The *Journal on Developmental Disabilities* greatly appreciates the support shown by the following in sponsoring this issue:



Community Living Huronia 339 Olive Street Midland, ON L4R 2R4

www.clhmidland.on.ca



160 Springhurst Avenue, Suite 300 Toronto, Ontario M6K 1C2

www.core-toronto.ca

August 15, 2012

A Personal Message from the Premier

On behalf of the Government of Ontario, I am delighted to extend warm greetings to the readers of this special joint issue of the *Journal on Developmental Disabilities* (JoDD) and the *International Journal of Down Syndrome* (IJDS).

Canada is a country that thrives on celebrating its diversity and uniqueness. Together, through the collective efforts of the many groups that call this country home, we have built a quality of life that is second to none.

I would like to recognize the role of JoDD and IJDS in advancing knowledge about Down syndrome and fostering dialogue about relevant issues in the field of developmental disabilities. Through research and education, you are helping to create an inclusive society that empowers people with a developmental disability to reach their full potential and become active participants in their communities.

I would also like to take this opportunity to send my regards to everyone attending the 2012 World Down Syndrome Congress in Cape Town, South Africa. I am confident that this year's program will provide all participants with the knowledge and tools they need to build on their work to improve the lives of people with Down syndrome.

Please accept my best wishes.

Dalton McGuinty Premier



July 3, 2012

Dear JoDD and IJDS readers:

The Board of Directors of the Ontario Association on Developmental Disabilities (OADD) is delighted to support the first ever joint publication of the <u>Journal on Developmental Disabilities</u> (JoDD) and the <u>International Journal on Down Syndrome</u> (IJDS). This undertaking is a collaborative effort of many individuals from both journals resulting in a very unique and inspiring publication.

The Journal on Developmental Disabilities, under the direct sponsorship of OADD, is Ontario based and is distinguished by its expertise in providing peer-reviewed research articles on various topics of interest and importance in the field of developmental disabilities by national and international authors. These professional journals assist in expanding knowledge and in helping readers to understand and define best practices within the field. JoDD has published two to three issues yearly since 1992 for a wide readership within Ontario, Canada, and internationally. JoDD is now published primarily on-line making access to its work more accessible world-wide. It is exciting to be able to work in partnership with the International Journal on Down Syndrome and to see such a wonderful product from these collaborative efforts.

Congratulations to both JoDD and IJDS for the tremendous effort and expertise in jointly putting this valued journal together. Special thanks to Roy Brown of IJDS for editing this issue and the IJDS and JoDD editorial boards for their support of the project. The result is in front of you now and will reach a wide and varied audience throughout the world.

Respectfully,

Wade E. Durling

Chair

Ontario Association on Developmental Disabilities

The Ontario Association on Developmental Disabilities exists to support professionals and students working and pursuing careers in the field of developmental disabilities.



1409 Sperling Avenue, Burnaby, BC V5B 4J8

Phone: (604) 444-3773 Fax: (604) 431-9248 Charitable Donation No.: 89890 7266 RR0001

June 14, 2012

Chief Editorial Board Journal On Developmental Disabilities Ontario Association on Developmental Disabilities 2 Surrey Place Toronto, ON M5S 2C2

Dear Members of Chief Editorial Board,

We are proud to collaborate with the Journal on Developmental Disabilities on the first joint issue of JoDD and the new International Journal of Down syndrome (formerly Down Syndrome Quarterly).

The Down Syndrome Quarterly journal was first published in March of 1996, by then Editor in Chief, Samuel J. Thios Ph.D. with the support of Denison University, The Nisonger Center and Ohio State University, and ran for seven years, until 2002. The Down Syndrome Research Foundation was honoured when asked to take over publication of the journal in 2005, and in 2006 we produced the next issue, a special issue covering topics from the World Down Syndrome Congress which was held in Vancouver in August of 2006. Since then Down Syndrome Research Foundation has published 12 issues with the most recent being the double issue in 2011.

Our thanks to the Editorial Board and Staff of JoDD, and to DSQ Co-Editors Dr. Jake Burack and Dr. Roy Brown for their efforts in assisting with this joint publication.

Yours sincerely,

Dawn A. McKenna Executive Director



Langdon Down Centre 2A Langdon Park Teddington TW11 9PS United Kingdom

The Board of Directors
OADD
2 Surrey Place
Toronto, ON
M5S 2C2
CANADA
oadd@oadd.org

17 July 2012

To our colleagues and friends at the Journal on Developmental Disabilities,

Down Syndrome International is very grateful to the Journal on Developmental Disabilities for co-sponsoring this special issue of the International Journal of Down Syndrome. For us it is the first issue under the Journal's new name, formerly Down Syndrome Quarterly.

We appreciate the co-operation as well as your enthusiastic support and interest in Down syndrome and your recognition of the need to make clear research and applied implications arising from this important area. Knowledge transfer, particularly in developing countries, is one of our missions, as well as passing on critical research to all families with children with Down syndrome who are increasingly being accepted into the world community.

This joint issue will be made available to all participants at the World Down Syndrome Congress to be held in Cape Town, South Africa from 15-17 August 2012.

Thank you for all your interest, support and practical help in making this happen!

