Encyclopedia of Autism Spectrum Disorders

Fred R. Volkmar Editor

Encyclopedia of Autism Spectrum Disorders

With 59 Figures and 144 Tables



Editor Fred R. Volkmar Yale University New Haven, CT, USA

ISBN 978-3-319-91279-0 ISBN 978-3-319-91280-6 (eBook) ISBN 978-3-319-91284-4 (print and electronic bundle) https://doi.org/10.1007/978-3-319-91280-6

1st edition: © Springer Science+Business Media New York 2013

2nd edition: © Springer Nature Switzerland AG 2021

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG. The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface to Second Edition

Eight years have now passed since the first edition of this Encyclopedia. During that time the field has continued to grow – almost exponentially in some areas! In doing this second edition of the Encyclopedia, we are mindful of the growth as well as some of the advantages for updating entries and including new ones in this much used reference work. It has been gratifying to see this resource being heavily used with around 400,000 downloads since it first appeared!

In this second edition we have added nearly 400 new entries and updates on over 450 previous entries reflecting activity in the field since the first edition.

As with the first edition we have attempted to be comprehensive in scope with entries on a range of topics including not only research issues but biographies of important contributors to the field, legal and social policy issues, educational, behavioral, and medical interventions, treatments, and advances in basic sciences of behavior, communication, neurobiology, genetics, epidemiology, and so forth. For this edition, we have also included a new set of entries on countries giving brief overviews of the history of autism work and the current state of the field in both developed and developing countries. This latter group of entries also reflects the growing interest in autism around the world specifically in developing countries where infrastructure for both service, teaching, and research has become increasingly important. With the addition of our new entries, we have reached nearly 1800 entries in total.

As with the first edition we hope that this work provides an invaluable resource for parents, students, educators, researchers, and professionals alike. Even though these volumes appear in hard copy, in this new second edition we continually update entries and add new ones as these are needed. For this addition, I particularly thank our supporters at Springer – Judy Jones, Tina Shelton, and Sindhu Ramachandran, at Yale my helpful assistants Lori Klein and Monica Mleczek, and at the Autism Center at Southern Connecticut State University my assistant Eileen Farmer. I also particularly thank my Associate Editor Dr. Michael Powers who has assumed an important leadership role in the production of this edition. All of us hope you find this unique resource a valuable and helpful one. We are delighted to welcome you to this second edition.

New Haven, CT, USA September 1, 2020 Fred R. Volkmar

Preface to First Edition

Why an encyclopedia of autism? There are several answers to this question. They include the need to provide a comprehensive and current guide to the diverse knowledge now available. There has been a significant upsurge in research in autism during the past two decades. Several hundred papers were published in 1991 compared to more than 2,000 articles during 2011. The quantity of research (not even counting non-peer-reviewed publications) has increased so dramatically that it is difficult, if not impossible, for researchers and clinicians to keep up. Access to a reference work that provides an introduction to relevant information is clearly needed.

Although several excellent handbooks and textbooks have been published in recent years, these are, almost intrinsically, fated to become increasingly out of date more and more quickly. Fortunately, many of the same technological advances that have been adapted for use with individuals with autism have uses for those of us who support them. The ability to produce both a print reference work as well as an online version with additional content was a major attraction for us in undertaking this project. It also can be updated easily and will have additional content. The electronic format also provides for an extensive cross-referencing system, which is designed to facilitate rapid searching and information retrieval.

With contributions on a range of topics from leaders in the field, this reference work breaks new ground as a resource. The Encyclopedia contains several thousand entries relevant to autism and related conditions, including new research findings; entries on development and behavior; assessment methods and instruments; treatments and educational interventions; biographies of leaders in the field; and information relevant to epidemiology, social policy, and treatment planning.

Both I and the associate editors of this work hope that you will benefit from using the encyclopedia and welcome your feedback. By the time the print publication of this work appears, the online edition will already have had entries added reflecting new knowledge in various areas. We hope that this resource enhances the work of clinicians and researchers alike.

New Haven, CT, USA September 2012

Fred R. Volkmar M.D. Editor

About the Editor



Fred R. Volkmar is the Irving B. Harris Professor of Child Psychiatry, Pediatrics, and Psychology at the Yale Child Study Center, Yale University School of Medicine, and the Dorothy Goodwin Family Chair of Special Education at Southern Connecticut State University. An international authority on Asperger's disorder and autism, Dr. Volkmar was the primary author of the DSM-IV autism and pervasive developmental disorders section. He has authored several hundred scientific papers and has coedited numerous books, including Asperger Syndrome, Healthcare for Children on the Autism Spectrum: A Guide to Medical, Nutritional, and Behavioral Issues, and the recently released third edition of the Handbook of Autism and Pervasive Developmental Disorders. He serves as associate editor of the Journal of Autism, the Journal of Child Psychology and Psychiatry, and the American Journal of Psychiatry. He also serves as co-chairperson of the autism/MR committee of the American Academy of Child and Adolescent Psychiatry. Since 2007 he has served editor of the Journal of Autism and more recently of the Encyclopedia of Autism.

List of Field Editors

George M. Anderson Laboratory of Developmental Neurochemistry, Yale Child Study Center, New Haven, CT, USA

Nirit Bauminger-Zviely School of Education, Bar-Illan University, Ramat-Gan, Israel

Susan Y. Bookheimer Cognitive Neuroscience, UCLA School of Medicine, Los Angeles, CA, USA

Alice S. Carter Department of Psychology, University of Massachusetts Boston, Boston, MA, USA

Tony Charman Institute of Psychiatry, Psychology and Neuroscience (IoPPN), King's College London, London, UK

Katarzyna Chawarska Yale Child Study Center, New Haven, CT, USA

Joshua J. Diehl Child and Adolescent Services, LOGAN Community Resources, Inc., South Bend, IN, USA

Peter Doehring ASD Roadmap, Chadds Ford, PA, USA

Andrew L. Egel Dept. of Counseling, Higher Education and Special Education, University of Maryland, College Park, MD, USA

Inge-Marie Eigsti Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Ruth Eren Center of Excellence on Autism Spectrum Disorders, Southern Connecticut State University, New Haven, CT, USA

Adam Feinstein Autism Cymru and Looking Up, London, UK

Eric Fombonne Department of Psychiatry, Oregon Health and Science University, Portland, OR, USA

Michael Fitzgerald Department of Psychiatry, Trinity College, Dublin, Ireland

Grace Gengoux Child and Adolescent Psychiatry, Stanford University, Stanford, CA, USA

Howard Goldstein College of Behavioral and Community Sciences, University of South Florida, Tampa, FL, USA

xii List of Field Editors

Francesca Happé SGDP Centre, Institute of Psychiatry, Psychology and Neuroscience, London, UK

Pamela Heaton Department of Psychology, University of London, London, UK

Patricia Howlin Institute of Psychiatry, Psychology and Neuroscience King's College, London, UK

Susan Hyman Developmental and Behavioral Pediatrics, University of Rochester Golisano Children's Hospital, Rochester, NY, USA

Gagan Joshi Psychiatry, Massachusetts General Hospital, Boston, MA, USA

Connie Kasari Human Development and Psychology GSE&IS, Center for Autism Research and Treatment Semel Institute, UCLA, Los Angeles, CA, USA

Lauren Kenworthy Department of Pediatrics, Neurology, Psychiatry, George Washington University Medical School, Center for Autism Spectrum Disorders, Division of Pediatric Neuropsychology, Children's National Health System, Rockville, MD, USA

Robert L. Koegel Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, USA

Ronald Leaf Autism Partnership Foundation, Seal Beach, CA, USA

Ann S. Le-Couteur Population Health Sciences Institute, Newcastle University, Royal Victoria Infirmary, Newcastle upon Tyne, UK

Luc Lecavalier Nisonger Center, Ohio State University, Columbus, OH, USA

Rachel Loftin AARTS Center, Rush University Medical Center, Chicago, IL, USA

James W. Loomis Center for Children with Special Needs, Glastonbury, CT, USA

Catherine Lord UCLA, Los Angeles, CA, USA

Christopher J. McDougle Lurie Center for Autism, Massachusetts General Hospital, Lexington, MA, USA

James C. McPartland Yale Child Study Center, New Haven, CT, USA

Nancy J. Minshew Departments of Psychiatry and Neurology, University of Pittsburgh, Pittsburgh, PA, USA

Thomas Morgan Vanderbilt Department of Pediatrics, Division of Medical Genetics and Genomic Medicine, Nashville, TN, USA

Hope Morris Communication Sciences and Disorders, University of Vermont, Burlington, VT, USA

Paul A. Offit Division of Infectious Diseases, Department of Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, USA

Kristen M. Powers Cognitive Behavioral and Occupational Therapy Services, CCSN, Glastonbury, CT, USA

List of Field Editors xiii

Kevin A. Pelphrey Yale Child Study Center, New Haven, CT, USA

Patricia Prelock University of Vermont, Burlington, VT, USA

Brian Reichow University of Florida, Gainesville, FL, USA

Lawrence Scahill Children's Healthcare of Atlanta, Marcus Autism Center, Atlanta, GA, USA

Tristram Smith Department of Pediatics, University of Rochester Medical Center, Rochester, NY, USA

Wendy L. Stone Department of Psychology, UW READi Lab, University of Washington, Seattle, WA, USA

John W. Thomas Quinnipiac University School of Law, Hamden, CT, USA

Geralyn Timler Speech Pathology and Audiology, Miami University, Oxford, OH, USA

Rutger Jan van der Gaag Department of Psychiatry and Karakter University Center for Child and Adolescent Psychiatry, Radboud University Medical Centre, Utrecht, The Netherlands

Ernst O. VanBergeijk Threshold Program, Lesley University, Cambridge, MA, USA

Gerrit van Schalkwyk Butler Hospital, Brown University, Providence, RI, USA

Ty W. Vernon Koegel Autism Center/Department of Counseling, Clinical, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, USA

Giacomo Vivanti Early Detection and Intervention Program, AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

Deborah Weiss Department of Communication Disorders, SCSU Faculty Senate, Judaic Studies, Southern Connecticut State University, New Haven, CT, USA

Jeffrey J. Wood Department of Psychiatry, UCLA/Geffen School of Medicine, Los Angeles, CA, USA

Marc Woodbury-Smith Translational and Clinical Sciences Institute, Newcastle University, Newcastle upon Tyne, UK

Sara J. Webb Seattle Children's Research Institute, University of Washington, Seattle, WA, USA

Mary Jane Weiss Institute for Applied Behavioral Sciences, Endicott College, Beverly, MA, USA

Virginia C.N. Wong Division of Paediatric Neurology, Developmental Behavioural Paediatrics and Paediatric Neurohabilitation, The University of Hong Kong, Queen Mary Hospital, Hong Kong, China

Tristram Smith: deceased.

_

Associate Editor

Michael Powers The Center for Children with Special Needs (CCSN), Glastonbury, CA, USA

Yale Child Study Center, Yale University School of Medicine, New Haven, CA, USA

Contributors

Benjamin Aaronson Psychiatry and Behavioral Sciences, UW Autism Center, University of Washington, Seattle, WA, USA

Ahmed A. Abdel-Rahman Department of Neuropsychiatry, Faculty of Medicine, Assiut University, Assiut, Egypt

Sebiha M. Abdullahi Child Study Center, Yale University, New Haven, CT, USA

Amy Accardo Department of Interdisciplinary and Inclusive Education, College of Education, Rowan University, Glassboro, NJ, USA

Pasquale Accardo Virginia Commonwealth University, Richmond, VA, USA

Silvia Adaes Quinnipiac University School of Law, Hamden, CT, USA

Catherine Adams Human Communication Development and Hearing/ School of Health Sciences, University of Manchester, Manchester, UK

Gail Fox Adams Department of Applied Linguistics, University of California, Los Angeles, CA, USA

Lynn Adams New Orleans, LA, USA

Ryan Adams Division of Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Ayodola A. Adigun Yale Child Study Center, New Haven, CT, USA Albert J. Solnit Children's Center, Middletown, CT, USA

Ralph Adolphs Division of the Humanities and Social Sciences, California Institute of Technology, Pasadena, CA, USA

Bill Ahearn The New England Center for Children, Southborough, MA, USA

Rashid Akbari Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Abdulrahman A. Al-Atram Department of Psychiatry, College of Medicine, Majmaah University, Majmaah, Kingdom of Saudi Arabia

xviii Contributors

Mohamd A. Alblihed Department of Medical Biochemistry, School of Medicine, Taif University, Taif, Kingdom of Saudi Arabia

Lilia Albores Gallo Research in Genetic, Clinical and Community Epidemiology, Hospital Psiquiátrico Infantil Dr. Juan N. Navarro, México City, Mexico

Kimberly Aldinger Department of Cell and Neurobiology, Keck School of Medicine, University of Southern California, Los Angeles, CA, USA

Center for Integrative Brain Research, Seattle Children's Research Institute, Seattle, WA, USA

Mashal Salman Aljehany University of Jeddah, Jeddah, Makkah, Kingdom of Saudi Arabia

Mariam Aljunied Special Educational Needs Division, Ministry of Education, Singapore, Singapore

Melissa L. Allen Department of Psychology, Lancaster University Fylde College, Lancaster, UK

Shirley Alleyne School of Clinical Medicine and Research, The University of the West Indies, Cave Hill, St. Michael, Barbados

Samira Al-Saad Kuwait Center for Autism, Kuwait, Kuwait

Fouad A. W. Alshaban Neurological Disorders Research Center, Qatar Biomedical Research Institute, Hamad Bin Khalifa University, Doha, Qatar

Christine Alter Vocational Independence Program, New York Institute of Technology, Old Westbury, NY, USA

D. O. Alvi Azad Yale Child Study Center, The Edward Zigler Center in Child Development and Social Policy, Yale University, New Haven, CT, USA

Michael G. Aman Nisonger Center, UCEDD, The Ohio State University, Columbus, OH, USA

Evdokia Anagnostou Department of Peadiatrics, University of Toronto, Clinician Scientist, Bloorview Research Institute, Toronto, ON, Canada

Allan M. Andersen Department of Psychiatry, University of Iowa, Iowa City, IA, USA

Connie Anderson Post-Baccalaureate Certificate Program in Autism Studies, College of Health Professions, Towson University, Towson, MD, USA

Cynthia M. Anderson May Institute, Randolph, MA, USA

George M. Anderson Laboratory of Developmental Neurochemistry, Yale Child Study Center, Yale University, New Haven, CT, USA

Ligia Antezana Department of Psychology, Virginia Tech, Blacksburg, VA, USA

Contributors

Karthikeyan Ardhanareeswaran Autism Program, Child Study Center, Yale School of Medicine, New Haven, CT, USA

Program in Neurodevelopment and Regeneration, Yale School of Medicine, New Haven, CT, USA

Department of Molecular, Cellular, and Developmental Biology, Yale University, New Haven, CT, USA

Jennifer Arnold Department of Psychology, University of North Carolina, Chapel Hill, NC, USA

Larry Arnold Autism Centre for Education and Research, University of Birmingham, Edgebaston, Birmingham, UK

Sudha Arunachalam New York University, New York, NY, USA

Miya Asato Pediatrics and Psychiatry, Division of Child Neurology, School of Medicine, Children's Hospital of Pittsburgh, University of Pittsburgh, Pittsburgh, PA, USA

Kristen Ashbaugh Koegel Autism Center, University of California, Santa Barbara, CA, USA

Chris Ashwin Centre for Applied Autism Research, Department of Psychology, University of Bath, Bath, UK

Danielle Asklar Southern Connecticut State University, New Haven, CT, USA

Takeshi Atsumi Department of Medical Physiology, Faculty of Medicine, Kyorin University, Mitaka/Tokyo, Japan

