008 Director, Newborn Screening Program for Mecklenburg-Vorpommern (Federal State), Medical Faculty/Hospital of Greifswald, Germany
- 1999 - 2008 Director of the Neonatal Fellowship Program, Medical Faculty/Hospital of Greifswald, Germany
- 1997 - 2008 Director, Division of Neonatology and Pediatric Critical Care incl. Pediatric Cardiology and Ultrasound, Medical Faculty/Hospital of Greifswald, Germany
- 2005 - 2007 Executive Director, University Children's Hospital, Germany
- 2002 - 2006 Committee Member for Structural Affairs at the Medical Faculty, Germany
- 2002 - 2006 Council Member - Faculty of Medicine, Griefswald, Germany
- 2005 Neo AG M-V Annual Conference. (Congress President)
- 2003 - 2005 Medical Director of the University Hospital of Greifswald, Germany
- 2002 - 2005 President, Committee for Quality Control in Neonatology, Board of Physicians of the Federal State of Mecklenburg-Vorpommern, Germany

- 2004 Future Health Care in Northern Europe. (Congress President)
- 2004 Society of Neonatal Screening Annual Conference. (Congress President)
- 2004 International Symposium about Developmental Care. (Congress President)
- 2002 Nasal CPAP in Neonatal Intensive Care. (Congress President)
- 2000 - 2002 Council of the University of Greifswald
- 2001 Neo AG M-V Annual Conference. (Congress President)
- 2001 Neonatology and Pediatric Intervention Annual Conference. (Congress President)
- 1999 Neonatology and Pediatric Intervention Annual Conference. (Congress President)
- 1999 40 Years of Neonatal Care in Greifswald. (Congress President)
- Search committee "C3-Professor Micro-biology"
- Search committee "C3 Neuro-radiology", Chair
- Search committee "C3 Community Medicine, Supply Research"
- Search committee "C3 Pediatric Dentistry"
- Search committee "C4 Gynecology and Birth Assistance"
- Search committee "W2 Pediatric Rheumatology", Chair
- Search committee "W3 Medical genetics", Chair
- Search committee "W3 Pediatric Surgery"

AREAS OF INTEREST

Research

1. growth, energy turnover, body composition and nutrition, obesity
2. placenta research
3. normal and disturbed brain maturation
4. neonatal birth cohorts: community medicine structured clinical care

Teaching

1. guidelines; structures approach and clinical pathways strategies for scientific work
2. neonatal intensive care: development of teaching material

HONOURS AND AWARDS

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| 2012 | Osmolality - Safety Assessment of Individualized Fortification on Human Milk for VLBW Infants". Young Investigators Award, Asian Society for Pediatric Research, Seoul, Korea (Senior Author) |
| 2012 | Osmolality - Safety Assessment of Individualized Fortification on Human Milk for VLBW Infants. Best Presentation by a Student Award, Annual Neonatal & Maternal-Fetal Medicine Research Day, University of Toronto, Toronto, Ontario, Canada (Senior Author) |
| 2011 | Annual Neonatal and Maternal-Fetal Medicine Research Day, University of Toronto, Toronto, Ontario, Canada, best poster presentation by a trainee (Senior Author) |
| 2006 | Implementation of an inter-hospital Quality Management System in Neonatology, Venturesail, donated by the Federal State of M-V, Rostock, Germany |
| 2005 | Annual Meeting of the Pediatric Society of Northern Germany, Celle, Germany, "Finkelstein-Preis" best scientific presentation (Senior Author) |
| 2005 | Annual Meeting of the Society of Neonatology and Pediatric Critical Care, Magdeburg, Germany, best poster presentation (Senior Author) |
| 1999 | Annual Meeting of the German Pediatric Society, Munich, Germany, best poster presentation (Senior Author) |

COURSES TAUGHT

Undergraduate Teaching

Bachelor of Health Sciences (Hons.)

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| 2010 Jul | - | 2015 Jun | Inquiry Supervisor, 3H03, course | (4) |
| 2014 Jul | - | 2015 Jun | Project Supervisor, 4D03, student | (3) |
| 2014 Jul | - | 2015 Jun | Senior Project Supervisor, 4B06, project | (2) |

2010 Jul - 2014 Jun Thesis Supervisor, 4A09, student (10)

Physician Assistant Education Program

2010 Jul - 2011 Jun Supervisor, Elective, LP (Longitudinal Placement) 4 students (4)

Undergraduate Medical

2012 Jul - 2015 Jun Supervisor, Elective, Visiting Student, week per student (7)

2011 Jul - 2012 Jun Supervisor, Block Elective, week (1)

2010 Jul - 2011 Jun Interviewer, Admissions, Multiple Mini Interview, weekend (1)

Undergraduate Medical Clerkship

2009 Jul - 2015 Jun Tutor, Pediatrics, rotation (6)

2009 Jul - 2014 Jun Presenter, Teaching Session, Pediatrics, occasion (5)

2009 Jul - 2014 Jun Supervisor, Pediatrics - Specialty Clinics, half-day (70)

Graduate Teaching

Biomedical Engineering

2013 Jul - 2014 Jun Thesis Examiner, Internal or External, MASc, candidate (1)

Medical Sciences

2012 Jul - 2013 Jun External Examiner, MSc, candidate (1)

2010 Jul - 2011 Jun Chair, Oral Defence, MSc, candidate per year (1)

Postgraduate Teaching

Obstetrics & Gynecology and its subspecialties

2010 Jul - 2011 Jun Presenter, Academic Half-Day: WIHIRIP Rounds - Individualized fortification of breast milk to enhance postnatal growth of premature born infants - MDCL 2218 - June 15, 2011 (1)