Yours Sincerely

PENNY ROBERTSON O.A.M

Venny Robelson

CHAIR OF TRUSTEES – DOWN SYNDROME INTERNATIONAL

Reg Charity No. 1091843 Reg Company No. 4327941 T: +44 (0)20 8614 5124 E: <u>contact@ds-int.org</u>

W: www.ds-int.org



IJDS Volume 1, Number 1

Chief Editorial Board

Maire Percy, Ann Fudge Schormans, Lynn Martin, Jonathan Weiss

Assistant Editors

Carly McMorris, Melody Ashworth

Media Editor

Esther Ignagni

Editor Emeritus

Ivan Brown

OADD Board Representative

Joe Persaud

Production Manager

Jennifer Shaw

Design

Ted Myerscough

Production and Layout

Leah Gryfe

© Ontario Association on Developmental Disabilities

Table of Contents

Introduction to International Journal of Down Syndrome, Volume 1, Issue 1 and Journal on Developmental Disabilities, Volume 18, Issue 2
Roy I. Brown, and Jacob A. (Jake) Burack ix
Articles
Education and Cognition
Developing Numeracy in Young Adults with Down Syndrome: A Preliminary Investigation of Specific Teaching Strategies Lorraine Gaunt, Karen B. Moni, and Anne Jobling
The Impact of Verbal and Nonverbal Development on Executive Function in Down Syndrome and Williams Syndrome Oriane Landry, Natalie Russo, Tammy Dawkins, Philip D. Zelazo, and Jacob A. Burack
Families
A Study of Nigerian Families Who Have a Family Member with Down Syndrome Paul M. Ajuwon
Relations of Parental Perceptions to the Behavioural Characteristics of Adolescents with Down Syndrome Meghan M. Burke, Marisa H. Fisher, and Robert M. Hodapp
The Middle Years and Beyond: Transitions and Families of Adults with Down Syndrome Nancy S. Jokinen, Matthew P. Janicki, Mary Hogan, and Lawrence T. Force
Health
High Plasma Homocysteine and Low Serum Folate Levels Induced by Antiepileptic Drugs in Down Syndrome Antonio Siniscalchi, Giovambattista De Sarro, Simona Loizzo, and Luca Gallelli
Puberty, Menstruation and Pain in Australian and Irish Females with Down Syndrome Margaret. R. Kyrkou, Rebecca O'Rourke, Joan P. Murphy, Verity M. Bottroff, Dennis S. Smith, Hilary M. C. V. Hoey, Roy Brown
Book Review
BOOK REVIEW: <i>Encore Edie</i> by Annabel Lyon Susan Petko



EDITORS

Roy I. Brown, PhD

University of Victoria, Canada University of New England, Australia Jacob A. Burack, PhD McGill University, Canada

Management Co-ordinator

Dawn McKenna

Down Syndrome Research Foundation Burnaby, British Columbia

Associate Editors

Education

Monica Cuskelly, PhD University of Queensland

Language/Literacy

Elizabeth Kay-Raining Bird, PhD

Dalhousie University

Perception/Cognition Matthew Heath, PhD

University of Western Ontario

Genetics

Cheryl Wellington, PhDUniversity of British Columbia

Medicine/Neurology

Ira Lott, MD

University of California, Irvine

Social Development Deborah Fidler, PhD Colorado State University

Editorial Board

Armando Bertone, PhD

McGill University

David W. Evans, PhD

Bucknell University

Rhonda Faragher, PhD

Australian Catholic University

Tara Flanagan, PhD

McGill University

Jesus Florez, PhD

University of Cantabria

Robert Haslam, MD

Emeritus, University of Toronto

Robert M. Hodapp, PhD

Vanderbilt University

Grace Iarocci, PhD

Simon Fraser University

Anne Jobling, PhD

University of Queensland

Joanne Nye, PhD

University of Bristol

Natalie Russo, PhD

Syracuse University

Louis Schmidt, PhD

McMaster University

Naznin Virji-Babul, PhD

University of British Columbia

Daniel Weeks, PhD

University of Lethbridge

Jennifer Wishart, PhD

University of Edinburgh

Editorial Policy

The Journal on Developmental Disabilities is published three times yearly by the Ontario Association on Developmental Disabilities (OADD). The Association has established the following objective for the journal:

To foster and promote thoughtful and critical dialogue about relevant issues in the field of developmental disabilities, including those broader social issues that impact on persons with developmental disabilities.

Content

Each issue features a selection of research, conceptual, informational, and editorial papers. An issue may have a central theme. Reviews of relevant books, movies, websites, software, and other resources are welcomed, as are letters to the editor. In this way we strive to collectively enrich our understanding of issues, encourage stimulating debate among those working in the field, and improve services.

Language

Submissions are invited in either French or English and, if accepted, will be printed in the language of submission with an abstract in the other language. Submissions must be free of any gender and ethic bias. People-first language (e.g., persons with developmental disabilities) must be used throughout the manuscript (including figures and tables). Submissions must also use the non-possessive form in eponyms (e.g., Down Syndrome not Down's Syndrome).

Editorial Process

Each submission will undergo a peer review by two or more reviewers with relevant expertise. The authors of the manuscripts will not be identified to the reviewers. The reviewers will recommend for or against publication and provide their reasons. Reviewers are asked to judge the manuscript on several criteria including its contribution to increasing our knowledge and clarity of communication. The reviewers are asked to write in a positive and constructive manner to help the authors improve their work, if necessary. Reviewers are asked to complete the reviews within two weeks using electronic communication.

Final Decision

The Editor-in-Chief, or guest editor, reserves the final decision regarding publication of a submission. To promote the publication of theme issues, the Editor reserves the right to decide in which issue to publish the article if it has been accepted.

Copyright

Manuscripts should not be submitted if previously published elsewhere or under review unless explicitly requested by the Editor. Once published, the article becomes the property of OADD. If an author wishes to re-publish materials originally published in the Journal on Developmental Disabilities, written permission is required from OADD. To re-publish previously published material in this journal, written permission must be obtained from the person or organization holding the copyright to the original material.

The opinions expressed in this publication are those of the individual authors and do not necessarily reflect the views of the Ontario Association on Developmental Disabilities / L'association ontarienne sur les handicaps du développement.