Karla K. Ausderau Department of Kinesiology, Occupational Therapy Program, Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Sarita Austin Unlocking Language, London, UK

Bonnie Auyeung Autism Research Centre, University of Cambridge, Cambridge, UK

Mitrah E. Avini Yale Child Study Center, New Haven, CT, USA

Alvi Azad Yale Child Study Center, The Edward Zigler Center in Child Development and Social Policy, Yale University, New Haven, CT, USA

Gazi F. Azad Center for Autism and Related Disorders, Kennedy Krieger Institute's, Baltimore, MD, USA

Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

xx Contributors

Muhammad Waqar Azeem Sidra Medical and Research Center, Cornell Weill Medical College, Doha, Qatar

Department of Psychiatry, Sidra Medicine, Doha, Qatar

Weill Cornell Medicine, Doha, Qatar

Marina Azimova ABA Services of CT, West Hartford, CT, USA

Nur'aini Azizah Faculty of Psychology, Universitas Islam Negeri Sunan Gunung Djati, Bandung, Indonesia

Inmaculada Baixauli Catholic University of Valencia, Valencia, Spain

Savana M. Y. Bak University of Minnesota, Twin Cities, Educational Psychology, Minneapolis, MN, USA

Muideen O. Bakare Child and Adolescent Unit, Federal Neuropsychiatric Hospital, Enugu, Enugu, Nigeria

Childhood Neuropsychiatric Disorders Initiatives (CNDI), Enugu, Nigeria

Bruce L. Baker Department of Psychology, University of California Los Angeles, Los Angeles, CA, USA

Jason K. Baker Department of Child and Adolescent Studies, California State University, Fullerton, Fullerton, CA, USA

Vanessa Hus Bal University of Michigan, Ann Arbor, MI, USA

Michelle Sondra Ballan Columbia University School of Social Work, New York, NY, USA

Abigail Bangerter Department of Neuroscience, Janssen Research and Development, LLC, Titusville, NJ, USA

Claudio Banzato Psychiatry, University of Campinas – Unicamp, Campinas, São Paulo, Brazil

Grace T. Baranek Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California (USC), Los Angeles, CA, USA

Aurélie Baranger Autism-Europe, Bruxelles, Belgium

Gregory Barnes Department of Neurology, School of Medicine, Vanderbilt University, Nashville, TN, USA

Mihaela Barokova Center for Autism Research Excellence, Boston University, Boston, MA, USA

Simon Baron-Cohen Autism Research Centre, University of Cambridge, Cambridge, UK

Monica Barreto Yale Child Study Center, New Haven, CT, USA

Amy C. Barrett Koegel Autism Center/Department of Counseling, Clinical, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, USA

Contributors xxi

Anjali Barretto Department of Special Education, Gonzaga University, Spokane, WA, USA

Kevin Barry Quinnipiac University School of Law, Hamden, CT, USA

Lawrence Bartak Faculty of Education, Monash University, Clayton, VIC, Australia

Christine Barthold Center for Disabilities Studies, University of Delaware, Newark, DE, USA

Erin E. Barton University of Colorado Denver, Denver, CO, USA

Marianne Barton Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Ran Barzilay Department of Psychiatry, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel

Association for Children at Risk (R.A.), Tel Aviv, Israel

Magali Batty Université de Toulouse, CERPPS, Toulouse, France

Nirit Bauminger-Zviely School of Education, Bar-Illan University, Ramat-Gan, Israel

Kimberly M. Bean Department of Special Education, Center of Excellence on Autism Spectrum Disorders, Southern Connecticut State University, New Haven, CT, USA

Yvette F. Bean Department of Educational Psychology, University of Georgia, Athens, GA, USA

Allison Bean Ellawadi Speech and Hearing Science, The Ohio State University, Columbus, OH, USA

Luke Beardon The Autism Centre, Institute of Education, Sheffield Hallam University, Sheffield, South Yorkshire, UK

Emily Beaudoin McGill University, Montreal, QC, Canada

Kelly B. Beck Department of Rehabilitation Science and Technology, University of Pittsburgh, Pittsburgh, PA, USA

Daniel F. Becker Department of Psychiatry, University of California, San Francisco, USA

Cynthia Beesley Benhaven, Inc., North Haven, CT, USA

Marlene Behrman Department of Psychology, Carnegie Mellon University Center for the Neual Basis of Cognition, Pittsburgh, PA, USA

Jennifer S. Beighley Department of Psychology, Louisiana State University, Baton Rouge, LA, USA

Sara Beltran Southern Connecticut State University, New Haven, CT, USA

Julie Bender Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

xxii Contributors

Stephanie Bendiske The Center For Children With Special Needs, Glastonbury, CT, USA

Esther Ben-Itzchak Bruckner Center for Research in Autism, Department of Communication Disorders, Ariel University, Ariel, Israel

Kyle D. Bennett Department of Teaching and Learning, Florida International University, Miami, FL, USA

Matthew Bennett The University of Wollongong, Wollongong, NSW, Australia

Randi Bennett Child Neuroscience Laboratory, Yale Child Study Center, New Haven, CT, USA

Terry Bennett Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada

Loisa Bennetto Department of Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, USA

Eric Benninghoff Yale University, New Haven, CT, USA

Betsey A. Benson Nisonger Center, UCEDD, The Ohio State University, Columbus, OH, USA

Carmen Berenguer University of Valencia, Valencia, Spain

Michael Berger Department of Psychology, Royal Holloway University of London, Egham, Surrey, UK

Ella Maja Viktoria Bergman Department of Education, UiT – The Arctic University of Norway, Tromsø, Norway

Thomas Bergmann Berlin Treatment Center for Mental Health in Developmental Disabilities, Ev. Krankenhaus Königin Elisabeth Herzberge, Berlin, Germany

Thomas P. Berney Institute of Health and Society, Sir James Spence Institute, Newcastle University, Royal Victoria Infirmary, Newcastle upon Tyne, UK

Raphael Bernier Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Armando Bertone McGill University, Montreal, QC, Canada

Frank Besag Child and Adolescent Mental Health Services, SEPT. (South Essex Partnership University NHS Foundation Trust), Bedford, UK

Chad Beyer Faculty of Medicine and Health Sciences, Stellenbosch University, Parow, South Africa

Linas A. Bieliauskas Department of Psychiatry (F6248, MCHC-6), University of Michigan Health System, Ann Arbor, MI, USA

Elizabeth E. Biggs Department of Special Education, University of Illinois, Urbana-Champaign, Champaign, IL, USA

Contributors xxiii

Dorothy Bishop Department of Experimental Psychology, University of Oxford, Oxford, UK

Somer Bishop Department of Psychiatry, University of California, San Francisco, CA, USA

Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Vicki Bitsika Faculty of Humanities and Social Sciences, Bond University, Robina, QLD, Australia

Jan Blacher Graduate School of Education, University of California, Riverside, Riverside, CA, USA

Caitlyn Black Southern Connecticut State University, New Haven, CT, USA

Melissa H. Black School of Occupational Therapy, Social Work and Speech Pathology, Faculty of Health Sciences, Curtin Autism Research Group, Curtin University, Perth, WA, Australia

Amanda Blackwell School of Behavioral and Brain Sciences, Callier Center for Communication Disorders, University of Texas-Dallas, Dallas, TX, USA

Bryan J. Blair Institute for Behavioral Studies, The Van Loan School, Endicott College, Beverly, MA, USA

Long Island University, Brooklyn, NY, USA

Michael Bloch Yale OCD Research Clinic, New Haven, CT, USA

Sarah Boland Yale Child Study Center, New Haven, CT, USA

Danielle Bolling Yale Child Study Center, New Haven, CT, USA

Sven Bölte Center of Neurodevelopmental Disorders (KIND), Department of Women's and Children's Health and Child and Adolescent Psychiatry, Center for Psychiatry Research, Karolinska Institutet and Stockholm County Council, Stockholm, Sweden

Laura Bonazinga Bouyea Vermont Speech Language Pathology, University of Vermont, South Burlington, VT, USA

Alex Bonnin Keck School of Medicine, University of Southern California, Los Angeles, CA, USA

Susan Y. Bookheimer Department of Psychiatry and Biobehavioral Sciences, UCLA School of Medicine, Los Angeles, CA, USA

Susan Boorin School of Nursing, Yale University, West Haven, CT, USA

Hilary Boorstein Children's Mercy Hospital, Kansas, MO, USA

Kerri Booth Center for Children with Special Needs, Glastonbury, CT, USA

Tereza-Maria Booules-Katri Department of Clinical and Health Psychology, Psychopathology and Neuropsychology Research Unit, Universitat Autonoma de Barcelona, Barcelona, Spain

Jill Boucher Developmental Psychology, Autism Research Group, City University, London, UK

xxiv Contributors

Gordon Bourland Trinity Behavioral Associates, Arlington, TX, USA

Linda Bowers LinguiSystems, Inc, East Moline, IL, USA

Dermot Bowler Autism Research Group, City University London, London, UK

Lisa Bowman-Perrott Texas A&M University, College Station, TX, USA

Jessica Bradshaw Clinical Psychology, UCSB Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA, USA

John Bradshaw Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, VIC, Australia

Meghan Brahm Department of Special Education, Southern Connecticut State University, New Haven, CT, USA

Marcel Brass Ghent University, Ghent, Belgium

Helena Brentani Department of Psychiatry, Faculty of Medicine, University of Sao Paulo, Sao Paulo, Brazil

Neil Brewer Flinders University, Adelaide, SA, Australia

Jennifer Brielmaier Laboratory of Behavioral Neuroscience, National Institute of Mental Health, NIH, Porter Neuroscience Research Center, Bethesda, MD, USA

Kate O'. Brien Mary Immaculate College, Limerick, Ireland

Darlene Brodeur Department of Psychology, Acadia University, Wolfville, NS, Canada

Erik Bromberg University of California, Santa Barbara, Santa Barbara, CA, USA

Kabie Brook Autism Rights Group Highland (ARGH), Inverness, Scotland, UK

Rechele Brooks Institute for Learning and Brain Sciences, University of Washington, Seattle, WA, USA

Whitney T. Brooks Nisonger Center, UCEDD, The Ohio State University, Columbus, OH, USA

Jeffrey P. Brosco Department of Pediatrics, Miller School of Medicine, University of Miami, Mailman Center for Child Development, Miami, FL, USA

Mark Brosnan Centre for Applied Autism Research, Department of Psychology, University of Bath, Bath, UK

Gregory Brower School of Medicine, Texas Tech University Health Sciences Center, Lubbock, TX, USA

Ted Brown Department of Occupational Therapy, School of Primary and Allied Health Care, Faculty of Medicine, Nursing and Health Sciences, Monash University – Peninsula Campus, Frankston, VIC, Australia

Contributors xxv

Lauren Turner Brown Department of Psychiatry, Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Ted Brown School of Primary and Allied Health Care, Faculty of Medicine, Nursing and Health Sciences, Monash University – Peninsula Campus, Frankston, VIC, Australia

Pamela Brucker Special Education and Reading, Southern Connecticut State University, New Haven, CT, USA

Crystal I. Bryce School of Social and Family Dynamics, Arizona State University, Tempe, AZ, USA

Paulina L. Buffle Faculty de Psychology and Educational Sciences, University of Geneva, Geneva, Switzerland

Jacob A. Burack Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada

Shakeia Burgin Division of Speech and Hearing Sciences, Department of Allied Health Sciences, University of North Carolina-Chapel Hill, School of Medicine, Chapel Hill, NC, USA

Mack D. Burke Texas A&M University, College Station, TX, USA

Meghan M. Burke Department of Special Education, University of Illinois at Urbana-Champaign, Champaign, IL, USA

Karen Burner Department of Psychology, University of Washington, Seattle, WA, USA

Courtney Burnette University of Nebraska, Medical Center Munroe-Meyer Institute, Omaha, NE, USA

Anthony Burns Department of Psychiatry, AARTS Center, Rush University Medical Center, Chicago, IL, USA

Casey Burrows Department of Pediatrics, University of Minnesota, Minneapolis, MN, USA

Sarah Butler Center for Autism and the Developing Brain, New York-Presbyterian Hospital/Westchester Division, White Plains, NY, USA

Eilidh Cage Department of Psychology, University of Stirling, Stirling, Scotland, UK

Ru Ying Cai Autism Spectrum Australia (Aspect), Aspect Research Centre for Autism Practice, Flemington, VIC, Australia

Department of Educational Studies, Macquarie University, Sydney, NSW, Australia

Marina Calac Center for Early Intervention Volnickel, Chisinau, Republic of Moldova

Susan Calhoun Psychiatry, Penn State Health and College of Medicine, Hershey, PA, USA

xxvi Contributors

Claudia Califano Yale-New Haven Hospital, New Haven, CT, USA

Kevin Callahan University of North Texas, Kristin Farmer Autism Center, Denton, TX, USA

Daniel Campbell Yale Child Study Center, Yale University, New Haven, CT, USA

Ricardo Canal-Bedia Clinical Psychology Department, Department of Personality, Assessment, and Psychological Treatment, Centro de Atención Integral al Autismo (INFOAUTISMO), University Institute of Community Integration (INICO), University of Salamanca, Salamanca, Spain

Allison R. Canfield Department of Pediatrics, University of Rochester School of Medicine and Dentistry, Rochester, NY, USA

Maria Canon Yale Child Study Center, New Haven, CT, USA

Lindsey Capece Quinnipiac University, Hamden, CT, USA

Matthew R. Capriotti Department of Psychology, University of Wisconsin-Milwaukee, Milwaukee, WI, USA

Laurie Cardona Yale Child Study Center, Yale University, New Haven, CT, USA

Michael Carley Green Bay, WI, USA

L. Lee Carlisle Division of Child and Adolescent Psychiatry, Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Joana C. Carmo Faculdade de Psicologia, Universidade de Lisboa, Lisbon, Portugal

Departamento de Psicologia e Ciências da Educação, Faculdade de Ciências Humanas e Sociais, Universidade do Algarve, Faro, Portugal

Christi Carnahan University of Cincinnati, Cincinnati, OH, USA

Staci Carr UniqueKids Inc, Moseley, VA, USA

Themba Carr University of Michigan Center for Human Growth and Development, Ann Arbor, MI, USA

Alice S. Carter Department of Psychology, University of Massachusetts Boston, Boston, MA, USA

Mark Carter School of Education, Macquarie University, Sydney, NSW, Australia

Manuel Casanova Department of Psychiatry, University of Louisville, Louisville, KY, USA

Carissa J. Cascio Department of Psychiatry and Behavioral Sciences, Vanderbilt University Medical Center, Nashville, TN, USA

Contributors xxvii

Jane Case-Smith Division of Occupational Therapy, School of Health and Rehabilitation Sciences, Columbus, OH, USA

Arlette Cassidy The Gengras Center, University of Saint Joseph, West Hartford, CT, USA

Lisa Castagnola Child Study Center, The Edward Zigler Center in Child Development and Social Policy, School of Medicine, Yale University, New Haven, CT, USA

A. Charles Catania Department of Psychology, UMBC (University of Maryland, Baltimore County), Baltimore, MD, USA

Paul K. Cavanagh Vocational Independence Program, New York Institute of Technology, Central Islip, NY, USA

Antonio Cerasa Institute for Biomedical Research and Innovation (IRIB), National Research Council of Italy (CNR), Mangone, Italy

S. Anna Institute and Research in Advanced Neurorehabilitation (RAN), Crotone, Italy

Paige Cervantes Department of Child and Adolescent Psychiatry, Child Study Center, NYU Langone Health, New York, NY, USA

Raymond Won Shing Chan ASD Services, New Life Psychiatric Rehabilitation Association, Kowloon, Hong Kong