Pediatrics and its subspecialties

2014 Jul - 2015 Jun Advisor/Mentor, Resident, resident per year (1)

2014 Jul - 2015 Jun Facilitator/Resource, Journal Club, session (1)

2014 Jul - 2015 Jun Judge, Research Day, day (1)

2014 Jul - 2015 Jun Member, Fellowship Training Committee, year (1)

2014 Jul - 2015 Jun Member, Residency Training Sub Committee, year (1)

2014 Jul - 2015 Jun Presenter, Academic Half Day/Core Curriculum, presentation (4)

2014 Jul - 2015 Jun Presenter, Grand Rounds, presentation (1)

2014 Jul - 2015 Jun Presenter, Journal Club, presentation (1)

2012 Jul - 2015 Jun Research Advisor, year (17)

2014 Jul - 2015 Jun Supervisor Block Elective, week (1)

2014 Jul - 2015 Jun Supervisor, On Call, night (26)

2014 Jul - 2015 Jun Supervisor, Inpatient, day (45)

2008 Jul - 2014 Jun Member, Subspecialty Residency Training Committee, year (2)

2008 Jul - 2014 Jun Presenter, Academic Half-Day, occasion (10)

2008 Jul - 2014 Jun Presenter, Clinical Teaching Session/Seminar/Rounds/Journal Club, occasion (72)

2012 Jul - 2014 Jun Presenter, Grand Rounds, occasion (2)

2010 Jul - 2014 Jun Supervisor, Clinical, Inpatient, day (244)

- 2011 Jul - 2012 Jun Examiner, Mock Orals, Program, exam (1)
- 2010 Jul - 2011 Jun Member, Subspecialty Residency Training Committee, year - Subspecialty Committee Member for Neonatology (1)
- 2009 Jul - 2010 Jun Interviewer, Admissions, hour (1)
- 2008 Jul - 2009 Jun Examiner, Observed Structured Clinical Examination, exam (1)

Other

Continuing Education (for programs organized outside of the CE office in Health Sciences)

- 2013 Jul - 2015 Jun Speaker, occasion (15)

Faculty Development

- 2008 Jul - 2009 Jun Workshop Participant, occasion (27)

Additional Educational Contributions

Additional Teaching

- 2006 - 2007 Ernst-Moritz-Arndt University of Greifswald, Germany, Lecture: Child and adolescent medicine General clinical examination methods, Seminar: General Pediatrics and Pediatric Surgery Station internship pediatrics and pediatric surgery Lecture Community Medicine: Neonatology (1)
- 2006 - 2006 Ernst-Moritz-Arndt University of Greifswald, Germany, Elective: morbidity risk, prevention strategies and screening in the lecture Pediatric Dentistry: pediatric aspects (1)
- 2005 - 2006 Ernst-Moritz-Arndt University of Greifswald, Germany, Lecture: Child and adolescent medicine General clinical examination methods Seminar: General Pediatrics and Pediatric Surgery Station internship pediatrics and pediatric surgery Lecture: Community Medicine: Neonatology (1)
- 2005 - 2005 Ernst-Moritz-Arndt University of Greifswald, Germany, Pediatric Seminar Lecture Dentistry: pediatric aspects otherwise as Medical Director of the University Hospital (1)

- 2004 - 2005 Ernst-Moritz-Arndt University of Greifswald, Germany, Pediatric main lecture
Community Medicine: Lecture otherwise as Medical Director of the University
Hospital (1)
- 2003 - 2004 Ernst-Moritz-Arndt University of Greifswald, Germany, Pediatric Seminar
otherwise as Medical Director of the University Hospital (1)
- 2003 - 2004 Ernst-Moritz-Arndt University of Greifswald, Germany, Pediatric main lectures
Community Medicine: Lecture otherwise as Medical Director of the University
Hospital (1)
- 1999 - 2003 Ernst-Moritz-Arndt University of Greifswald, Germany, Lecture: Child and
adolescent medicine General clinical examination methods Seminar: General
Pediatrics and Pediatric Surgery Station internship pediatrics and pediatric
surgery lecture Community Medicine: neonatology (1)
- 1998 - 2002 Ernst-Moritz-Arndt University of Greifswald, Germany, Pediatric Clinical
Investigation Course (1)
- 1997 - 1999 Ernst-Moritz-Arndt University of Greifswald, Germany, Lecture: Child and
adolescent medicine General clinical examination methods Seminar: General
Pediatrics and Pediatric Surgery Station internship pediatrics and pediatric
surgery (1)
- 1997 - 1997 University of Bern, Switzerland, Group lessons Pediatric Block teaching
pediatrics and obstetrics
Course: neonatology, midwifery school Ms Hospital Berne (1)
- 1996 - 1996 University of Bern, Switzerland, Group lessons Pediatric Block teaching
pediatrics and obstetrics, Course: neonatology, midwifery school Ms Hospital
Berne (1)
- 1995 - 1995 University of Bern, Switzerland, Group lessons Pediatric Block teaching
pediatrics and obstetrics Course: Rheumatology, KWS School Inselspital,
Course: neonatology, midwifery school Ms Hospital Berne (1)
- 1994 - 1994 University of Bern, Switzerland, Group lessons Pediatric Block teaching
pediatrics and obstetrics Course: Rheumatology, KWS School Inselspital
Course: neonatology, midwifery school Ms Hospital Berne (1)
- 1993 - 1993 University of Bern, Switzerland, Group lessons Pediatric Block teaching
pediatrics and obstetrics Trade: Infectious Diseases and Rheumatology, KWS
School Inselspital Course: neonatology, midwifery school Ms Hospital Berne
(1)

1992 - 1992	University of Bern, Switzerland, Group lessons: Pediatric Block teaching pediatrics and obstetrics Trade: Infectious Diseases and Rheumatology, KWS school, Inselspital Course: neonatology, midwifery school Ms Hospital Berne (1)
1990 - 1990	Children's Hospital, Zürich, Switzerland, Course: Gastroenterology for KWS-schoolgirls (1)
1989 - 1989	Eberhard-Karls University Tübingen, Germany - Investigation of infants and young children in small placement of Pediatrics (Ward) Children's Medical Investigation Course Everyday diseases in childhood Tutor for the Students (1)
1988 - 1989	Eberhard-Karls University Tübingen, Germany - Investigation of infants and young children in small groups. Placement of Pediatrics (station) Children's Medical Investigation Course emergencies in childhood tutor for the Students (1)
1988 - 1988	Eberhard-Karls University Tübingen, Germany - Investigation of infants and young children in small placement of Pediatrics (station) Children's Medical Investigation Course (1)

SUPERVISORSHIPS

Supervisory Committees

Medical Sciences

2012 Jul - 2013 Jun	Member, Supervisory, Committee, MSc, student per year (5)
2009 Jul - 2010 Jun	Member, Supervisory, Committee, MSc, student per year (1)