Marie Moore Channell Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL, USA

S. Michael Chapman TEACCH Autism Program, University of North Carolina Chapel Hill, Chapel Hill, NC, USA

Marjorie H. Charlop Claremont McKenna College, Claremont, CA, USA

Tony Charman Centre for Research in Autism and Education, Department of Psychology and Human Development, Institute of Education, University of London, London, UK

Marek Chawarski Department of Psychiatry, Yale School of Medicine, New Haven, CT, USA

Liam R. Chawner University of Leeds, Leeds, UK

Kuan-Lin Chen Department of Occupational Therapy, College of Medicine, National Cheng Kung University, Tainan City, Taiwan

Institute of Allied Health Sciences, College of Medicine, National Cheng Kung University, Tainan City, Taiwan

Department of Physical Medicine and Rehabilitation, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan City, Taiwan

Karen Chenausky Boston University, Boston, MA, USA

Tessa Chesher Tulane University, New Orleans, LA, USA

xxviii Contributors

Coralie Chevallier SGDP Centre, Institute of Psychiatry, King's College, London, UK

Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, USA

Stephanie N Child May Institute, Randolph, MA, USA

Youngsun T. Cho Yale Child Study Center, New Haven, CT, USA

Sylvia Henn Tean Choo Department of Child Development, KK Women's and Children's Hospital, Singapore, Singapore

Nick Chown Palau-solità i Plegamans, Lliçà de Vall, Barcelona, Spain

Rob Christian Department of Psychiatry, The Carolina Institute for Developmental Disabilities, University of North Carolina School of Medicine, Chapel Hill, NC, USA

Domenic V. Cicchetti Departments of Psychiatry and Biometry, Yale Child Study Center, Yale University, New Haven, CT, USA

Marina Ciccarelli School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Joseph H. Cihon Autism Partnership Foundation, Seal Beach, CA, USA

Emily Coderre Department of Communication Sciences and Disorders, University of Vermont, Burlington, VT, USA

Keith A. Coffman Department of Pediatrics, School of Medicine, Pittsburgh, PA, USA

Jared Cohen Yale Child Study Center, Yale University, New Haven, CT, USA

Carla Colomer Universitat Jaume I, Castellon, Spain

Emma Condy Neurodevelopmental and Behavioral Phenotyping Service, Intramural Research Program, National Institute of Mental Health, National Institutes of Health, Bethesda, MD, USA

Caitlin M. Conner Department of Psychiatry, School of Medicine, University of Pittsburgh, Pittsburgh, PA, USA

John N. Constantino Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, USA

Barbara A. Cook Department of Communication Disorders, Center of Excellence on Autism Spectrum Disorders, Southern Connecticut State University, New Haven, CT, USA

Elaine Coonrod Department of Psychiatry, School of Medicine, TEACCH, The University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Kelly D. Coons-Harding Department of Psychology, Laurentian University, Sudbury, ON, Canada

Contributors xxix

Judith Cooper NIDCD (National Institute on Deafness and Other Communication Disorders), National Institute of Health EPS – Executive Plaza South, Rockville, MD, USA

Eugenia Corbett Franklin County Home Health, St. Albans, VT, USA

Cara Cordeaux Child Neuroscience Lab, Yale Child Study Center, New Haven, CT, USA

Joseph A. Cornett Psychology and Global Health, Yale College, Yale University, New Haven, CT, USA

Lauren Cornew Radiology Department, Children's Hospital of Philadelphia, Philadelphia, PA, USA

Christoph U. Correll Psychiatry Research, The Zucker Hillside Hospital, Glen Oaks, NY, USA

Christina Corsello Department of Psychiatry, Child and Adolescent Services Research Center, University of San Diego, San Diego, CA, USA

Elin Cortijo-Doval Bioethics Center, Yale University, New Haven, CT, USA

Kleio Cossburn Keele University, Keele, Newcastle-under-Lyme, UK

Andreia P. Costa Institute for Health and Behavior, University of Luxembourg, Esch-sur-Alzette, Luxembourg

Kirsty Coulter Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Emma Craig Queen's University Belfast, Belfast, UK

Kym Craig Heriot-Watt University, Edinburgh, Scotland, UK

Madison Crandall Vanderbilt University, Nashville, TN, USA

Laura Crane Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, UK

Department of Psychology, Goldsmiths, University of London, New Cross, London, UK

Hayley Crawford Coventry University, Coventry, UK

Jacqueline N. Crawley Laboratory of Behavioral Neuroscience, National Institute of Mental Health, NIH, Porter Neuroscience Research Center, Bethesda, MD, USA

Lisa Croen Autism Research Program, Kaiser Permanente Division of Research, Oakland, CA, USA

Michael J. Crowley Developmental Electrophysiology Laboratory, Yale Child Study Center, New Haven, CT, USA

Alyson Crozier School of Health Sciences, University of South Australia, Adelaide, SA, Australia

xxx Contributors

Kristen D'Eramo The Center for Children with Special Needs, Glastonbury, CT, USA

Sarah Dababnah University of Maryland School of Social Work, Baltimore, MD, USA

Yael Dai Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Tamara C. Daley Westat, Durham, NC, USA

Paulo Dalgalarrondo University of Campinas Cidade Universitária "Zeferino Vaz", Campinas, São Paulo, Brazil

Jeffrey Danforth Department of Psychology, Eastern Connecticut State University, Willimantic, CT, USA

John T. Danial Psychological Studies in Education, University of California, Los Angeles, Los Angeles, CA, USA

Clarissa Dantas Department of Psychiatry, Faculty of Medical Sciences, University of Campinas (Unicamp), Campinas, São Paulo, Brazil

Catherine Davies Indiana Resource Center for Autism Indiana University, Bloomington, IN, USA

Cheryl Davis 7 Dimensions Consulting, Worcester, MA, USA

Luann Ley Davis University of Memphis, Memphis, TN, USA

Naomi Davis Institute for Social Development, Cary, NC, USA

Leann Smith DaWalt Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Geraldine Dawson Department of Psychiatry, University of North Carolina, Chapel Hill, NC, USA

Michelle Dawson Hôpital Rivière des Prairies, Centre de recherche du CIUSS du Nord de l'île de Montréal et département de psychiatrie de l'Université de Montréal, Montréal, QC, Canada

Talena C. Day School of Medicine, Child Study Center, Yale University, New Haven, CT, USA

Annelies de Bildt Child and Adolescent Psychiatry, University Medical Center Groningen, Groningen, The Netherlands

Concetta de Giambattista Child Neuropsychiatry Unit, University of Bari "Aldo Moro", Bari, Italy

Maretha de Jonge Department of Psychiatry, University Medical Center, Utrecht, Netherlands

Contributors xxxi

Ad De Jongh Department of Social Dentistry and Behavioral Sciences, Academic Centre for Dentistry Amsterdam (ACTA), University of Amsterdam and VU University Amsterdam, Amsterdam, The Netherlands School of Health Sciences, Salford University, Manchester, UK

Institute of Health and Society, University of Worcester, Worcester, UK School of Psychology, Queen's University, Belfast, Ireland

Naama de la Fontaine Yale Child Study Center, New Haven, CT, USA

Ashley B. de Marchena Department of Behavioral and Social Sciences, University of the Sciences, Philadelphia, PA, USA

Oana De Vinck Department of Pediatrics, Yale University School of Medicine, New Haven, CT, USA

Petrus J. de Vries Division of Child & Adolescent Psychiatry, University of Cape Town, Rondebosch, South Africa

Rebecca DeAquair The Center for Children with Special Needs, Glastonbury, CT, USA

W. Thornton N. Deegan Yale Child Study Center, New Haven, CT, USA

Michelle DeFelice Southern Connecticut State University, New Haven, CT, USA

Emma Delemere School of Social Sciences, Education and Social Work, Queen's University Belfast, Belfast, UK

Kristin Dell'Armo The Ohio State University Nisonger Center – UCEDD, Columbus, OH, USA

Lara Delmolino Douglass Developmental Disabilities Center, Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

Elizabeth A. DeLucia Yale Child Study Center, New Haven, CT, USA Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

K. Mark Derby Department of Special Education, Gonzaga University, Spokane, WA, USA

Mieke Dereu Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium

Whitney J. Detar Gevirtz Graduate School of Education, The University of California Center for Special Education, Disabilities, and Development, Santa Barbara, CA, USA

Gabriel S. Dichter UNC Departments of Psychiatry, Psychology and Neuroscience, UNC-Chapel Hill, Carolina Institute for Developmental Disabilities, Chapel Hill, NC, USA

xxxii Contributors

Joshua J. Diehl Autism Services, LOGAN Community Resources, Inc., South Bend, IN, USA

Department of Psychology, University of Notre Dame, Notre Dame, IN, USA

Carolyn DiGuiseppi Department of Epidemiology, Colorado School of Public Health, University of Colorado Anschutz Medical Campus, Aurora, CO, USA

Anthony DiLollo Wichita State University, Department of Communication Sciences and Disorders, Wichita, Kansas, USA

Nicholas M. DiLullo Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Ilan Dinstein Psychology Department, Carnegie Mellon University, Pittsburgh, PA, USA

Amiris Dipuglia Pennsylvania Training and Technical Assistance Network, Harrisburg, PA, USA

Leyla Akoury Dirani Division of Child and Adolescent Psychiatry, Department of Psychiatry, American University of Beirut Medical Center, Beirut, Lebanon

Cheryl Dissanayake Olga Tennison Autism Research Centre, La Trobe University, Melbourne, VIC, Australia

Mark R. Dixon Behavior Analysis and Therapy Program, Southern Illinois University, Carbondale, IL, USA

Peter Doehring Foundations Behavioral Health, Doylestown, PA, USA ASD Roadmap, Chadds Ford, PA, USA

Sam Doernberg Cornell University, Ithaca, NY, USA

Rebecca Doggett Koegel Autism Center, Gevirtz Graduate School of Education University of California, Santa Barbara, Santa Barbara, CA, USA

Elizabeth Howell Dohrmann Treatment and Research Institute for Autism Spectrum Disorders (TRIAD), Nashville, TN, USA

Department of Psychiatry and Biobehavioral Sciences, Child and Adolescent Psychiatry Fellowship Program, Semel Institute for Neuroscience and Human Behavior, Resnick Neuropsychiatric Hospital, UCLA David Geffen School of Medicine, Los Angeles, CA, USA

J. Don Richardson Department of Psychiatry, University of Western Ontario, London, ON, Canada

John Donvan Washington, DC, USA

Michael F. Dorsey Institute for Behavioral Studies, The Van Loan School, Endicott College, Beverly, MA, USA

Amego Inc., The Best Clinical Network, Attleboro, MA, USA

Constance Doss Department of Psychology, University of Alabama-Birmingham, Birmingham, AL, USA

Contributors xxxiii

Katerina Dounavi School of Social Sciences, Education and Social Work, Queen's University Belfast, Belfast, UK

Peter W. Dowrick University of Auckland, Auckland, New Zealand

Carolyn A. Doyle Indiana University School of Medicine, Indianapolis, IN, USA

Jessica Dreaver School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Curtin Autism Research Group, Curtin University, Perth, WA, Australia

Katerina M. Dudley Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Ana D. Dueñas Education and Human Services, Lehigh University, Bethlehem, PA, USA

Jodi M. Duke Division of Special Education and disability Research, Fairfax, VA, USA

Eric Duku Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada

Amie Duncan Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine, Cincinnati, OH, USA

Ed Duncan Children's Centre, La Trobe University, Melbourne, VIC, Australia

Debra Dunn The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, USA

Patrick Dwyer Centre for Autism Research, Technology and Education, Department of Psychology, Victoria, Canada

Department of Psychology, University of California, Davis, Davis, CA, USA

Kathleen Dyer River Street Autism Program at Coltsville, Capitol Region Education Council/Elms College, Hartford, CT, USA

Endicott College, Bloomfield, CT, USA

Jaclyn M. Dynia Crane Center for Early Childhood Research and Policy, The Ohio State University, Columbus, OH, USA

Shaun M. Eack School of Social Work and Department of Psychiatry, University of Pittsburgh, Pittsburgh, PA, USA

Maureen Early Christian Sarkine Autism Treatment Center, Indianapolis, IN, USA

Lisa Edelson-Fries Department of Psychology, Boston University, Boston, MA, USA

Neurocognition, Department of Brain Health, Nestlé Institute for Health Sciences, Lausanne, Switzerland

xxxiv Contributors

Elizabeth R. Eernisse Department of Language and Literacy, Cardinal Stritch University, Milwaukee, WI, USA

Shaunessy Egan Center for Children with Special Needs, Glastonbury, CT, USA

Inge-Marie Eigsti Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Svein Eikeseth Department of Behavioral Science, Oslo and Akershus University College, Lillestrøm, Norway

Ingólfur Einarsson The State Diagnostic and Counseling Center, Kópavogur, Iceland

Martin Eisemann Department of Psychology, UiT – The Arctic University of Norway, Tromso, Norway

Naomi V. Ekas Department of Psychology, Texas Christian University, Fort Worth, TX, USA

Rob El Fattal Cultivate Behavioral Health and Education, Bee Cave, TX, USA

Ismail El Hailouch School of Public Health, Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Paul El-Fishawy State Laboratory, Child Study Center, Yale University, New Haven, CT, USA

Amira Elhoufey Department of Community Health Nursing, Faculty of Nursing, Assiut University, Assiut, Egypt

Department of Community Health Nursing, Sabia University College, Jazan University, Jazan, Kingdom of Saudi Arabia

Stephen N. Elliott Sanford School of Social and Family Dynamics, Learning Sciences Institute, Arizona State University, Tempe, AZ, USA

Kimberly Ellison Yale Child Study Center, New Haven, CT, USA

Eric Emerson Centre for Disability Research, Lancaster University, Lancaster, LA, UK

Centre for Disability Research and Policy, University of Sydney, Lidcombe, NSW, Australia

Paul Edward Engelhardt School of Psychology, University of East Anglia, Norwich, Norfolk, UK

Peter Enticott Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, VIC, Australia

Ruth Eren Center of Excellence on Autism Spectrum Disorders, Southern Connecticut State University, New Haven, CT, USA

Patricio Erhard University of Texas at Austin, Austin, TX, USA

Contributors xxxv

Craig A. Erickson Christian Sarkine Autism Treatment Center, Indianapolis, IN, USA

Department of Psychiatry, University of Cincinnati School of Medicine, Cincinnati, OH, USA

Department of Psychiatry, Indiana University School of Medicine, Indianapolis, IN, USA

Gianluca Esposito Nanyang Technological University, Wako, Saitama, Singapore

University of Trento, Rovereto, TN, Italy

Kuroda Research Unit, RIKEN Brain Science Institute, Wako-shi Saitama, Japan

Joshua Ewen Kennedy Krieger Institute, Baltimore, MD, USA

Mariah Eykelhoff Southern Connecticut State University, New Haven, CT, USA

Reina S. Factor Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Virginia Tech Autism Clinic and Center for Autism Research, Blacksburg, VA, USA

Michelle D. Failla Department of Psychiatry and Behavioral Science, Vanderbilt University Medical School, Nashville, TN, USA

Terry S. Falcomata University of Texas at Austin, Austin, TX, USA

Marita Falkmer School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Torbjörn Falkmer School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Pain and Rehabilitation Centre, and Department of Medical and Health Sciences, Linköping University, Linköping, Sweden

Megan Farley Psychiatry, University of Utah School of Medicine, University Neuropsychiatric Institute, Salt Lake City, UT, USA

Cristan Farmer The National Institute of Mental Health (NIMH), National Institutes of Health (NIH), Bethesda, MD, USA

Nisonger Center Psychology, Ohio State University, Columbus, OH, USA

Janet Farmer Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, USA

Miranda Farmer Yale Child Study Center, New Haven, CT, USA

Jesslyn N. Farros Endicott College, Beverly, MA, USA

Deborah Fein Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Adam Feinstein Autism Cymru and Looking Up, London, UK

xxxvi Contributors

Maurice Feldman Department of Child and Youth Studies and Department of Applied Disability Studies, Brock University, St. Catharines, ON, Canada

Eunice Feng Koegel Autism Center, Eli and Edythe L. Broad Center for Asperger Research, University of California, Santa Barbara, CA, USA

Rachel M. Fenning Department of Child and Adolescent Studies, California State University, Fullerton, Fullerton, CA, USA

Jenny Ferguson School of Social Sciences, Education and Social Work, Queen's University Belfast, Belfast, UK

Julia L. Ferguson Autism Partnership Foundation, Seal Beach, CA, USA

Thomas Fernandez Yale Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Summer Ferreri Department of Counseling, Educational Psychology and Special Education, College of Education Michigan State University, East Lansing, MI, USA

Sean Field The School at Springbrook, Oneonta, NY, USA

Carlos N. Filipe Faculdade de Ciências Médicas, NOVA Medical School, Universidade Nova de Lisboa, Lisbon, Portugal

Joseph J. Fins Division of Medical Ethics, Weill Cornell Medical College, New York, NY, USA

Michael B. First Department of Psychiatry, Columbia University, New York State Psychiatric Institute, New York, NY, USA

Nicole Fischer Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Patricio Fischman Yale University Child Study Center, New Haven, CT, USA

Private Practice, Santiago, Chile

Ronit Fischman Child and Adolescent Psychologist, Private Practice, Santiago, Chile

Veronica P. Fleury Florida State University, Tallahassee, FL, USA

Renee Folsom Semel Institute for Neuroscience and Human Behavior, University of California Los Angeles (UCLA) The Help Group/UCLA Neuropsychology Program, Los Angeles, CA, USA

Laura Fontil Department of Educational and Counselling Psychology, School/Applied Child Psychology, McGill University, Montreal, QC, Canada

Joy Fopiano Department of Elementary Education, Southern Connecticut State University, New Haven, CT, USA

Danielle Forbes Psychology, University of Massachusetts Boston, Boston, MA, USA

Contributors xxxvii

Solandy Forte The Center for Children with Special Needs, Glastonbury, CT, USA

Milestones Behavioral Services, Inc., Milford, CT, USA

Jennifer H. Foss-Feig Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, USA

Richard M. Foxx University of Pennsylvania, Harrisburg, PA, USA

Christina Fragale University of Texas at Austin, Austin, TX, USA

Kathleen B. Franke The Unumb Center for Neurodevelopment, Columbia, SC, USA

Thomas Frazier Autism Speaks, New York, NY, USA Cleveland Clinic Children's, Cleveland, OH, USA

Stephanny Freeman Center for Autism Research and Treatment (CART), University of California, Los Angeles, Los Angeles, CA, USA

Megan Freeth Department of Psychology, University of Sheffield, Sheffield, UK

Hannah Friedman Yale Child Study Center, New Haven, CT, USA

Uta Frith Division of Biosciences, Institute of Cognitive Neuroscience UCL, London, UK

Cori Fujii Division of Psychological Studies in Education, University of California, Los Angeles, Los Angeles, CA, USA

Daniel Shuen Sheng Fung Department of Developmental Psychiatry, Institute of Mental Health, Singapore, Singapore

Rosaria Furlano Department of Psychology, Queen's University, Kingston, ON, Canada

Maria Fusaro Department of Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, USA

Cheryl Smith Gabig Department of Speech, Language, and Hearing Sciences, Lehman College/The City University of New York, Bronx, NY, USA

Sebastian Gaigg Autism Research Group, City University London, London, UK

Eynat Gal Department of Occupational Therapy, University of Haifa, Haifa, Israel

Cédric Galera Department of Child and Adolescent Psychiatry, Université de Bordeaux, Bordeaux, France

Jennifer Gallup Idaho State University, Pocatello, ID, USA

Tanuja Gandhi Child Study Centre, Yale School of Medicine, New Haven, CT, USA

xxxviii Contributors

Cristina García-López Joint Research Institute National University for Distance Education and Health Institute Carlos III (IMIENS), Madrid, Spain Hospital Sant Joan de Déu, UTAE, Barcelona, Spain

Lauren Gardner Child Development and Rehabilitation Center, Johns Hopkins All Children's Hospital, Saint Petersburg, FL, USA

Dana Rose Garfin Sue & Bill Gross School of Nursing, University of California, Irvine, Irvine, CA, USA

Gabriela Garrido Department of Child and Adolescent Psychiatry, ASD Department, Pereira Rossell Hospital – ASSE, Universidad de la República, School of Medicine, Montevideo, Uruguay

Beth Garrison Hartford Hospital Pain Treatment Center, Bristol, CT, USA

Grant Gautreaux Nicholls State University, Thibodaux, LA, USA

David C. Gavisk College of Contemporary Liberal Studies, Department of Education, Regis University, Denver, CO, USA

Erin Gelinas Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Grace W. Gengoux Child and Adolescent Psychiatry, Stanford University School of Medicine, Lucile Packard Children's Hospital, Stanford, CA, USA

Danielle Geno The College of Arts and Sciences, The University of Vermont, Burlington, VT, USA

Stelios Georgiades Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada

Sima Gerber Department of Linguistics and Communication Disorders, Queens College, Flushing, NY, USA

Jennifer Varley Gerdts Department of Psychology, University of Washington, CHDD, Seattle, WA, USA

Meital Gewirtz Yale University, New Haven, CT, USA

Golnaz Ghaderi Department of Social Sciences, University of Ottawa, Ottawa, ON, Canada

Ahmad Ghanizadeh School of Medicine, Research Center for Psychiatry and Behavioral Sciences, Shiraz University of Medical Sciences, Shiraz, Iran

Parisa Ghanouni Occupational Science and Occupational Therapy Department, University of British Columbia, Vancouver, Canada

Occupational Science and Occupational Therapy Department, Dalhousie University, Halifax, NS, Canada

Mohammad Ghaziuddin University of Michigan, Ann Arbor, MI, USA

Jenna Gilder Claremont Graduate University, Claremont, CA, USA

Contributors xxxix

Christopher Gillberg Department of Child and Adolescent Psychiatry, Gillberg Neuropsychiatry Centre, University of Gothenburg, Gothenburg, Sweden

Madelyn A Gillentine Department of Genome Sciences, University of Washington, Seattle, WA, USA

Walter Gilliam Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Regina Gilroy Quinnipiac University School of Law, Hamden, CT, USA

Sonya Girdler School of Occupational Therapy, Social Work and Speech Pathology, Faculty of Health Sciences, Curtin University, Perth, WA, Australia Curtin Autism Research Group, Curtin University, Perth, WA, Australia

Ivy Giserman Kiss Department of Psychology, University of Massachusetts Boston, Boston, MA, USA

Jalisa Gittens McGill University, Montreal, QC, Canada

Theresa R. Gladstone Yale Child Study Center, New Haven, CT, USA

Jeffrey Glennon Department of Cognitive Neuroscience, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands

Tara J. Glennon Occupational Therapy, Quinnipiac University, Hamden, CT, USA

Centre of Pediatric Therapy, Fairfield and Wallingford, Wallingford, CT, USA

Dorie Glover Psychiatry and Biobehavioral Sciences, University of California at Los Angeles, Los Angeles, CA, USA

Lindsay B. Glugatch Department of Special Education and Clinical Sciences, University of Oregon, Eugene, OR, USA

Nitin Gogtay Division of Child and Adolescent Psychiatry, National Institutes of Mental Health, Bethesda, MD, USA

Tze Jui Goh Department of Developmental Psychiatry, Institute of Mental Health, Singapore, Singapore

Ofer Golan Department of Psychology, Bar-Ilan University, Ramat Gan, Israel

Association for Children at Risk (R.A.), Tel Aviv, Israel

Melissa C. Goldberg Kennedy Krieger Institute, Baltimore, MD, USA

Wendy A. Goldberg Department of Psychological Science, University of California, Irvine, Irvine, CA, USA

Yael Goldfarb Department of Occupational Therapy, University of Haifa, Haifa, Israel

Rachel L. Goldin Department of Psychology, Louisiana State University, Baton Rouge, LA, USA

xl Contributors

Tina R. Goldsmith Center for Development and Disability, University of New Mexico, Albuquerque, NM, USA

Howard Goldstein Human Development and Family Science, The Ohio State University, Columbus, OH, USA

Sam Goldstein Neurology Learning and Behavior Center, University of Utah, Salt Lake City, UT, USA

Peyman Golshani David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

José Luis Cuesta Gómez Faculty of Education, Universidad de Burgos, Burgos, Spain

Ana Maria Gonzalez-Barrero Department of Psychology, Concordia University, Montreal, QC, Canada

Emma Goodall The University of Wollongong, Wollongong, NSW, Australia

Cara Damiano Goodwin Virginia Institute of Autism, Charlottesville, VA, USA

Amanda E. Gordon Quinnipiac University School of Law, Hamden, CT, USA

Ilanit Gordon Child Study Center, Yale University, New Haven, CT, USA

Judith Gould NAS Lorna Wing Centre for Autism, Bromley, UK

Michele Goyette-Ewing Yale Child Study Center, New Haven, CT, USA

Richard B. Graff The New England Center for Children, Southborough, MA, USA

Catherine Grainger Psychology, University of Stirling, Stirling, Scotland, UK

Temple Grandin Department of Animal Sciences, Colorado State University, Fort Collins, CO, USA

Kylie M. Gray Centre for Developmental Psychiatry and Psychology, Department of Psychiatry, School of Clinical Sciences at Monash Health, Monash University, Clayton, VIC, Australia

Sarah A. O. Gray Department of Psychology, Tulane University, New Orleans, LA, USA

Department of Psychology, University of Massachusetts Boston, Boston, MA, USA

Ashley Dawn Greathouse Combined-Integrated Clinical and Counseling Psychology Doctoral Program, University of South Alabama, Mobile, AL, USA

Contributors xli

Kirstin Greaves-Lord Jonx Department of (Youth) Mental Health and Autism, Lentis Psychiatric Institute, Groningen, The Netherlands

Department of Child and Adolescent Psychiatry/Psychology, Erasmus MC, Rotterdam, The Netherlands

Yulius Autisme, Dordrecht, The Netherlands

Emma Green Department of Psychology, University of Waterloo, Waterloo, ON, Canada

Evelynne Green The University of Vermont, Burlington, VT, USA

Shulamite A. Green Department of Psychology, University of California, Los Angeles, CA, USA

Alissa Greenberg Juvo, Sacramento, CA, USA

Jan S. Greenberg Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Alyse Greer Quinnipiac University School of Law, Hamden, CT, USA

Frank M. Gresham Department of Psychology, Louisiana State University, Baton Rouge, LA, USA

Elena L. Grigorenko University of Houston, Houston, TX, USA Yale Child Study Center, Psychology, and Epidemiology and Public Health, Yale University, New Haven, CT, USA

Jemma Grindstaff Chapel Hill TEACCH Center, Carrboro, NC, USA

Roy Grinker Anthropology, The George Washington University, Washington, DC, USA

Roseann R. Groh Center for Children with Special Needs, Glastonbury, CT, USA

Mark Groskreutz Special Education and Reading Department, The Center of Excellence on Autism Spectrum Disorders, Southern Connecticut State University, New Haven, CT, USA

Matthew Grover Otterbein University, Westerville, OH, USA

Manon Grube Center for Music in the Brain, Faculty of Health, Aarhus University, Aarhus, Denmark

Rinatte Gruen Yale Child Study Center, New Haven, CT, USA

Ouriel Grynszpan Laboratoire d'Informatique pour la Mécanique et les Sciences de l'Ingénieur, LIMSI, CNRS, Université Paris-Sud, Orsay, France

Rebecca Grzadzinski Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, USA

xlii Contributors

Amanda C. Gulsrud UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, USA

Yuqing Guo Sue & Bill Gross School of Nursing, University of California, Irvine, Irvine, CA, USA

Abha R. Gupta Developmental-Behavioral Pediatrics, Child Study Center, Yale University, New Haven, CT, USA

Nouchine Hadjikhani Martinos Center for Biomedical Imaging, Harvard Medical School, Boston, MA, USA

Gillberg Neuropsychiatry Center, Sahlgrenska Academy, University of Gothenburg, Göteborg, Sweden

Eileen Haebig Department of Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN, USA

Deborah Hales Division of Education, American Psychiatric Association, Arlington, VA, USA

Jane Hamilton Quinnipiac University School of Law, Hamden, CT, USA

Daniela Han Private Practice, Santiago, Chile

Yu Han Neuroscience, University of Vermont, Burlington, VT, USA

Gregory P. Hanley Western New England University, Springfield, MA, USA

Robin Hansen Pediatrics, Center for Excellence in Developmental Disabilities, UC Davis M.I.N.D. Institute, Sacramento, CA, USA

Francesca Happé MRC Social, Genetic and Developmental Psychiatry Centre, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK

Antonio Y. Hardan Department of Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, USA

Sarah Hardy Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Annville Psychological Services, Annville, PA, USA

Toya Harmon Texas State University, San Marcos, TX, USA

Sandra Harris Douglass Developmental Disabilities Center, Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

Ashley J. Harrison Department of Educational Psychology, University of Georgia, Athens, GA, USA

Catharina Hartman Department of Psychiatry, University of Groningen, University Medical Center Groningen, Groningen, The Netherlands

Ahmad Hassan Department of Neuroscience, Yale University School of Medicine, New Haven, CT, USA

Contributors xliii

Wassim Hassan Department of Neuroscience, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, USA

Tyler A. Hassenfeldt Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Kathleen Hastings Southern Connecticut State University, New Haven, CT, USA

Megan Hatfield School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Susan M. Havercamp Nisonger Center, UCEDD, The Ohio State University, Columbus, OH, USA

Brett Heasman Centre for Research in Autism and Education (CRAE), UCL, London, UK

Pamela Heaton Department of Psychology, University of London, London, UK

Amy Heberle Clinical Psychology, University of Massachusetts, Boston, MA, USA

Darren Hedley School of Psychological Science, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, VIC, Australia

John P. Hegarty Department of Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, USA

Stephen Hegedus School of Education, Southern Connecticut State University, New Haven, CT, USA

S. M. J. Heijnen-Kohl Mondriaan Geriatric Mental Health Care, Heerlen-Maastricht, The Netherlands

Sascha Hein Freie Universität Berlin, Berlin, Germany

David T. Helm Division of Developmental Medicine, Boston Children's Hospital, Boston, MA, USA

Heather A. Henderson Department of Psychology, University of Waterloo, Waterloo, ON, Canada

Department of Psychology, University of Miami, Coral Gables, FL, USA

Dawn Hendricks Department of Special Education and Disability Policy, VCU Autism Center for Excellence, Virginia Commonwealth University, Richmond, VA, USA

Susan Hepburn Department of Psychiatry and Pediatrics, JFK Partners, University of Colorado at Denver, Aurora, CO, USA

Colorado State University, Department of Human Development and Family Services, Fort Collins, CO, USA

Katelyn Herchel Center for Children with Special Needs, Glastonbury, CT, USA

xliv Contributors

Irva Hertz-Picciotto Department of Public Health Sciences and the MIND Institute, University of California, Davis, Davis, CA, USA

Amaia Hervas Child and Adolescent Mental Health Unit, University Hospital Mutua of Terrassa, Barcelona, Spain

Sean Hess Rehabilitation Services, Wesley Woodlawn Hospital & ER, Wichita, KS, USA

Ashley Durkee Hester Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Steven D. Hicks Penn State College of Medicine, Hershey, PA, USA

Trenesha L. Hill Department of Psychology, Tulane University, New Orleans, LA, USA

Manon H. J. Hillegers Department of Child and Adolescent Psychiatry/ Psychology, Erasmus Medical Center-Sophia Children's Hospital, Rotterdam, The Netherlands