Rehabilitation Science Graduate Program

2014 Jul - 2015 Jun	Member, Supervisory, Committee, MSc, student (1)
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Other

Additional Teaching

2010 - 2010	Undergraduate students (4 students) (1)
2009 Jul - 2010 Jun	Undergrad Medical Student Supervision (1)

Biomedical Engineering

2011 Jul - 2012 Jun Thesis Supervisor, MSc, student per year (1)

McMaster teaching outside FHS

2012 Jan - present Supervisor, Supervisory Committee, Biomedical Engineering Masters Student (1)

Medical Sciences

2011 Jul - 2016 Jun Thesis Supervisor, MSc, student per year (15)

2012 Jul - 2013 Jun Thesis Supervisor, MSc: Anaam Ali, Naomi Fink, Jennifer Chin, Preeya Raja, Tarushika Vasanthan (5)

RESEARCH FUNDING

Grants Peer Reviewed (Primary Investigator's name is the first name listed)

2013 Jun - 2018 May Deborah Louise O'Connor, Sharon Unger, Sam Mcleod Doesburg, Christoph Fusch, Jill Krysti Hamilton, Sheila Margaret Innis, Alexander Joseph Kiss, Steven Paul Miller, Paul Bernard Pencharz, Joanne F. Rovet, Prakeshkumar Shah, Alain Stintzi, Emily Wing Yun Tam, Margot Jane Taylor, Christopher Tomlinson, Randi Zlotnik Shaul, Optimizing Mothers' Milk for Preterm Infants., CIHR, NIH, NHRDP, Canadian Institutes of Health Research (CIHR), Operating, \$1,999,675.00

2013 Jan - 2017 Mar Fusch, Christoph, Atkinson Stephanie, El Helou Salhab, Thabane Lehana, The effect of individualized fortification of breast milk on somatic growth and neurodevelopmental outcome in preterm infants - The IFO study, Grant, Canadian Institutes of Health Research (CIHR), Research - Resubmission, \$472,066.00

2013 Apr - 2016 Mar Fusch, Christoph, Berry Leslie, Brash John, Chan Anthony, Selvaganapathy Ravi, Development of a pumpless lung assist device which acts as an artificial placenta for neonates with respiratory failure, Grant, Canadian Institutes of Health Research (CIHR), Collab/Partnerships Research - Collaborative Health Research Project, \$273,358.00

- 2013 Apr - 2016 Mar Fusch, Christoph, Berry Leslie, Brash John, Chan Anthony, Selvaganapathy Ravi, Development of a pumpless lung assist device which acts as an artificial placenta for neonates with respiratory failure, Grant, Natural Sciences and Engineering Research Council of Canada (NSERC), Collab/Partnerships Research - Collaborative Health Research Project, \$272,356.00
- 2011 - present The Hospital for Sick Children, Donor Milk for Improved Neurodevelopmental Outcomes (DoMINO). Clinical Trial: In response to evidence supporting the benefits of mothers' own milk, there is insufficient data to judge whether donor milk will result in better neurodevelopment at an unprecedented rate (DoMINO study).
- 2014 Oct - 2015 Mar Dr. Victoria Galea, Dr. Christoph Fusch, Dr. Salhab el Helou, Quantitative modeling of spontaneous movements in infants, NeuroDevNet (NDN) Strategic Initiative 2014 Award, NeuroDevNet (NDN) Strategic Initiative 2014 Award, Research - New Project, \$26,454.98
- 2013 Jan - 2015 Jan Dr. Sourabh Dutta, Dr. Christoph Fusch, Effect of Cohorting Patients by Level of Acuity to Designated Areas within a Neonatal Intensive Care Unit, Grant, Hamilton Academic Health Sciences Organization, Education Research, \$196,880.00
- 2009 Dec - 2014 Nov Fusch, Christoph, Internally Sponsored Research Funds - Research Lab Support - Operating, Grant, McMaster University (MAC), Research - New Project, \$500,000.00
- 2013 Apr - 2014 Mar Shoo Lee, CIHR Team in Maternal Infant Care, Subgrant, Canadian Institutes of Health Research (CIHR), \$35,000.00
- 2012 - 2013 Non-Invasive Application of Surfactant: MISURF vs INSURE., Grant, Hamilton Health Sciences, New Investigator Fund, \$18,000.00
- 2012 - 2013 Dr. Thierry Lacaze, McMaster University Medical Centre, Comparison of Two Surfactant Preparations: Curosurf vs. BLES. Does Curosurf reduce the duration of mechanical ventilation in infants 24+0 to 29+6 weeks gestational age as compared to BLES? (a randomized controlled trial), Grant, CHAMO Innovation Funds, Children's Hospital of Eastern Ontario, Research - New Project, \$85,000.00
- 2009 Dec - 2013 Dec Fusch, Christoph, Internally Sponsored Research Funds - Research Lab Support - Salaries, Grant, McMaster University (MAC), Research - New Project, \$720,000.00
- 2012 Jun - 2013 Sep Dr. Sarah McDonald, Prevalence and Predictors of Exclusive Breastfeeding at Hospital Discharge, Grant, Canadian Institutes of Health Research (CIHR), Research - New Project, \$27,000.00

2009 Feb - 2011 Apr Fusch, Christoph, Infrastructure for metabolic research within the neonatal intensive care unit, Grant, McMaster University (MAC), Equipment - No subtype specified, \$99,237.00

2009 Apr - 2011 Mar Fusch, Christoph, Infrastructure for metabolic research within the neonatal intensive care unit, Grant, Canada Foundation for Innovation (CFI), Equipment - CFI Leaders Opportunity Fund, \$396,905.00

2009 Apr - 2011 Mar Fusch, Christoph, Infrastructure for metabolic research within the neonatal intensive care unit, Grant, Ontario Ministry of Research and Innovation (OMRI), Equipment - ORF-Research Infrastructure (ORF-RI), \$396,905.00

Grants (Primary Investigator's name is the first name listed)

2013 Jul - 2015 Jun Puttappa Shivanan, Sandesh Kira, Dutta Sourabh, Fusch Christoph, Huang Lennox, Sabri Kouros, Thomas Sumesh, Care Bundle to Improve Oxygenation in Newborns (CBION), Grant, Physicians Services Incorporated (PSI), Research - New Project, \$169,500.00