Ashleigh Hillier Department of Psychology, University of Massachusetts Lowell, Lowell, MA, USA

Jennifer Hillman Applied Psychology Program, The Pennsylvania State University, Berks College, Reading, PA, USA

Claudia Hilton Occupational Therapy Department, University of Texas Medical Branch, Galveston, TX, USA

Kimberly Ho Misiaszek Yale Child Study Center, New Haven, CT, USA

Michal Hochhauser Department of Occupational Therapy, Ariel University, Ariel, Israel

Ginny Hodge Chapel Haven, Inc, New Haven, CT, USA

Abby Hodges University of Denver, Denver, CO, USA

Sandra Hodgetts Pediatrics, University of Alberta, Edmonton, AB, Canada

Kristin Hodgson UNC TEACCH Autism Program-Charlotte, Charlotte, NC, USA

Ellen J. Hoffman Albert J. Solnit Integrated Training Program, Yale Child Study Center, Program on Neurogenetics, Yale School of Medicine, New Haven, CT, USA

Abigail L. Hogan Department of Psychology, University of South Carolina, Columbia, SC, USA

Kerry Hogan Wilmington Psych, Wilmington, NC, USA

Thomas P. Hogan Department of Psychology, University of Scranton, Scranton, PA, USA

Katherine C. Holman Department of Special Education, Towson University, Towson, MD, USA

Anne Holmes Eden Autism Services, Princeton, NJ, USA

David L. Holmes Lifespan Services, Princeton, NJ, USA

Jinkuk Hong Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Lisa Honigfeld Child Health and Development Institute of Connecticut, Farmington, CT, USA

Stephen R. Hooper Department of Allied Health Sciences, School of Medicine, University of North Carolina-Chapel Hill, Chapel Hill, NC, USA

Daniel W. Hoover Center for Child and Family Traumatic Stress, Kennedy Krieger Institute, Baltimore, MD, USA

M. S. Hope Morris Communication Sciences and Disorders, The University of Vermont, Burlington, VT, USA

Andrea Horvath Department of Paediatrics, The Medical University of Warsaw, Warsaw, Poland

Ernst Horwitz Department of Psychiatry, Groningen University Medical Center, Groningen, The Netherlands

Katherine Howells Deakin Child Study Centre, School of Psychology, Faculty of Health, Deakin University, Geelong, VIC, Australia

Patricia Howlin Institute of Psychiatry, Psychology and Neuroscience, King's College, London, UK

Youjia Hua Department of Curriculum, Instruction and Special Education, Curry School of Education and Human Development, University of Virginia, Charlottesville, VA, USA

Kristelle Hudry Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, VIC, Australia

Marisela Huerta Center for Autism and the Developing Brain, Weill Cornell Medicine, New York, NY, USA

Samantha Huestis Yale Child Study Center, New Haven, CT, USA

Rosemary Huisingh LinguiSystems, Inc, East Moline, IL, USA

Laura Hull Research Department of Clinical, Educational and Health Psychology, University College London, London, UK

Kara Hume University of North Carolina, Chapel Hill, NC, USA

Rachel Hundley Division of Developmental Medicine, Department of Pediatrics, Vanderbilt University Medical Center, Nashville, TN, USA

Hillary Hurst Department of Psychology, University of Massachusetts Boston, Boston, MA, USA

Vanessa Hus Department of Psychology, University of Michigan, Ann Arbor, MI, USA

xlvi Contributors

Tiffany Hutchins Department of Communication Sciences and Disorders, The University of Vermont, Burlington, VT, USA

Ted Hutman Department of Psychiatry and Biobehavioral Science, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA

Semel Institute of Neuroscience, Los Angeles, CA, USA

Soonjo Hwang Massachusetts General Hospital, Boston, MA, USA

Wei-Chin Hwang Department of Psychology, Claremont McKenna College, Claremont, CA, USA

Susan Hyman Developmental and Behavioral Pediatrics, Division Chief Neurodevelopmental and Behavioral Pediatrics, University of Rochester Golisano Children's Hospital, Rochester, NY, USA

Suzannah Iadarola Department of Pediatrics, University of Rochester Medical Center, Rochester, NY, USA

Dorothea A. Iannuzzi Division of Academic Pediatrics, Autism Intervention Research Network on Physical Health (AIR-P), Autism Treatment Network (ATN), Mass General Hospital for Children, Boston, MA, USA

Karim Ibrahim Child Study Center, Yale School of Medicine, Yale University, New Haven, CT, USA

Masakazu Ide Department of Disabilities of Brain Functions, Research Institute of National Rehabilitation Center for Persons with Disabilities, Tokorozawa/Saitama, Japan

Nazish Imran Child and Family Psychiatry Department, King Edward Medical University/Mayo Hospital, Lahore, Pakistan

Sheree Incorvaia Vocational Independence Program, New York Institute of Technology, Central Islip, NY, USA

Brooke Ingersoll Department of Psychology, Michigan State University, East Lansing, MI, USA

Barry Ingham Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle. UK

Irma Isasa Child and Adolescent Service, Polyclinic Gipuzkoa, San Sebastián, Spain

Andrew Iskandar Division TEACCH, CB 7180, UNC-CH, TEACCH Early Intervention Program, Chapel Hill, NC, USA

Scott Luther James Jackson Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Laudan B. Jahromi School of Social and Family Dynamics, Arizona State University, Tempe, AZ, USA

Mark Jaime Division of Science, Indiana University-Purdue University, Columbus, Columbus, IN, USA

Contributors xlvii

T. Rene Jamison Center for Child Health and Development, University of Kansas Medical Center, Kansas City, KS, USA

Sara Jelinek Department of Psychology, Michigan State University, East Lansing, MI, USA

Heather H. Jia Illinois State University, Normal, IL, USA

Ronnie Jia Illinois State University, Normal, IL, USA

Cynthia R. Johnson Pediatrics, Psychiatry, and Education, University of Pittsburgh, Pittsburgh, PA, USA

Ellen Johnson Section of Social Work, Mayo Clinic, Rochester, MN, USA

Kimberly Johnson Neurodevelopmental and Behavioral Pediatrics, Children's Hospital Colorado, Aurora, CO, USA

Kristin Johnson Yale University, New Haven, CT, USA

Catherine R. G. Jones Department of Psychology, University of Essex, Colchester, UK

Emily Jones Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Rebecca Jordan Child Study Center, Yale School of Medicine, Yale University, New Haven, CT, USA

Rita Jordan School of Education, University of Birmingham, Edgbaston, Birmingham, UK

Roger J. Jou Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Martha Bates Jura Department of Psychiatry, UCLA/Geffen School of Medicine, Los Angeles, CA, USA

Tobi Gilbert Juris Quinnipiac University School of Law, Hamden, CT, USA

Aaron Kaat Nisonger Center, Ohio State University, Columbus, OH, USA

Allison Kahl New York University School of Law, New York, NY, USA

Martha D. Kaiser Child Neuroscience Laboratory, Yale Child Study Center, New Haven, CT, USA

Luke Kalb Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Kennedy Krieger Institute's Center for Autism and Related Disorders, Baltimore, MD, USA

Rajesh Kana Department of Psychology, University of Alabama-Birmingham, Birmingham, AL, USA

Xin Kang Department of Applied Social Sciences, The Hong Kong Polytechnic University, Hung Hom, Hong Kong

xlviii Contributors

Steve Kanne Department of Health Psychology, School of Health Professions Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, USA

Sara Kaplan-Levy Clinical Psychology, University of Massachusetts Boston, Boston, MA, USA

Annette Karmiloff-Smith Birkbeck College, London, UK

Christie P. Karpiak Department of Psychology, University of Scranton, Scranton, PA, USA

Connie Kasari Graduate School of Education and Information Studies and the Semel Institute, University of California, Los Angeles, Los Angeles, CA, USA

Juli Katon Department of Special Education, University of Maryland, College Park, MD, USA

Alice Kau Intellectual and Developmental Disabilities (IDD) Branch, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, USA

Elizabeth Kauffman AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

Alan S. Kaufman Yale University School of Medicine, New Haven, CT, USA

Carson Kautz Yale Child Study Center, Yale University, New Haven, CT, USA

Brandon Keehn Department of Speech, Language, and Hearing Sciences, Department of Psychological Sciences, Purdue University, West Lafayette, IN, USA

Jacqueline Kelleher Education, Sacred Heart University Isabelle Farrington School of Education, Southern Connecticut State University, Fairfield, CT, USA

Annemarie M. Kelly College of Health and Human Services, Eastern Michigan University, Ypsilanti, MI, USA

Daniel P. Kennedy Division of the Humanities and Social Sciences, California Institute of Technology, Pasadena, CA, USA

Maureen C. Kenny Department of Counseling, Recreation and School Psychology, Florida International University, Miami, FL, USA

Danielle Geno Kent The College of Arts and Sciences, The University of Vermont, Burlington, VT, USA

Connor M. Kerns Department of Psychology, University of British Columbia, Vancouver, BC, Canada

Stephenie Koon Miang Khoo Autism Resource Centre, Singapore, Singapore

Meena Khowaja Nemours/A.I. duPont Hospital for Children, Wilmington, DE, USA

Emily Kilroy Mayes Lab, Yale Child Study Center, New Haven, CT, USA

Jinah Kim Department of Creative Arts Therapy, College of Cultural Convergence, Jeonju University, Jeonju, Jeollabukdo, Republic of Korea

Mina Kim College of Education Temple University, Philadelphia, PA, USA

So Hyun Sophy Kim Department of Psychiatry, Weill Cornell Medicine, White Plains, NY, USA

Department of Psychology, University of Michigan, Ann Arbor, MI, USA

Sunny Kim Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA, USA

Young-Shin Kim Yale Child Study Center, New Haven, CT, USA

Yael Kimhi Education, Levinsky College of Education, Tel-Aviv, Israel

Jessica Lynn Kinard The University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Bryan King Department of Psychiatry and Behavioral Sciences and Seattle Children's Hospital, University of Washington, Seattle, WA, USA

Robert King School of Applied Psychology, University College Cork, Cork, Ireland

Usha Kini Consultant Clinical Geneticist, Oxford Radcliffe Hospitals NHS Trust University of Oxford, Oxford, UK

Anne V. Kirby Department of Occupational and Recreational Therapies, University of Utah, Salt Lake City, UT, USA

Raymond M. Klein Department of Psychology and Neuroscience, Dalhousie University, Halifax, NS, Canada

Harvey J. Kliman Reproductive and Placental Research Unit, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale University School of Medicine, New Haven, CT, USA

Laura G. Klinger TEACCH Autism Program, Department of Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Vicki Madaus Knapp Applied Behavior Analysis (ABA) Program, Daemen College, Amherst, NY, USA

Rebecca Knickmeyer Department of Psychiatry, University of North Carolina, Chapel Hill, NC, USA

Victoria Knight Faculty of Education, University of British Columbia, Vancouver, BC, Canada

Ryan Knighton The Center for Children with Special Needs, Glastonbury, CT, USA

Newton Public Schools, Newton, MA, USA

Jordan A. Ko Koegel Autism Center/Department of Counseling, Clinical, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, USA

Brittany L. Koegel University of California, Santa Barbara, Santa Barbara, CA, USA

Lynn Kern Koegel Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, USA

Koegel Autism Center, Eli and Edythe L. Broad Center for Asperger Research, University of California, Santa Barbara, CA, USA

Robert L. Koegel Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, USA

Koegel Autism Center/Clinical Psychology, Gevirtz Graduate School of Education, University of California, Santa Barbara, CA, USA

Frances L. Kohl Department of Special Education, University of Maryland, College Park, MD, USA

Natasha Kolivas Olga Tennison Autism Research Centre, La Trobe University, Melbourne, VIC, Australia

Judah Koller Seymour Fox School of Education, Clinical Child Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel

Koorosh Kooros Pediatric Gastroenterology and Nutrition, Rady Children's Hospital, San Diego, University of California San Diego, San Diego, CA, USA

Jonathan Kopel Texas Tech University Health Sciences Center (TTUHSC), Lubbock, TX, USA

Kellie Kotwicki Applied Behavior Analysis, Daemen College, Amherst, NY, USA

Positive ABA, LLC, Queen Creek, AZ, USA

Klara Kovarski Fondation Ophtalmologique A. de Rothschild, Institut de Neuropsychologie, Neurovision et NeuroCognition, Paris, France

CNRS (Integrative Neuroscience and Cognition Center, UMR 8002), Paris, France

Université Paris Descartes, Sorbonne Paris Cité, Paris, France

David J. Krainski Vocational Independence Program, New York Institute of Technology, Central Islip, NY, USA

Cate Kraper Clinical Psychology, University of Massachusetts Boston, Boston, MA, USA

Anna M. Krasno The Gevirtz School, UC Santa Barbara Koegel Autism Center, Santa Barbara, CA, USA

Jennifer M. D. Kremkow Department of Communication Sciences and Disorders, Elmhurst College, Elmhurst, IL, USA

M. Kristen Center for Children with Special Needs, Glastonbury, CT, USA

Kimberly Kroeger-Geoppinger Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Steve Kroupa School of Medicine, The University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Graduate School of Human-Environment Studies, Kyushu University, Fukuoka, Japan

Lydia Kruse Human Development and Family Science, Schoenbaum Family Center, The Ohio State University, Columbus, OH, USA

S. Jay Kuder Department of Interdisciplinary and Inclusive Education, College of Education, Rowan University, Glassboro, NJ, USA

Grace Kuravackel Pediatrics, University of Louisville, Louisville, KY, USA

Sarah Kuriakose Department of Counseling, Clinical, and School Psychology (CCSP), University of California, Santa Barbara, CA, USA

Hiroshi Kurita Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

Onur Kurt Research Institute for Individuals with Disabilities, Anadolu University, Eskisehir, Turkey

Emily S. Kuschner Center for Autism Spectrum Disorders, Division of Neuropsychology, Children's National Medical Center, Washington, DC, USA

Metchan Kutlu Department of Special Education, Hakkari University, Hakkari, Turkey

Jennifer M. Kwon Department of Neurology and Pediatrics (SMD), University of Rochester, School of Medicine and Dentistry, Rochester, NY, USA

Hidemi Kyotani Centre for Autism Research, Technology and Education, Department of Psychology, Victoria, Canada

Szu-Shen Lai Department of Physical Medicine and Rehabilitation, Taoyuan Chang Gung Memorial Hospital, Taoyuan City, Taiwan

Chee Meng Lam Autism Resource Centre, Singapore, Singapore

Kristen Lam UNC Neurodevelopmental Disorders Research Center, UNC-Chapel Hill, Chapel Hill, NC, USA

Rebecca Landa Center for Autism and Related Disorders, Kennedy Krieger Institute's, Baltimore, MD, USA

lii Contributors

Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, USA

Chloe Lane Department of Psychology, University of Sheffield, Sheffield, UK

Russell Lang Clinic for Autism Research Evaluation and Support, Texas State University, San Marcos, TX, USA

Traci Lanner The School at Springbrook, Oneonta, NY, USA

Kyle Lanning Quinnipiac University School of Law, Hamden, CT, USA

Nathaniel Laor Department of Psychiatry, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel

Department of Medical Education, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel

Yale Child Study Center, New Haven, CT, USA

Association for Children at Risk (R.A.), Tel Aviv, Israel

Amanda P. Laprime The Center for Children with Special Needs, Glastonbury, CT, USA

University of Rochester Medical Center, Rochester, NY, USA

Kenneth Larsen Oslo University Hospital, Oslo, Norway

Robert H. LaRue Douglass Developmental Disabilities Center, Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

Susan Latham Department of Communication Disorders, St. Mary's College (IN), Notre Dame, IN, USA