2013 Apr - 2015 Mar Fusch, Christoph, Improving growth and nutrition in preterm infants, Grant, Baxter Healthcare Corporation (BAXTER), Research - Donation, \$10,000.00

2012 Jan - 2013 Sep Dr. Christoph Fusch, COSMED USA, Body Composition of Preterm Infants (Pea Pod study). Clinical Trial: The purpose of this study is to establish background information on infant body composition so that it can be used as a reference. This information will provide insight into growth and nutrition of preterm infants, which can be used by physicians to make decisions regarding nutritional plans with the goal to obtain optimal growth in these infants. This study is supported by a research grant provided by COSMED, USA., Third Party or Industry Funded, COSMED USA, Inc., Research - New Project, \$118,000.00

2010 Apr - 2012 Mar Fusch, Christoph, A Phase 2b/3, Multi-center, Randomized, Double-Blind, Placebo Controlled Trial to Evaluate the Safety and Efficacy of Pagibaximab Injection in Very Low Birth Weight (VLBW) Neonates for the Prevention of Staphylococcal Sepsis, Subcontract, Biosynexus Incorporated (BIOSYNEXUS), Research - Clinical Trials, \$47,000.00

PATENTS AND COPYRIGHTS

2011 Artificial Placenta to Improve Gas Exchange in Newborn Infants with Severe Form of Respiratory Failure, United States, 61526288

- 2006 Fusch, C: Improving mechanical ventilation of newborn infants: Generation of noise superimposed quasi-periodic fluid streams. Deutsches Patentamt, No. 10 2006 012 737.4, Munich, submitted on March 17, 2006; accepted November 28, 2006, Germany, 1020060127374

LIFETIME PUBLICATIONS (Principal Author is the first name on each of the entries below)

Peer Reviewed Books

1. Naehrlich L, Stuhmann-Spangenberg M, Barbeno J, Bargoni J, Blankensteind O, Bremern W, Brunsmann F, Buchholz T, Ellemunterm H, Fusch C, Gembruch U, Hammermann J, Jacobeitb J, Junga A, Keimk V, Kopp I, Loffc S, Mayre S, Pfeiffer-Aulern S, Rossil R, Sitter H, Sternm M, Straßburgk C, Derichsa N. (2013). S2-Konsensus-Leitlinie, Diagnose der Mukoviszidose. (AWMF 026-023) unter Federführung der Gesellschaft für Pädiatrischen Pneumologie, <http://www.awmf.org/leitlinien/detail/II/026-023.html>.
2. Bachmaier N, Fusch C. (2013). Die perioperative Intensivbetreuung von Fruehgeborenen. Update Geburtshilfe und Perinatalmedizin. DOI:<http://dx.doi.org/10.1055/s-0032-1324957>. Geburtshilfe und Perinatalmedizin, George Thieme.

Peer Reviewed Contributions to Books

1. Natalie Bachmaier, Christoph Fusch. Die perioperative Intensivbetreuung von Fruehgeborenen. Jan 1, 2013.

Peer Reviewed Journal Articles

1. Bisanz JE, Enos MK, PrayGod G, Seney S, Macklaim JM, Chilton S, Willner D, Knight R, Fusch C, Fusch G, Gloor GB, Burton JP, Reid G. The microbiota at multiple body sites during pregnancy in a rural Tanzanian population and the effects of Moringa supplemented probiotic yogurt. *Appl Environ Microbiol.* 2015 Aug;81(15):4965-75. doi: 10.1128/AEM.00780-15. Epub 2015 May 15.
2. Rochow N, Landau-Crangle E, Fusch C. Challenges in breast milk fortification for preterm infants. *Curr Opin Clin Nutr Metab Care.* 2015 May;18(3):276-84. doi: 10.1097. PMID: 25807355.
3. Rochow N, Fusch G, Zapanta B, Ali A, Barui S, Fusch C. Target fortification of breast milk: how often should milk analysis be done? *Nutrients.* 2015 Apr 1;7(4):2297-310. doi: 10.3390/nu7042297. PMID: 25835073.
4. Fusch C, Pogorzelski D, Meyer CL, El Helou S, Maine C, Mertz D. Self-Disinfecting Siphons and Reduction of Pseudomonas Aeruginosa Bio-burden in a Neonatal Intensive Care Unit - A Prospective Quasi-Experimental Study. Mar 14, 2015.

5. Samiee-Zafarghandy S, Saugstad OD, Fusch C. Do we have an answer when it comes to providing extremely preterm infants with optimal target oxygen saturation? *Acta Paediatr.* 2015 Mar;104(3):e130-3. doi: 10.1111/apa.12840. Epub 2015 Jan 30.
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Book Chapter

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3. Fusch C. (2010). Ernährung, Bedarfsschätzungen für Energie, Nährstoffe und Flüssigkeit. In Jorch G, Hübler A (eds): Neonatologie – Die Medizin des Früh-und Reifgeborenen. Georg Thieme Verlag Stuttgart (ISBN 978-3-13-146071-4) p 150-151.
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5. Fusch C. (2010). Erkrankungen des Zentralnervensystems, Entwicklung des Zentralnervensystems. In Jorch G, Hübler A (eds): Neonatologie – Die Medizin des Früh-und Reifgeborenen. Georg Thieme Verlag Stuttgart (ISBN 978-3-13-146071-4) p 452-454.
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Non-refereed Journal / Conference Proceedings

1. Rochow N, Wu W, Chan E, Nagpal D, Fusch G, Selvaganapathy P, Monkman S, Fusch C. (2012). Integrated microfluidic oxygenator bundles for blood gas exchange in premature infants. IEEE 25th International Conference on Micro Electro Mechanical Systems (MEMS), Paris (pp. 957-960). (Conference paper).
2. Wu WI, Rochow N, Fusch G, Kusdaya R, Choi A, Selvaganapathy PR, Fusch C. (2012). Development of microfluidic oxygenators as lung assisting devices for preterm infants. MicroTAS, Paris. (Conference paper).
3. Wu WI, Rochow N, Fusch G, Kusdaya R, Choi A, Selvaganapathy PR, Fusch C. (2011). Development of microfluidic oxygenators as lung assisting devices for preterm infants. 15th International Conference on Miniaturized Systems for Chemistry and Life Sciences. Seattle (pp. 550–2). Conference paper.

Peer Reviewed Contributions to Recommendations and Guidelines

1. Agostoni C, Buonocore G, Carnielli V, De Curtis M, Darmaun D, Decsi T, Domellöf M, Embleton N, Fusch C, Genzel-Boroviczeny O, Goulet O, Kalhan S, Kolacek S, Koletzko B, Lapillonne A, Mihatsch W, Moreno L, Neu J, Poindexter B, Puntis J, Putet G, Rigo J, Riskin A, Salle B, Sauer P, Shamir R, Szajewska H, Thureen P, Turck D, van Goudoever J, Ziegler E; for the ESPGHAN Committee on Nutrition (2010). Enteral Nutrient Supply for Preterm Infants: Commentary From the European Society for Paediatric Gastroenterology, Hepatology, and Nutrition Committee on Nutrition. *Journal of Pediatric Gastroenterology and Nutrition*, 50(1): 85-91.
2. Fusch C, Conrad B (2009). Ernährung von Frühgeborenen.

3. Fusch C, Bauer K, Bohles HJ, Jochum F, Kolezko B, Krawinkel M, Krohn K, Muhlebach S. (2009). Neonatology/ Pediatrics – Guidelines on Parenteral Nutrition, Chapter 13. German Medical Science, 7: Doc 15.
4. Bohles HJ, Fusch C, Genzel-Boroviczeny O, et al. (2008). Recommendations on the consumption of drinks containing sugar by children and adolescents. *Monatsschrift Kinderheilkunde*,156:484-+.
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8. Koletzko,B., Goulet,O., Hunt,J., Krohn,K., Shamir,R. for the Parenteral Nutrition Guidelines Working Group*: Guidelines on parenteral nutrition of the European Society of Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN) and the European Society for Clinical Nutrition and Metabolism (ESPEN), Supported by the European Society of Paediatric Research (ESPR). *J Pediatr Gastroenterol Nutr.* (2005): 41: S1-87. Responsible for Chapter: Jochum F, Fusch C, Lyszkowska M, Ksiazek J (2005) Guidelines on Pediatric Parenteral Nutrition. Chapter: Fluid, Sodium, Potassium and Chloride.
9. Koletzko,B., Goulet,O., Hunt,J., Krohn,K., Shamir,R. for the Parenteral Nutrition Guidelines Working Group*: Report on the guidelines on parenteral nutrition in infants, children and adolescents. *Clinical Nutrition* (2005): 24:1105-1109 (*Fusch, C.: Member of Parenteral Nutrition Guidelines Working Group”).

Accepted for Publication

Book

1. Christoph Fusch. *Nutrition in Pediatrics: Basic Science and Clinical Applications*. 2014.

PRESENTATIONS AT MEETINGS

Poster Presentations

1. Vasanthan T, Rochow N, DeFrance B, Fusch G, Fusch C Dual closed-loop ex-vivo placental perfusion model: evidence for relevant LPS contamination and development of a procedure for depyrogenation International Federation of Placenta Association 2014 Conference Paris, France.

2. Manan, A, Rochow, N, Wu W, Fusch G, Selvaganapathy PR, Fusch C. Lung Assist Device for Term and Preterm Newborns with Severe Respiratory Failure: “Artificial Placenta”. Faculty of Health Sciences Research Plenary, McMaster University, Faculty of Health Sciences Research Plenary, McMaster University, Hamilton, Ontario, Canada, 2013.
3. Rochow N, Manan A, Monkman S, Fusch G, Wu, W-I, Selvaganapathy PR, Fusch C. Lung Assist Device for Term and Preterm Newborns with Severe REspiratory Failure: “Artificial Placenta” an update of development. Annual Meeting of the German Society of Neonatology and Pediatric Intensive Care, Germany Annual Meeting of the German Society of Neonatology and Pediatric Intensive Care, Germany, 2013.
4. Rochow N, Chan E, Fusch C. A Systematic Review of Artificial Placenta Development for Neonates with Respiratory Failure. 2012 Pediatric Academic Societies’ Annual Meeting Pediatric Academic Societies’ Annual Meeting in Boston, Massachusetts, USA, 2012. E-PAS2012:1535.612. Boston, Massachusetts, United States.
5. Chan E, Rochow N, Wu WI, Nagpal D, Fusch G, Selvaganapathy PR, Monkman S, Fusch C. Lung assist device for term and preterm newborns with severe respiratory failure: “Artificial Placenta”. Pediatric Academic Societies’ Annual Meeting in Boston, Massachusetts, USA, 2012. E-PAS2012:1535.593. Boston, Massachusetts, United States.
6. Manan A, Chan E, Rochow N, Wu W, Fusch G, Selvaganapathy PR, Fusch C. Artificial Placenta. Child Health Trainee Research Day at McMaster University, Hamilton, Ontario, Canada, June 2012. Child Health Trainee Research Day at McMaster University, Hamilton, Ontario, Canada, June 2012.
7. Fusch C, Gani M, Gallipoli, A Examining the Power of Echocardiogram results in assessing persistent patent ductus arteriosus. 10th Annual Neonatal and Maternal-Fetal Medicine Research Day, Toronto, Ontario, Canada, Apr 27, 2011.
8. Fusch C, Rochow N Placental Pathophysiology: Establishment and Validation of the Dual Closed Loop ex-vivo perfusion model of the isolated placenta. 10th Annual Neonatal and Maternal-Fetal Medicine Research Day, Toronto, Ontario, Canada, Apr 27, 2011.
9. Fusch, Christoph. NICU-Volume and VLBW-Infant Mortality: Effect of Volume versus Quality Cut-offs. 2nd Congress of the European Academy of Paediatrics, Nice, France, October 2008.
10. Fusch, Christoph. Levels of Lipids in Preterm Infants Fed breast Milk. 2nd Congress of the European Academy of Paediatrics, Nice, France, October 2008.

Invited Presentations

1. Target Fortifizierung von Muttermilch auf das Wachstum der Frühgeborenen - Deutschen Gesellschaft für Kinder- und Jugendmedizin (DGKJ) 2015 Conference Munich, Germany. Sep 5, 2015.
2. Placental Sampling and Perfusion - Human Placenta Workshop 2015. Queen’s University, Kingston, Ontario, Canada. Jul 15, 2015.