Elizabeth Laugeson UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, USA

Margaret Holmes Laurie Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh, UK

Tara A. Lavelle Center for Value and Risk in Health (CEVR), Tufts Medical Center, Boston, MA, USA

J. Kiely Law Department of Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, USA

Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Kathy Lawton Special Education and Nisonger Center, The Ohio State University, Columbus, OH, USA

Kathy Leadbitter Social Development Research Group, University of Manchester, Manchester, UK

Geraldine Leader Irish Centre for Autism and Neurodevelopmental Research (ICAN), National University of Ireland, Galway (NUI Galway), Galway, Ireland

Justin B. Leaf Autism Partnership Foundation, Seal Beach, CA, USA

Ronald Leaf Autism Partnership Foundation, Seal Beach, CA, USA

Eli R. Lebowitz Yale School of Medicine, Child Study Center, Yale University, New Haven, CT, USA

Emma Lecarie Yale Child Study Center, New Haven, CT, USA

Luc Lecavalier Nisonger Center, Ohio State University, Columbus, OH, USA

Ann S. Le-Couteur Institute of Health and Society, Sir James Spence Institute, Newcastle University, Royal Victoria Infirmary, Newcastle upon Tyne, UK

Katherine Ledbetter-Cho Clinic for Autism Research Evaluation and Support, Texas State University, San Marcos, TX, USA

Elinda Ai Lim Lee School of Occupational Therapy, Social Work and Speech Pathology, Faculty of Health Sciences, Curtin University, Perth, WA, Australia

Curtin Autism Research Group, Curtin University, Perth, WA, Australia

Evon Batey Lee Pediatrics, Kennedy Center/Vanderbilt University, Nashville, TN, USA

Hoe Lee School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

James Hyun Lee Mayo Clinic School of Medicine, Rochester, MN, USA

Jordan Lee Southern Connecticut State University, New Haven, CT, USA

Michelle Lee NYU School of Medicine, New York, NY, USA

Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, USA

Su Mei Lee Child Neuroscience Lab, Yale Child Study Center, New Haven, CT, USA

Susan Leekam School of Psychology, Cardiff University, Cardiff, UK

Jiedi Lei Centre for Applied Autism Research, Department of Psychology, University of Bath, Bath, UK

Yale Child Study Center, School of Medicine, Yale University, New Haven, CT, USA

Michelle Lestrud The Gengras Center, University of Saint Joseph, West Hartford, CT, USA

Cecilia Nga Wing Leung The Jockey Club iREACH Social Competence Development and Employment Support Center, New Life Psychiatric Rehabilitation Association, Kowloon, Hong Kong

liv Contributors

Bennett Leventhal Nathan Kline Institute for Psychiatric Research (NKI), Orangeburg, NY, USA

Harriet Levin University of Connecticut, Storrs, CT, USA

Philip Levin The Help Group – UCLA Neuropsychology Program, Los Angeles, CA, USA

Michael Levine Quinnipiac University School of Law, Hamden, CT, USA

Brianna Lewis Yale Child Study Center, Yale School of Medicine, New Haven, CT, USA

Laura Foran Lewis College of Nursing and Health Sciences, University of Vermont, Burlington, VT, USA

Mark Lewis College of Medicine, University of Florida, Gainesville, FL, USA

Michael Lewis Department of Pediatrics, Institute for the Study of Child Development, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, USA

Moira Lewis Speech-Language Pathologist, Marcus Autism Center Children's Healthcare of Atlanta, Atlanta, GA, USA

Boxing Li Neuroscience Program, Guangdong Provincial Key Laboratory of Brain Function and Disease, Zhongshan School of Medicine and The Fifth Affiliated Hospital, Sun Yat-sen University, Guangzhou, China

Ya-Min Li Clinical Nursing Teaching and Research Section, The Second Xiangya Hospital, Central South University, Changsha, Hunan, China

Yong-Jiang Li Department of Pharmacy, The Second Xiangya Hospital, Central South University, Changsha, Hunan, China

Diane M. Lickenbrock Human Development and Family Studies, The Pennsylvania State University, University Park, PA, USA

Rebecca Lieb NeuroDevelopmental Science Center, Akron Children's Hospital, Akron, OH, USA

Joan Lieber Counseling, Higher Education and Special Education, University of Maryland, College Park, MD, USA

Nataly Lim University of Texas at Austin, Austin, TX, USA

Sok Bee Lim Department of Child Development, KK Women's and Children's Hospital, Singapore, Singapore

Yi Huey Lim School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Charlotte Limosani Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Christie Enjey Lin Departments of Education and Psychiatry, Child and Adolescent Psychiatry, University of California, Los Angeles, CA, USA

Contributors Iv

Sigvard Lingh Uppsala, Sweden

Karen M. Lionello-DeNolf Psychology Department, Assumption College, Worcester, MA, USA

Paul H. Lipkin Department of Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, USA

Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Guodong Liu Division of Health Services and Behavioral Research, Department of Public Health Sciences, The Pennsylvania State University, College of Medicine, Hershey, PA, USA

Ting Liu Department of Health and Human Performance, Texas State University, San Marcos, TX, USA

Patricia Sánchez Lizardi School of Psychology, Universidad Panamericana, Mexico City, Mexico

Ella Lobregt-van Buuren Dimence Institute of Mental Health, Deventer, The Netherlands

Rachel Loftin AARTS Center, Rush University Medical Center, Chicago, IL, USA

Andrew Lolli Quinnipiac University School of Law, Hamden, CT, USA

Michael Lombardo Autism Research Centre, University of Cambridge, Cambridge, UK

Steven Long Speech Pathology and Audiology, Marquette University, Milwaukee, WI, USA

James W. Loomis Center for Children with Special Needs, Glastonbury, CT, USA

Amaia Lopetegui GAUTENA, Donostia, Gipuzkoa, Spain

Catherine Lord Center for Autism and the Developing Brain, New York-Presbyterian Hospital/Westchester Division, White Plains, NY, USA UCLA, Los Angeles, CA, USA

Erin Loring Yale Department of Genetics, New Haven, CT, USA

Molly Losh The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, USA

Susan Luger Susan Luger Associates, New York, NY, USA

James Luiselli May Institute, Randolph, MA, USA

Jan Łukasik Department of Paediatrics, The Medical University of Warsaw, Warsaw, Poland

Joyce Lum UNC TEACCH Autism Program-Charlotte, Charlotte, NC, USA

lvi Contributors

Stanley E. Lunde Psychology, UCLA-MRRC Laboratories, Lanterman Developmental Center (Ret.), Pomona, CA, USA

Yona Lunsky Centre for Addiction and Mental Health, Toronto, ON, Canada

Viktor Lushin Long Island University, New York, NY, USA

Rhiannon J. Luyster Department of Communication Sciences and Disorders, Emerson College, Boston, MA, USA

Kristen Lyall AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

Megan Lyons Laboratory of Developmental Communication Disorders, Yale Social and Affective Neurodevelopment of Autism Program, Yale Child Study Center, New Haven, CT, USA

Suzanne Macari Yale Child Study Center, New Haven, CT, USA

Tim MacLaughlin Department of Special Education, Gonzaga University, Spokane, WA, USA

Kailey MacNeill Department of Communication Sciences and Disorders, The University of Vermont, Burlington, VT, USA

Kelly Macy Department of Communication Sciences, The University of Vermont, Burlington, VT, USA

Brenna B. Maddox Penn Center for Mental Health, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Psychology Department, Virginia Tech, Blacksburg, VA, USA

Leen Maes Department of Rehabilitation Sciences, Ghent University, Ghent, Belgium

Department of Otorhinolaryngology, Ghent University Hospital, Ghent, Belgium

María Magán-Maganto Department of Personality, Assessment, and Psychological Treatment, Centro de Atención Integral al Autismo (INFOAUTISMO), University Institute of Community Integration (INICO), University of Salamanca, Salamanca, Spain

Iliana Magiati Department of Psychology, National University of Singapore, Singapore, Singapore

School of Psychological Science, University of Western Australia, Crawley, WA, Australia

Caroline I. Magyar Magyar Psychological Services, LLC, Rochester, NY, USA

Kelly Mahler Mahler Occupational Therapy, Hershey, USA

Marsha R. Mailick Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Zoe Mailloux Private Practice, Redondo Beach, CA, USA

Mark Malady Florida Institute of Technology, Melbourne, FL, USA

Savita Malhotra Fortis Hospital, Mohali, Punjab, India

Beth Malow Sleep Disorders Division, Department of Neurology, Vanderbilt University Medical Center, Nashville, TN, USA

David S. Mandell Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, USA

University of Pennsylvania, Philadelphia, PA, USA

William Mandy Research Department of Clinical, Educational and Health Psychology, University College London, London, UK

Melissa Manjarrés Speech Pathology and Audiology, Marquette University, Milwaukee, WI, USA

Deepali Mankad Holland Bloorview Kids Rehabilitation Hospital, Bloorview Research Institute, Toronto, ON, Canada

Arlene Mannion Irish Centre for Autism and Neurodevelopmental Research (ICAN), National University of Ireland, Galway (NUI Galway), Galway, Ireland

Katie L. Maras Centre for Applied Autism Research (CAAR), Department of Psychology, University of Bath, Bath, UK

Mariana Marchitto Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Lee Marcus TEACCH Autism Program, University of North Carolina, Chapel Hill, NC, USA

Lucia Margari Child Neuropsychiatry Unit, University of Bari "Aldo Moro", Bari, Italy

C Amigo María Child and Adolescents Psychiatrist, ASD Department, Pereira Rossell Hospital – ASSE, Montevideo, Uruguay

Flavia Marino Institute for Biomedical Research and Innovation (IRIB), National Research Council of Italy (CNR), Messina, Italy

Richard Marks Florida State University, Tallahassee, FL, USA

Michelle Marlborough Operational Stress Injury Clinic, Parkwood Institute, St. Joseph's Health Care London, London, ON, Canada

Christina N. Marsack-Topolewski College of Health and Human Services, Eastern Michigan University, Ypsilanti, MI, USA

Carolyn L. Marsh Yale Child Study Center, New Haven, CT, USA

Kimberly Marshall Center for Children with Special Needs, Glastonbury, CT, USA

Itxaso Marti Neuropediatrics, Hospital Universitario Donostia, San Sebastian, Spain

lviii Contributors

Andres Martin Yale Child Study Center, New Haven, CT, USA

Marta Martinez Southern Connecticut State University, New Haven, CT, USA

Nicole Martins Indiana University, Bloomington, IN, USA

Lisa E. Mash San Diego State University/University of California, San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA

David Mason Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, UK

Susan A. Mason Services for Students with Autism Spectrum Disorders, Montgomery County Public Schools, Silver Spring, MD, USA

Natasa Mateljevic Yale University, New Haven, CT, USA

Leny Mathew AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

Johnny L. Matson Department of Psychology, Louisiana State University, Baton Rouge, LA, USA

Tara Matthews Children's Specialized Hospital, Mountainside, NJ, USA

Jennifer Gillis Mattson Institute for Child Development, Department of Psychology, Binghamton University, Binghamton, NY, USA

Melissa Maye Clinical Psychology, University of Massachusetts Boston, Boston, MA, USA

Carla A. Mazefsky Department of Psychiatry, School of Medicine, University of Pittsburgh, Pittsburgh, PA, USA

Micah O. Mazurek Curry School of Education and Human Development, University of Virginia, Charlottesville, VA, USA

David McAdam Department of Pediatrics, University of Rochester Medical Center, Rochester, NY, USA

Bonnie McBride Intervention Services for Autism, University of Oklahoma College of Medicine, Oklahoma City, OK, USA

Gregory McCarthy Department of Psychology, Yale University, New Haven, CT, USA

Maryellen Brunson McClain Department of Psychology, Utah State University, Logan, UT, USA

Iain McClure The Royal Hospital for Sick Children, Edinburgh, UK University of Edinburgh, Edinburgh, Scotland, UK

Jennifer McCullagh Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Christin A. McDonald Nationwide Children's Hospital's Center for Autism Spectrum Disorders, Westerville, OH, USA

Christina G. McDonnell Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Christopher J. McDougle Lurie Center for Autism, Massachusetts General Hospital, Lexington, MA, USA

Nancy Lurie Marks Professorship in the Field of Autism, Harvard Medical School, Boston, MA, USA

Andrea McDuffie MIND Institute University of California-Davis, Sacramento, CA, USA

John McEachin Autism Partnership Foundation, Seal Beach, CA, USA

Kate McFadden Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

Tyler McFayden Department of Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Elizabeth McGarry Koegel Autism Center/Department of Counseling, Clinical, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, USA

Jenny McGinley Physiotherapy, Centre for Movement Disorders and Gait Research, Southern Health, The University of Melbourne, Parkville, VIC, Australia

Cali McGinn Center for Children with Special Needs, Glastonbury, CT, USA

Richard McGrath School of Health Sciences, University of South Australia, Adelaide, SA, Australia

John McGrew Indiana University – Purdue University at Indianapolis, Indianapolis, IN, USA

Nancy S. McIntyre Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, NC, USA

Heather McKay Quinnipiac University School of Law, Hamden, CT, USA

Desmond McKernan Asperger Syndrome Association of Ireland (Aspire), Dublin, Ireland

Elizabeth P. McKernan Department of Psychology, Syracuse University, Syracuse, NY, USA

William McMahon Department of Psychiatry, University of Utah, Salt Lake City, UT, USA

Edward McNulty Quinnipiac University School of Law, Hamden, CT, USA

James C. McPartland School of Medicine, Child Study Center, Yale University, New Haven, CT, USA

Shantel E. Meek School of Social and Family Dynamics, Arizona State University, Tempe, AZ, USA

lx Contributors

Karen Meers Center of Excellence on Autism Spectrum Disorders, Southern Connecticut State University, New Haven, CT, USA

Nagwa Abdel Meguid Research on Children with Special Needs, National Research Centre, Cairo, Egypt

Smita Shukla Mehta Department of Educational Psychology, University of North Texas, Denton, TX, USA

Lisa J. Meier Department of Psychology, George Mason University, Falls Church, VA, USA

Sarah Melchior School Psychologist, Services for Students with Autism Spectrum Disorders Montgomery County Public Schools, Silver Spring, MD, USA

Alicia Melis Department of Developmental and Comparative Psychology, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

Kellen Mermin-Bunnell Yale Child Study Center, New Haven, CT, USA

Liesbeth Mevissen Trajectum, (Forensic) Treatment Facility for Adults with Intellectual Disabilities, Zwolle, The Netherlands

Judith Meyers Child Health and Development Institute of Connecticut, Farmington, CT, USA

Euripedes Constantino Miguel Department of Psychiatry, Faculty of Medicine, University of Sao Paulo, Sao Paulo, Brazil

Helga O. Miguel Section on Analytical and Functional Biophotonics, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, USA

Michael Miklos Pennsylvania Training and Technical Assistance Network, Harrisburg, PA, USA

Judith H. Miles Pediatrics, Medical Genetics and Pathology, The Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, USA

Margaret Millea Department of Psychology, University of Notre Dame, Notre Dame, IN, USA

Amber R. Miller Koegel Autism Center/Department of Counseling, Clinical, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, USA

Kaitlin Koffer Miller Policy and Analytics Center, A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

Lauren E. Miller Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Lucy Jane Miller STAR Institute for Sensory Processing Disorder, Greenwood Village, CO, USA

Department of Pediatrics, University of Colorado Denver, Denver, CO, USA

Contributors lxi

Trube C. Miller Department of Educational Studies, Hardin-Simmons University, Abilene, TX, USA

Catherine Miltenberger Trumpet Behavioral Health, Lakewood, CO, USA

Damian Milton Tizard Centre, University of Kent, Canterbury, Kent, UK

Damian Elgin Maclean Milton Tizard Centre, University of Kent, Canterbury, Kent, UK