3. Erste Schritte und transatlantische Zusammenarbeit. Perinatal and Neonatal Epidemiology Symposium 2015. Greifswald, Germany. Jun 19, 2015.
4. Optimierte Ernährung mit Muttermilch. Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI) 2015 Conference. Stuttgart, Germany. May 21, 2015.
5. Human Milk and Human Milk Fortifiers for Preterm Infants. 3rd Neonatology CME: Human Milk & Human Milk Modifiers Conference. Cancun, Mexico. May 29, 2015.
6. Postnatal Growth Restriction and Individualized Fortification of Breast Milk. OptiMOM study Webinar. Toronto, Ontario, Canada. Apr 8, 2015.
7. The Inaugural Jack Sinclair Lecture 2015 - "A legacy for smart neonatal care". Grand Rounds, Dept of Pediatrics - McMaster University. Hamilton, Ontario, Canada. Apr 30, 2015.
8. Postnatal Growth Restriction and Individualized Fortification of Breast Milk. Medela's 10th International Breastfeeding and Lactation Symposium. Warsaw, Poland. Apr 18, 2015.
9. Postnatal Growth Restriction and Individualized Fortification of Breast Milk. Canadian National Perinatal Research Meeting (CNPRM) 2015. Montebello, Quebec, Canada. Feb 24, 2015.
10. Development of Microfluidic Oxygenators as Lung-Assist Device for Term and Preterm Infants. Monash Institute of Medical Research. Melbourne, Australia. Dec 10, 2014.
11. Target Fortification of Breast Milk, Betty H. Cameron Women's & Children's Hospital Wilmington, North Carolina, United States. Dec 2, 2014.
12. Why Nutrition Matters in Long-term Outcomes of the Premature Infant, Grand Rounds - Betty H. Cameron Women's & Children's Hospital Wilmington, North Carolina, United States. Dec 3, 2014.
13. Individualized Fortification of Breast Milk for Preterm Infants, Neonatal Dietitians Annual Education Day 2014 Toronto, Ontario, Canada. Nov 7, 2014.
14. Targetfortification ein Weg zu besserem Wachstum von Frühgeborenen? Sind Milchanalysatoren schon reif für den klinischen Gebrauch?, Deutschen Gesellschaft für Kinder- und Jugendmedizin (DGKJ) 2014 Conference Leipzig, Germany. Sep 14, 2014.
15. Individual Fortification & Implications; Optimal Growth, 2nd Annual International Conference On Human Milk Science and Innovation 2014 Santa Monica, California, United States. Sep 19, 2014.
16. Postnatal Growth Restriction and Individualized Fortification, Grand Rounds - CHU Sainte-Justine Children's Hospital Montreal, Quebec, Canada. Sep 30, 2014.
17. Change, Consistency, Quality, Teamwork - How can we achieve this in a large NICU? Hamilton, Ontario, Canada. Jun 5, 2014.

18. Promoting healthy growth and nutrition in preterm infants – a challenge for clinicians and researchers, XIIIth International Congress of Paediatric Laboratory Medicine (ICPLM) 2014 Istanbul, Turkey. Jun 21, 2014.
19. Individuelle Supplementierung von Muttermilch für die Frühgeborenen, Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI) 2014 Conf Bonn, Germany. Jun 27, 2014.
20. The role of lipids in pediatric and neonatal nutrition, Grand Rounds Presentation - Children's Hospital of Western Ontario London, Ontario, Canada. May 28, 2014.
21. Verbesserung des postnatalen Wachstums Frühgeborener - Ergebnisse aus der klinischen Forschung, Initiative of Neonatology and Pediatric Intensive Care Medicine (INPI) 2014 Conference Witten, Germany. Mar 27, 2014.
22. Verbesserung des postnatalen Wachstums von Frühgeborenen - Ergebnisse aus der klinischen Forschung Witten, Germany. Mar 25, 2014.
23. Improvement of Postnatal Growth: The Role of Variable Composition of Breast Milk, Obstetrics/Pediatrics Conference - MetroHealth Medical Cleveland, Ohio, United States. Feb 28, 2014.
24. Optimierung des Wachstums extremer Frühgeborener. 9. Deutscher Still- und Laktationskongress 2014 Berlin, Germany. Sep 25, 2013.
25. "Die Bedeutung der variablen Zusammensetzung von Muttermilch". 40. Jahrestagung (Annual Meeting), GNPI 2013 Conference Freiburg, Germany. Jun 7, 2013.
26. Manan A, Chan E, Rochow N, Fusch G, Wu WI, Selvaganapathy R, Fusch C. "Artificial Placenta": A Lung Assist Device for Neonates, 2nd Biomedical Engineering Symposium, McMaster University 2nd Biomedical Engineering Symposium, Hamilton, Ontario, 2013. Hamilton, Ontario, Canada.
27. Development of Microfluidic Oxygenators as Lung Assisted Devices for Term and Preterm Infants. 9th Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion. International Society for Pediatric Mechanical Cardiopulmonary Support. Hershey, Pennsylvania, USA, Hershey, Pennsylvania, United States. May 2013.
28. "Neuroimaging" "Blast from the Past" McMaster Children's Hospital Annual Neonatal Conference Niagara Falls, Ontario, Canada. Oct 22, 2012.
29. "Promoting healthy growth in Very Low Birth Weight infants – a challenge for clinicians and researchers" Hamilton, Ontario, Canada. Oct 18, 2012.
30. "Dual closed-loop ex-vivo perfusion of the human placenta". Queen's University 2012 Human Placenta Workshop Kingston, Ontario, Canada. Jul 10, 2012.

31. "Placenta, TPN, and EBM: What determines healthy growth in preterm babies?". IX Ibero-American Congress of Neonatology Belo Horizonte, Brazil. Jun 23, 2012.
32. "Is Less More? Gentle support to facilitate postnatal adaptation of preterm babies". IX Ibero-American Congress of Neonatology Belo Horizonte, Brazil. Jun 22, 2012.
33. "How to reduce nosocomial sepsis rates and associated morbidity/mortality: a practical approach". IX Ibero-American Congress of Neonatology Belo Horizonte, Brazil. Jun 21, 2012.
34. Chan E, Rochow N, Wu WI, Nagpal D, Fusch G, Selvaganapathy PR, Monkman S, Fusch C. Lung Assist Device for Term and Preterm Newborns with Severe Respiratory Failure: "Artificial Placenta". 1st Biomedical Engineering Symposium, Hamilton, Ontario, Canada, 2012.
35. Chan E, Rochow N, Wu WI, Nagpal D, Fusch G, Selvaganapathy PR, Monkman S, Fusch C. Lung Assist Device for Term and Preterm Newborns with Severe Respiratory Failure: "Artificial Placenta". Annual Neonatal & Maternal-Fetal Medicine Research Day, Toronto, Ontario, Canada, 2012.
36. "DOHaD – Implications for Neonatal Growth". Hamilton Health Sciences Cardiovascular Biology Seminary Series. Hamilton, Ontario, Canada. Apr 18, 2012.
37. "Strategien zur Verbesserung der neonatologischen Versorgung". Colloquium DGKJ (German Society of Pediatrics) Conference Deutsche Gesellschaft für Kinder- und Jugendmedizin (DGKJ) Conference 2012. Berlin, Germany. Mar 2012.
38. "Neues zur Ernährung des Frühgeborenen". Annual Perinatal Conference Witten, Germany. Jan 2012.
39. "Nutrition of preterm infants: actual aspects". Neonatal Symposium, University of Witten-Herdecke Neonatal Symposium, University of Witten-Herdecke, Witten, Germany. Jan 2012.
40. "Qualitätssteuerung in der Neonatologie". Association of Leading Child and Youth Doctors and Child Surgeons in Germany (VLKGD) Conference 2011 Plenary Session Berlin, Germany. Nov 2011.
41. "Integrierte Strategien zur Verbesserungen des Outcome – Neuroprotektion der Frühgeborenen". 2011 Deutsche Gesellschaft für Kinder- und Jugendmedizin (DGKJ) Conference Bielefeld, Germany. Sep 2011.
42. "Strategien zur Verbesserung der neonatologischen Versorgung". 2011 Deutscher Still- und Laktationskongress Berlin, Germany. Sep 2011.
43. Chan E, Rochow N, Wu WI, Nagpal D, Fusch G, Selvaganapathy PR, Monkman S, Fusch C. Lung Assist Device for Term and Preterm Newborns with Severe Respiratory Failure: "Artificial Placenta". 35th Annual Perinatal Investigators Meeting, Kingston, Ontario, Canada, 2011.
44. Novel Approaches to Nutritional management in Preterm Infants. 2011 Pediatric Academic Societies and Asian Society for Pediatric Research PAS. Denver, Colorado, United States. May 2011.

45. Is Less More? In Gentle approach for the care of preterm infants. Neonatal Grand Rounds St. Joseph's Hospital. London, Ontario, Canada. Apr 19, 2011.
46. Metabolism and nutrition in premature infants. Fudan University, Shanghai Medical School, Shanghai, China Fudan University. Shanghai, China. Apr 2011.
47. Fusch, C "Placenta, TPN and EBM – What determines healthy growth preterm infants?" Pediatric Research Rounds, Winnipeg, Manitoba, Canada. Feb 2011.
48. Fusch, C. "Less is more? Gentle support to facilitate postnatal adaptation preterm infants. Pediatric and Perinatal Grand Rounds, University of Manitoba Winnipeg, Manitoba, Canada. Feb 2011.
49. Fusch, C. "Placenta, TPN and EBM – What determines healthy growth preterm infants?" Pediatric Research Rounds, University of Manitoba, Winnipeg Winnipeg, Manitoba, Canada. Feb 2011.
50. Fusch, Christoph. Neurons or Nephrons – Fetal Environment and Later Health. 3rd Hamilton Health Research in the City Conference, Hamilton, Canada, February 2009.
51. Fusch, Christoph. Neonatal Brain lesions Part 1: Germinal Matrix Hemorrhage. Pediatric Neurology Rounds, McMaster Children's Hospital, Hamilton, ON, April 2009.
52. Fusch, Christoph. PAS Conference Highlights Neonatal Seminar, McMaster Children's Hospital, Hamilton, ON June 2009.
53. Fusch, Christoph. Provincial Neonatal Transport Education Program, McMaster Children's Hospital, Hamilton, ON October 2009.
54. Fusch, Christoph. NICU-Volume and VLBW-Infant Mortality: Effect of Volume versus Quality Cut-offs. 2nd Congress of the European Academy of Paediatrics, Nice, France, October 2008.
55. Fusch, Christoph. Levels of Lipids in Preterm Infants Fed breast Milk. 2nd Congress of the European Academy of Paediatrics, Nice, France, October 2008.
56. Fusch, Christoph. Issues in Nutrition of Preterm Infants and A Research Proposal. Obstetrics and Gynecology Rounds, McMaster Children's Hospital, Hamilton, ON, November 2008.
57. Fusch, Christoph. Nutrition and Growth in Preterm Infants. Neonatal Seminar, McMaster Children's Hospital, Hamilton, ON, November 2008.
58. Fusch, Christoph. Körperzusammensetzung und Wachstum bei Frühgeborenen. Pädiatrisches Symposium, Obergurgl, January 2003.
59. Fusch, Christoph. Ernährung des Neu- und Frühgeborenen: Aspekte für die Neonatalzeit und die spätere Entwicklung. 1. Pädiatrie alla Kart. 9.-10. May 2003, Dortmund.
60. Fusch, Christoph. Neonatal issues of SGA infants: SGA meeting. Rome, Italy, March 2002.