Ruud Minderaa Department of Psychiatry, University of Groningen, University Medical Center Groningen, Groningen, The Netherlands

Helen Minnis Institute of Health and Wellbeing, University of Glasgow, Glasgow, UK

Nancy J. Minshew Departments of Psychiatry and Neurology, University of Pittsburgh, Pittsburgh, PA, USA

Ana Miranda University of Valencia, Valencia, Spain

Sarah S. Mire University of Houston, Houston, TX, USA

Jacquelyn Moffitt Department of Child and Adolescent Studies, California State University, Fullerton, Fullerton, CA, USA

John Molteni Institute for Autism and Behavioral Studies, University of Saint Joseph, West Hartford, CT, USA

Guillermo Montes St. John Fisher College, Rochester, NY, USA

David Moore School of Psychology, Liverpool John Moores University, Liverpool, UK

Marcel Moran Indiana University School of Medicine, Indianapolis, IN, USA

Montana T. Morris UCSF Weill Institute for Neurosciences, San Francisco, CA, USA

Susan Morris School of Physiotherapy and Exercise Science, Curtin University, Perth, WA, Australia

Maya G. Mosner UNC-Chapel Hill, Carolina Institute for Developmental Disabilities, Chapel Hill, NC, USA

Philippa Moss Psychology, Great Ormond Street Hospital, London, UK

Stewart Mostofsky Kennedy Krieger Institute, Baltimore, MD, USA

Laurent Mottron Center of Excellence in Pervasive Developmental Disorders of University of Montreal, Montreal, QC, Canada

Department of Psychiatry, Riviere-des-Prairies Hospital, University of Montreal, Montreal, QC, Canada

Svend Erik Mouridsen Child and Adolescent Psychiatry Centre, Bispebjerg University Hospital, Copenhagen, Denmark

lxii Contributors

Maura Moyle Speech Pathology and Audiology, Marquette University, Milwaukee, WI, USA

Dennis Mozingo Integrated Behavioral Solutions, Atlanta, GA, USA

Daniel W. Mruzek Department of Pediatrics (SMD), University of Rochester, School of Medicine and Dentistry, Rochester, NY, USA

Vannesa T. Mueller Speech-Language Pathology Program, University of Texas at El Paso College of Health Science, El Paso, TX, USA

Janyl Mukashova Autism Program, Bulat Utemuratov Foundation, Almaty, Kazakhstan

Cora Mukerji Yale Child Study Center, New Haven, CT, USA

James Anton Mulick Child Development Center Columbus Children's Hospital, Columbus, OH, USA

Ralph-Axel Müller Department of Psychology, San Diego State University, San Diego, CA, USA

Rebecca Munday The Center for Children with Special Needs, Glastonbury, CT, USA

Peter Mundy Psychiatry and School of Education, UC Davis, Davis, CA, USA

Kerim M. Munir Division of Developmental Medicine, Boston Children's Hospital, Boston, MA, USA

Harvard Medical School, Boston, MA, USA

John D. Murdoch Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Dinah Murray National Autistic Taskforce, London, UK

Donna S. Murray Division of Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Kim Musheno Legislative Affairs, Association of University Centers on Disabilities, Silver Spring, MD, USA

Michelle Myers The School at Springbrook, Oneonta, NY, USA

Marie Nabbout-Cheiban School of Education, Southern Connecticut State University, New Haven, CT, USA

Josh Nadeau Rogers Behavioral Health, Tampa, FL, USA Psychology, University of South Florida, St. Petersburg, FL, USA

Aparna Nadig School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada

Tzipi Nagel-Edelstein Association for Children at Risk (R.A.), Tel Aviv, Israel

Jo Anne Nakagawa Tuberous Sclerosis Alliance, Silver Spring, MD, USA

Adam Naples Yale Child Study Center, Yale University, New Haven, CT, USA

Deborah Napolitano Applied Behavior Analysis, Daemen College, Amherst, NY, USA

Golisano Institute for Developmental Disability Nursing, St. John Fisher College, Rochester, NY, USA

Anahita Navab Department of Psychology, University of California, Los Angeles, CA, USA

Ahsan Nazeer Department of Psychiatry, Sidra Medicine, Doha, Qatar Weill Cornell Medicine, Doha, Qatar

Nicole Neil Faculty of Education, Western University, London, ON, Canada

Seth Ness Department of Neuroscience, Janssen Research and Development, LLC, Titusville, NJ, USA

Maureen Nevers Center on Disability and Community Inclusion, University of Vermont, Burlington, VT, USA

Augmentative Communication Consultant, Center on Disability and Community Inclusion, Burlington, VT, USA

Rose E. A. Nevill Curry School of Education and Human Development University of Virginia, Charlottesville, VA, USA

Diana B. Newman Communication Disorders Department, Southern Connecticut State University, New Haven, CT, USA

Tina Newman The Center for Children with Special Needs, Glastonbury, CT, USA

Brandon Nichols The School at Springbrook, Oneonta, NY, USA

Antonio Gennaro Nicotera Oasi Research Institute – IRCCS, Troina, Italy Child Neuropsychiatry Unit, Department of Human Pathology of the Adult and Developmental Age, University Hospital "G. Martino", Messina, Italy

Jacqueline A. Noonan Department of Pediatrics, University of Kentucky, College of Medicine, Lexington, KY, USA

Courtenay Norbury Psychology Department, Royal Holloway, University of London, Egham, Surrey, UK

Anders Nordahl-Hansen Faculty of Education, Østfold University College, Halden, Norway

Department of Special Needs Education, UiO University of Oslo, Oslo, Norway

Eva Nordin-Olsson Department of Child and Adolescent Psychiatry, Gillberg Neuropsychiatry Centre, University of Gothenburg, Gothenburg, Sweden

lxiv Contributors

Elizabeth C. Nulty Center for Children with Special Needs, Glastonbury, CT, USA

Heather J. Nuske Penn Center for Mental Health, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Lena Nylander Department of Psychiatry, Clinical Sciences, Lund University, Lund, Sweden

Marisa O'Boyle Clinical Psychology, University of Massachusetts Boston, Boston, MA, USA

Kirsten O'Hearn Laboratory of Neurocognitive Development, Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

Carmel O'Sullivan Trinity College, University of Dublin, Dublin, Ireland

Leona Oakes Department of Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, USA

Jordi E. Obiols Department of Clinical and Health Psychology, Psychopathology and Neuropsychology Research Unit, Universitat Autonoma de Barcelona, Barcelona, Spain

Emily Ochi Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California (USC), Los Angeles, CA, USA

Samuel L. Odom Child Development, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Paul A. Offit Division of Infectious Diseases, Department of Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, USA

Roald A. Øien Department of Psychology/Department of Education, UIT – The Arctic University of Norway, University of Tromsø, Tromsø, Norway Yale Child Study Center, Yale Autism Program, Yale University School of Medicine, New Haven, CT, USA

Melody Oliphant Yale Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Kim E. Ono Department of Psychology, University of Miami, Coral Gables, FL, USA

Devon Oosting Yale Child Study Center, Center for Translational Developmental Neuroscience, New Haven, CT, USA

Alyssa Orinstein Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Boston University School of Medicine, Boston, MA, USA

Felice Orlich Autism Psychology Services, Seattle Children's Hospital CAC – Autism Center, Seattle, WA, USA

Contributors Ixv

Mitsuhiko Ota School of Philosophy, Psychology and Language Sciences, University of Edinburgh, Edinburgh, UK

Ria Pal University of Rochester School of Medicine and Dentistry, Rochester, NY, USA

Jessica Palilla Departments of Psychology and Neuroscience, Brigham Young University, Provo, UT, USA

Shannon Palmer Central Michigan University, Mount Pleasant, MI, USA

Kate Palmer GRASP, New York, NY, USA

Mark Palmieri Feeding Clinic, Center for Children with Special Needs, Glastonbury, CT, USA

Gahan Pandina Department of Neuroscience, Janssen Research and Development, LLC, Titusville, NJ, USA

Vincent Pandolfi Department of Psychology, Rochester Institute of Technology, Rochester, NY, USA

Brittany Panuzio Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Chris Papadopoulos University of Bedfordshire | Luton Campus, Luton, UK

Mi Na Park Department of Counseling, Clinical, and School Psychology, University of California The Gevirtz School, Santa Barbara, CA, USA

Jeremy Parr Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, UK

Sir James Spence Institute, Institute of Health and Society, Newcastle University, Royal Victoria Infirmary, Newcastle Upon Tyne, UK

Rizwan Parvez Yale Child Study Center, New Haven, CT, USA

Bernadeta Patro-Goląb Department of Paediatrics, The Medical University of Warsaw, Warsaw, Poland

Vanessa Patrone Applied Behavior Analysis, Daemen College, Amherst, NY, USA

Kartik Pattabiraman Child Study Center, Yale School of Medicine, New Haven, CT, USA

Department of Psychiatry, Yale School of Medicine, New Haven, CT, USA

Diane R. Paul Clinical Issues in Speech-Language Pathology, American Speech-Language-Hearing Association, Rockville, MD, USA

Rhea Paul Department of Speech and Language Pathology, College of Health Professions, Sacred Heart University, Fairfield, CT, USA

Markus Paulus Department Psychology, Ludwig-Maximilians-Universität München, Munich, Germany

lxvi Contributors

Deborah A. Pearson Department of Psychiatry and Behavioral Sciences, University of Texas Medical School at Houston, Houston, TX, USA

Melanie Pellecchia University of Pennsylvania, Philadelphia, PA, USA

Elizabeth Pellicano Macquarie School of Education, Macquarie University, Sydney, NSW, Australia

Liz Pellicano Centre for Research in Autism and Education (CRAE), Department of Psychology and Human Development, Institute of Education, University of London, London, UK

Kevin A. Pelphrey Harris Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Sue Peppé High Appin, Tynron, Thornhill, UK

Celal Perihan Idaho State University, Pocatello, ID, USA

Kate S. Perri Christian Sarkine Autism Treatment Center, Riley Hospital for Children, Indianapolis, IN, USA

Danielle Perszyk Yale Child Study Center, New Haven, CT, USA

Mario C. Petersen Child Development and Rehabilitation Center, Oregon Health Science University, Eugene, OR, USA

Neysa Petrina University of Sydney, Sydney, NSW, Australia

Laura Phipps Munroe Meyer Institute, University of Nebraska Medical Center, Omaha, NE, USA

Denise Phua Autism Association Singapore, Pathlight School and Eden School, Autism Resource Centre, Singapore, Singapore

Janice N. Phung Department of Psychology, California State University San Marcos, San Marcos, CA, USA

Andrew Pickles School of Epidemiology and Health Science, University of Manchester, Manchester, UK

Madison Pilato Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, USA

Melanie Pinkett-Davis Center for Autism and Related Disorders, Kennedy Krieger Institute's, Baltimore, MD, USA

Giovanni Pioggia Institute for Biomedical Research and Innovation (IRIB), National Research Council of Italy (CNR), Messina, Italy

Ozgur Pirgon Department of Pediatrics, Division of Pediatric Endocrinology, S. Demirel University, Isparta, Turkey

Rachel Plant Southern Connecticut State University, New Haven, CT, USA

Joshua B. Plavnick Michigan State University, East Lansing, MI, USA

Contributors lxvii

Bertram O. Ploog Department of Psychology, Center for Developmental Neuroscience, College of Staten Island and Graduate Center, City University of New York, Staten Island, NY, USA

Claire Plowgian Speech Pathology and Audiology, Marquette University, Milwaukee, WI, USA

Guilherme Vanoni Polanczyk Department of Psychiatry, Faculty of Medicine, University of Sao Paulo, Sao Paulo, Brazil

Anamiguel Pomales-Ramos Yale Child Study Center, New Haven, CT, USA

Kenneth K. Poon Early Childhood and Special Needs Education, National Institute of Education (NIE), Nanyang Technological University, Singapore, Singapore

Ben Popple White Oak Pediatric Dentistry, Newnan, GA, USA

Sue Porr Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Kristen M. Powers Coordinator of Rehabilitative Services, Center for Children with Special Needs, Glastonbury, CT, USA

Michael D. Powers The Center for Children with Special Needs, Glastonbury, CT, USA

Shirley Poyau Clinical Psychology, University of Massachusetts Boston, Boston, MA, USA

Pilar Pozo Joint Research Institute National University for Distance Education and Health Institute Carlos III (IMIENS), Madrid, Spain

Faculty of Psychology, National University for Distance Education (UNED), Madrid, Spain

Cathy Pratt Indiana Resource Center for Autism, Indiana University, Bloomington, IN, USA

Patricia Prelock Communication Sciences and Disorders, Dean's Office, College of Nursing and Health Sciences, Burlington, VT, USA

Rebecca Edmondson Pretzel Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Josh Pritchard Applied Behavior Analysis, Florida Institute of Technology, Orlando, FL, USA

Zheala Qayyum Department of Psychiatry, Yale University, New Haven, CT, USA

Rachael Quicquaro Southern Connecticut State University, New Haven, CT, USA

Colleen Quinn Rivendale, Arc of the Ozarks, Springfield, MO, USA

lxviii Contributors

Ana Figueroa Quintana Child and Adolescent Psychiatry Unit, Hospital Perpetuo Socorro, Las Palmas, Spain

E. M. Quintin Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada

Hala Raad Division of Child and Adolescent Psychiatry, Department of Psychiatry, American University of Beirut Medical Center, Beirut, Lebanon

Carol Rabideau Vanderbilt Kennedy Center, Nashville, TN, USA

Diana Rafaela Centro Hospitalar do Baixo Vouga, Aveiro, Portugal

Deborah Rafferty Department of Psychology, Texas Christian University, Fort Worth, TX, USA

Ramkripa Raghavan Center on Early Life Origins of Disease, Department of Population, Family and Reproductive Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, USA

Adithyan Rajaraman UMBC, Baltimore, MD, USA

Isabelle Rapin Neurology and Pediatrics (Neurology), Albert Einstein College of Medicine, Bronx, NY, USA

Karen Ratcliff Occupational Therapy Department, University of Texas Medical Branch, Galveston, TX, USA

Kristin Ratliff Research and Development, Western Psychological Services, Torrance, CA, USA

Reinhold Rauh Department of Child and Adolescent Psychiatry, Psychotherapy, and Psychosomatics; Medical Center, University of Freiburg, Faculty of Medicine University of Freiburg, Germany, Freiburg, Germany

Corey Ray-Subramanian Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Sarah Raza Department of Pediatrics, University of Alberta, Edmonton, AB, Canada

Autism Research Centre, Glenrose Rehabilitation Hospital, Edmonton, AB, Canada

Devon Hartford Redmond Child and Family Development, Charlotte, NC, USA

Brian Reichow Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Anita Zucker Center for Excellence in Early Childhood Studies, University of Florida, Gainesville, FL, USA

Beau Reilly Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Noah Remnick Ezra Stiles College, Yale University, New Haven, CT, USA

Contributors lxix

> Patricia Renno Department of Education, University of California, Los Angeles, Los Angeles, CA, USA

Ann Reynolds Pediatrics, Child Development Unit, Aurora, CO, USA

Catherine E. Rice National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, USA

Amanda Richdale Olga Tennison Autism Research Centre, La Trobe University, Melbourne, VIC, Australia

Raili Riikonen Department of Child Neurology, University of Kuopio, Kuopio, Finland

Nicole Rinehart Deakin Child Study Centre, School of Psychology, Faculty of Health, Deakin University, Geelong, VIC, Australia

Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, VIC, Australia

Mandy Rispoli Purdue University, West Lafayette, IN, USA

Ariella Riva Ritvo Child Study Center, Yale School of Medicine, Yale University, Los Angeles, CA, USA

Edward R. Ritvo UCLA School of Medicine, Los Angeles, CA, USA

Jane Roberts Department of Psychology, University of South Carolina, Columbia, SC, USA