61. Fusch, Christoph. Who needs nutritional support in pediatric patients. ESPEN, Annual meeting, Glasgow, Scotland, August/September 2002.
62. Fusch, Christoph. Neonatale Aspekte von SGA-Kindern. Jahresversammlung der DGKJ, Leipzig, Germany, September 2002.
63. Fusch, Christoph. Measurement of body composition in children with Prader-Willi-Syndrome. Methods and pitfalls. Andrea Prader Memorial Symposium, Zürich, Switzerland, October 2002.
64. Fusch, Christoph. Nutritional efficacy and bifidogenicity of a new infant formula. Spanish Pediatric Association, Cadiz, Spain, June 2001.
65. Fusch, Christoph. Pediatric issues of nutritional support. ESPEN, Annual meeting, Munich, Germany, September 2001.
66. Fusch, Christoph. Neonatologie zwischen High-Tech und Känguruh. Chefärzte-Treffen, Jena, July 2000.
67. Fusch, Christoph. The use of DXA in body composition studies. ESPEN, Madrid, Spain, September 2000.
68. Fusch, Christoph. Endokrinologie der Plazenta. Arbeitsgemeinschaft Pädiatrische Endokrinologie, Salzburg, Austria, November 2000.
69. Fusch, Christoph. Physiological and pathological regulation of feto-placental leptin expression. Biochemical Society, Sussex, England., December 2000.
70. Fusch, Christoph. Messung der Körperzusammensetzung vom Neugeborenen bis zum Erwachsenen. Bedeutung stabiler Isotope. Diabetesinstitut „Gerhard Katsch“ Karlsburg, Germany, März 1999.
71. Fusch, Christoph. Wieviel Beatmung braucht ein Frühgeborenes? 17. Jahrestagung des Arbeitskreises für Neonatologie und Pädiatrische Intensivmedizin. Hannover, Germany, April 1999.
72. Fusch, Christoph. Hirnfehlbildungen, -blutungen und -infarkte bei Neu- und Frühgeborenen: bildgebende und sonographische Diagnostik. 7. Perinatologisches Symposium. Lübeck, Germany, May 1999.
73. Fusch, Christoph. Nichtinvasive Messung der Körperzusammensetzung. Kolloquium Forschungsinstitut für Tierzucht „Oskar Kellner“, Universität Rostock, Germany, March 1998.
74. Fusch, Christoph. Wachstum und Körperzusammensetzung von Neu- und Frühgeborenen. Vortrag beim Chefärztertreffen, Werbellinsee, August 1998. Vortrag beim Chefärztertreffen, Werbellinsee, August 1998.

75. Fusch, Christoph. Respiratorischer Support für das sehr kleine Frühgeborene – CPAP comes back. Univ-Kinderklinik Rostock, Germany, October 1998. Univ-Kinderklinik Rostock, Germany, October 1998.
76. Fusch, Christoph. Messung der Körperzusammensetzung und Wachstum von Neu- und Frühgeborenen. Fortbildung, Univ-Kinderklinik Ulm, October 1998. Fortbildung, Univ-Kinderklinik Ulm, October 1998.
77. Fusch, Christoph. Messung der Körperzusammensetzung und Wachstum von Neu- und Frühgeborenen. Fortbildung, 5. Greifswalder Weiterbildung für Ärzte, Schwestern und Hebammen. Greifswald, Germany, November 1998. Fortbildung, 5. Greifswalder Weiterbildung für Ärzte, Schwestern und Hebammen. Greifswald, Germany, November 1998.
78. Fusch, Christoph. Techniques for measuring total body water. Symposium on growth and endocrine changes in kidney disease. International Pediatric Nephrology Association. March 1995, Heidelberg, Germany. Symposium on growth and endocrine changes in kidney disease. International Pediatric Nephrology Association. March 1995, Heidelberg, Germany.
79. Fusch, Christoph. Messung der Körperzusammensetzung mit stabilen Isotopen. Validierung der Bio-Impedanz Analyse. Seminar an der Universitäts-Kinderklinik Heidelberg, April 1994.
80. Fusch, Christoph. Determination of Body Composition in Metabolic Studies. Kreischa Metabolic Days “Energy Utilization and Metabolic Syndrome”. Kreischa Metabolic Days “Energy Utilization and Metabolic Syndrome”. Stoffwechsel und Diabetesklinik, Klinik Bavaria, Kreischa, June 1994.
81. Fusch, Christoph. Body composition: Vergleich direkter und indirekter Messmethoden (BIA, D2O; DEXA). Erste Arbeitstagung der Sektion Angewandte Endokrinologie der Deutschen Gesellschaft für Endokrinologie, Nürnberg, May 1993.
82. Fusch, Christoph. A four-compartment model of body composition: combining deuterium dilution with dual-energy x-ray absorption. 5th European Congress on Obesity, Ulm, Germany, June 1993.
83. Fusch, Christoph. Messung der Körperzusammensetzung, Seminar am Forschungsinstitut für Kinderernährung, Dortmund, December 1993. Seminar am Forschungsinstitut für Kinderernährung, Dortmund, December 1993. Dortmund, Germany.
84. C. Fusch Metabolism and nutrition in premature infants Shanghai Medical School. Shanghai, China.

Educational Course

1. Methoden zur Beurteilung des Ernährungsstatus Teil II German Society of Pediatrics (DGKJ). Berlin, Germany. Apr 2, 2011.

Educational Course in Nutrition

1. Bedarf bei Früh und Reifgeborenen, Säuglingen, Kindern und Jugendlichen Germany. Berlin, Germany. Apr 2, 2011.

Educational course in Nutrition

1. Methoden zur Beurteilung des Ernährungsstatus Teil 1 German Society of Pediatrics (DGKL). Berlin, Germany. Apr 2, 2011.

Pediatric and Perinatal Grand Rounds

1. Fusch, C. "Placenta, TPN and EBN: What contributes to healthy growth in preterm babies?" Pediatric and Perinatal Grand Rounds, University of Calgary Calgary, Alberta, Canada. May 15, 2012.

ADMINISTRATIVE RESPONSIBILITIES

Division/Department

2000 - 2008	Director, Neonatal Fellowship program
1997 - 2008	Director, Division of Neonatology and Pediatric Critical Care incl. Pediatric Cardiology and Pediatric Ultrasound

External

2005 - 2008	Director (ad-interim), Division of General Pediatrics (Infectious Diseases, Allergology, Pulmology, Nephrology Gastroenterology and Rheumatology) and Outpatient Clinic
2001 - 2008	Director, Pediatric Department at the Community Hospital in Anklam, Germany (40 km distance from Greifswald)
2000 - 2008	Director, Newborn Screening Program for Mecklenburg-Vorpommern (Federal State), Germany
2005 - 2007	Executive Director, University Children's Hospital, Germany
2003 - 2005	Medical Director, University Hospital of Greifswald, Germany