Timothy P. L. Roberts Radiology Department, Children's Hospital of Philadelphia, Philadelphia, PA, USA

Ashley E. Robertson School of Psychological, Social and Behavioural Sciences, Faculty of Health and Life Sciences, Coventry University, Coventry, UK

Diana L. Robins AJ Autism Drexel Institute, Drexel University, Philadelphia, PA, USA

Anna Robinson Centre for Autism Studies, Scottish Centre for Applied Autism Research, University of Strathclyde, Glasgow, UK

Janine Robinson CLASS, Cambridgeshire and Peterborough NHS Foundation Trust, Fulbourn, Cambridgeshire, UK

NHS England, London, UK

Adriano Rodrigues Health Sciences Center, Federal University of Piaui – UFPI, Teresina, Brazil

Jessica L. Roesser Department of Pediatrics (SMD), University of Rochester, School of Medicine and Dentistry, Rochester, NY, USA

Edward R. Ritvo: deceased.

lxx Contributors

Amanda Roestorf Department of Psychology, Faculty of Natural Sciences, University of Stirling, Stirling, Scotland

Bernadette Rogé CERPPS, Université Toulouse Jean Jaurès, Toulouse, France

CeRESA (Centre Régional d'Education et de Services pour l'Autisme), Institut Universitaire de France (IUF), Toulouse, France

Sally J. Rogers Department of Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, USA

Anna Rogulina Southern Connecticut State University, New Haven, CT, USA

Jessica Rohrer The Center for Children with Special Needs, Glastonbury, CT, USA

Johannes Rojahn Department of Psychology, George Mason University, Fairfax, VA, USA

Raymond G. Romanczyk Institute for Child Development, Department of Psychology, Binghamton University, Binghamton, NY, USA

Elizabeth M. G. Romero Attention, Behavior and Cognition, LLC, Worcester, MA, USA

Jenny R. Root School of Teacher Education, College of Education, Florida State University, Tallahasee, FL, USA

Danielle Ropar School of Psychology, University of Nottingham, Nottingham, UK

Michael Rosanoff Autism Speaks, New York, NY, USA

Belen Rosello University of Valencia, Valencia, Spain

Sara D. Rosenblum-Fishman Psychology, University of Massachusetts Boston, Boston, MA, USA

April Rosenkrantz Quinnipiac University School of Law, Hamden, CT, USA

Allyson Ross Florida Institute of Technology, Melbourne, FL, USA

Edoardo Rosso ECH Inc., Adelaide, South Australia, Australia

Erin Rotheram-Fuller School Psychology, Department of Psychological Studies in Education, College of Education Temple University, Philadelphia, PA, USA

Justin Rowberry Developmental and Behavioral Pediatrics, New Haven, CT, USA

Sonia Rowley Child Study Center, Yale School of Medicine, Yale University, New Haven, CT, USA

Eric Rubenstein Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Lisa Ruble Educational School and Counseling Psychology, University of Kentucky, Lexington, KY, USA

Kristin Ruedel Department of Special Education, University of Maryland Washington State University, Richland, WA, USA

Ailsa Russell Centre for Applied Autism Research, Department of Psychology, University of Bath, Bath, UK

Natalie Russo Department of Psychology, Syracuse University, Syracuse, NY, USA

Samantha Russo Institute for Behavioral Studies, Endicott College, Beverly, MA, USA

Ikram Rustamov Child Mental Health and Development Center, Azerbaijan Medical University, Baku, Azerbaijan

Liliana Ruta Institute for Biomedical Research and Innovation (IRIB), National Research Council of Italy (CNR), Messina, Italy

Marion Rutherford Queen Margaret University, Edinburgh, Scotland, UK

Khaled Saad Faculty of Medicine, Assiut University, Assiut, Egypt

Mohammad Nasser Saadatzi Department of Electrical and Computer Engineering, University of Louisville, Louisville, KY, USA

Lori-Ann Sacrey Department of Pediatrics, University of Alberta, Edmonton, AB, Canada

Autism Research Centre, Glenrose Rehabilitation Hospital, Edmonton, AB, Canada

Mustafa Sahin Department of Neurology, Children's Hospital Boston, Harvard Medical School, Boston, MA, USA

Catalina Sakai Child Study Center, Program on Neurogenetics, Yale School of Medicine, New Haven, CT, USA

Carlos Marcín Salazar Clínica Mexicana de Autismo y Alteraciones del Desarrollo, A. C., Mexico City, Mexico

Stephan Sanders Child Study Center, Yale University, New Haven, CT, USA

Tanja Sappok Berlin Center for Mental Health in Intellectual Developmental Disabilities, Ev. Krankenhaus Königin Elisabeth Herzberge (KEH), Berlin, Germany

Geeta Sarphare Department of Child and Adolescent Psychiatry, Kennedy Krieger Institute, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Encarnación Sarriá Joint Research Institute National University for Distance Education and Health Institute Carlos III (IMIENS), Madrid, Spain Faculty of Psychology, National University for Distance Education (UNED),

Madrid, Spain

lxxii Contributors

Noah J. Sasson The University of Texas at Dallas, Richardson, TX, USA

Celine A. Saulnier Department of Pediatrics, Emory University School of Medicine, Atlanta, GA, USA

David Saunders Yale Child Study Center, New Haven, CT, USA

Sarah Savage Institute of Psychiatry, Psychology and Neuroscience King's College, London, UK

Lawrence David Scahill Nursing and Child Psychiatry, Yale Child Study Center, Yale University School of Nursing, New Haven, CT, USA

Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, USA Department of Pediatrics, Emory University, Atlanta, GA, USA

Angela Scarpa Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Virginia Tech Autism Clinic and Center for Autism Research, Blacksburg, VA, USA

Christian Patrick Schaaf Institute of Human Genetics, Heidelberg University, Heidelberg, Germany

Roseann Schaaf Department of Occupational Therapy, Faculty, Farber Institute for Neurosciences, Jefferson College of Rehabilitation Sciences, Thomas Jefferson University, Philadelphia, PA, USA

Ulrich Max Schaller Department of Psychiatry and Psychotherapy Medical Center, University of Freiburg, Faculty of Medicine University of Freiburg, Germany, Freiburg, Germany

David Schelly Department of Occupational Therapy, Clarkson University, Potsdam, NY, USA

David Schena Department of Psychology, University of Alabama, Tuscaloosa, AL, USA

Synnve Schjølberg Child Health and Development, Mental and Physical Health, Norwegian Institute of Public Health, Oslo, Norway

Rebecca Schmidt Department of Public Health Sciences and the MIND Institute, University of California, Davis, Davis, CA, USA

Lauren Schmitt Psychiatry, UT Southwestern Medical Center, Dallas, TX, USA

Naomi Schneider College of Education and Human Ecology, The Ohio State University, Columbus, OH, USA

Sarah A. Schoen Sensory Processing Disorder Foundation, Rocky Mountain University of Health Professions, Denver, CO, USA

Elizabeth Schoen Simmons Department of Psychological Sciences, University of Connecticut, Storrs, CT, USA

Winifred Schultz-Krohn Department of Occupational Therapy, San José State University, San José, CA, USA

Cyndi Schumann UC Davis M.I.N.D. Institute, Sacramento, CA, USA

Jessica Oeth Schuttler Center for Child Health and Development, University of Kansas Medical Center, Kansas City, KS, USA

Tobias Schuwerk Department Psychology, Ludwig-Maximilians-Universität München, Munich, Germany

Caley B. Schwartz Department of Psychology, University of Miami, Coral Gables, FL, USA

Ilene Sharon Schwartz Haring Center for Applied Research and Training in Education, University of Washington, Seattle, WA, USA

John W. Scibak State Representative, Commonwealth of Massachusetts, South Hadley, MA, USA

Haleigh M. Scott Department of Disability and Human Development, University of Illinois at Chicago, Chicago, IL, USA

Melissa Scott School of Occupational Therapy, Social Work and Speech Pathology, Curtin University, Perth, WA, Australia

Curtin Autism Research Group, Curtin University, Perth, WA, Australia

Felicity Sedgewick School of Education, University of Bristol, Bristol, UK

Ifat Seidman Department of Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel

Trisha Self Wichita State University, Department of Communication Sciences and Disorders, Wichita, Kansas, USA

Marsha Mailick Seltzer Waisman Center, University of Wisconsin-Madison, Madison, WI, USA

Atsushi Senju Centre for Brain and Cognitive Development, Birkbeck, University of London, London, UK

Kapila Seshadri Department of Pediatrics, Division of Developmental Behavioral Pediatrics, TJH Medical Services, Jamaica, NY, USA

Amitta Shah The NAS Lorna Wing Centre for Autism, Bromley, Kent, UK

Ruchita Shah Department of Psychiatry, Postgraduate Institute of Medical Education and Research, Chandigarh, India

Jeffrey D. Shahidullah Department of Psychiatry, Dell Medical School, The University of Texas at Austin, Austin, TX, USA

Wendy E. Shaia Social Work Community Outreach Service, University of Maryland School of Social Work, Baltimore, MD, USA

Aditya Sharma Academic Child and Adolescent Mental Health, Sir James Spence Institute Newcastle University, Newcastle upon Tyne, UK

lxxiv Contributors

Katie Shattuck School of Nursing, University of North Carolina-Chapel Hill, University of North Carolina School of Medicine, Chapel Hill, NC, USA

Paul Shattuck George Warren Brown School of Social Work, Washington University, St. Louis, MO, USA

Ramzi Shawahna Department of Physiology, Pharmacology and Toxicology, Faculty of Medicine and Health Sciences, An-Najah National University, Nablus, Palestine

Lindsay Shea Policy and Analytics Center, A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

Victoria Shea Department of Psychiatry, TEACCH Autism Program, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Daniel Tan Lei Shek Department of Applied Social Sciences, The Hong Kong Polytechnic University, Hung Hom, Hong Kong

Daniel Shepherd Auckland University of Technology, Auckland, New Zealand

Elizabeth Sheppard School of Psychology, University of Nottingham, Nottingham, UK

Mark Sherry Department of Sociology and Anthropology, University of Toledo, Toledo, OH, USA

Lori S. Shery ASPEN (asperger/Autism SPectrum Education Network), Edison, NJ, USA

Frederick Shic School of Medicine, Yale Child Study Center, Yale University, School of Medicine, New Haven, CT, USA

Stephanie Y. Shire Special Education and Clinical Sciences, College of Education, University of Oregon, Eugene, OR, USA

Carolyn M. Shivers Virginia Tech Center for Autism Research, Virginia Tech, Blacksburg, VA, USA

Department of Psychology, Vanderbilt University, Nashville, TN, USA

Timothy Shriver Special Olympics, Inc., Washington, DC, USA

Oren Shtayermman New York Institute of Technology Mental Health Counseling, Old Westbury, NY, USA

Lisa Shull Division of Neurodevelopmental and Behavioral Pediatrics, Golisano Children's Hospital, University of Rochester School of Medicine, Jamaica, NY, USA

Clinical Psychology, Long Island University, Brooklyn, NY, USA

Cory Shulman The Paul Baerwald School of Social Work, The Hebrew University of Jerusalem, Jerusalem, Israel

Sarah Shultz Department of Psychology, Yale University, New Haven, CT, USA

Contributors lxxv

Reet Sidhu Department of Pediatric Neurology, Columbia University, New York, NY, USA

Bryna Siegel Autism Clinic, Department of Child and Adolescent Psychiatry, University of California, San Francisco, San Francisco, CA, USA

Laura B. Silverman Department of Pediatrics, University of Rochester, School of Medicine and Dentistry, Rochester, NY, USA

Zi Lin Sim Autism Resource Centre, Singapore, Singapore

David R. Simmons School of Psychology, University of Glasgow, Glasgow, UK

Kathryn A. Simon Yale Child Study Center, New Haven, CT, USA

Linda Rumanoff Simonson Benhaven, Inc., North Haven, CT, USA

Alison Singer Autism Science Foundation, New York, NY, USA

Anjileen Singh Counseling, Clinical, and School Psychology, UC Santa Barbara, Santa Barbara, CA, USA

Vini Singh Center for Autism and Related Disorders, Kennedy Krieger Institute's, Baltimore, MD, USA

Danielle Sipsock Child and Adolescent Psychiatry, Warren Alpert Medical School of Brown University, Riverside, RI, USA

Carmel Sivaratnam Deakin Child Study Centre, School of Psychology, Faculty of Health, Deakin University, Geelong, VIC, Australia

Angelo T. R. Sivathasan Department of Child and Adolescent Psychiatry/ Psychology, Erasmus Medical Center-Sophia Children's Hospital, Rotterdam, The Netherlands

Bram Sizoo Psychiatry, Center for Developmental Disorders, Deventer, The Netherlands

Ingjerd Skafle Faculty of Education, Østfold University College, Halden, Norway

David Skuse UCL Great Ormond Street Institute of Child Health, London, UK

Nicole Slade Department of Psychology, University of Massachusetts Boston, Boston, MA, USA

Ingrid E. Sladeczek McGill University, Montreal, QC, Canada

Alexandra M. Slaughter University of Houston, Houston, TX, USA

Virginia Slaughter University of Queensland, Brisbane, QLD, Australia

Jonathan Sliva Quinnipiac University School of Law, Hamden, CT, USA

Martyna Smielewska Quinnipiac University School of Law, Hamden, CT, USA

lxxvi Contributors

Elizabeth G. Smith Department of Psychology, University of Rochester (NY), Rochester, NY, USA

Holly Smith Psychology Department, University of Canterbury, Christchurch, New Zealand

Isaac C. Smith Department of Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Jonathan Smith University of Rochester Medical Center, Rochester, NY, USA

Tristram Smith Department of Pediatics, University of Rochester Medical Center, Rochester, NY, USA

Wanda L. Smith Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada

Anne Snow Child Study Center, Autism Program, Yale University, New Haven, CT, USA

Kate Snyder University of Cincinnati, Cincinnati, OH, USA

Martine Solages Child Study Center, Yale University, New Haven, CT, USA

Marjorie Solomon Department of Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, USA

Richard Solomon Ann Arbor Center for Developmental and Behavioral Pediatrics, Ann Arbor, MI, USA

Youeun Song Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Latha Soorya Department of Psychiatry, Rush University Medical Center, Chicago, IL, USA

Alexander Sorokin Federal Resource Center for Autism, Moscow State University of Psychology and Education, Moscow, Russia

Timothy Soto Clinical Psychology, University of Massachusetts Boston, Boston, MA, USA

Isabelle Soulières Centre d'excellence en troubles envahissants du développement de l'université de Montréal, Hôpital Riviére-des-Prairies, Montréal, QC, Canada

Department of Psychology, Université du Québec à Montréal, Montréal, QC, Canada

Mikle South Departments of Psychology and Neuroscience, Brigham Young University, Provo, UT, USA

César Soutullo Child and Adolescent Psuychiatry Unit, Department of Psychiatry and Medical Psychology, University of Navarra Clinic, Pamplona, Spain

Tristram Smith: deceased.

_

Louise Spear-Swerling Southern Connecticut State University, New Haven, CT, USA

Sarah Spence Department of Neurology, Children's Hospital Boston Harvard Medical School, Boston, MA, USA

Elizabeth Spencer College of Education and Human Ecology, The Ohio State University, Columbus, OH, USA

Trina D. Spencer Rightpath Research and Innovation Center, University of South Florida, Tampa, FL, USA

Institute for Human Development, Northern Arizona University, Flagstaff, AZ, USA

Laurie A. Sperry Department of Psychiatry, School of Medicine, Yale University, New Haven, CT, USA

Ania Spina Southern Connecticut State University, New Haven, CT, USA

Beth Springate Department of Psychology, University of Connecticut, Storrs, CT, USA

Dorrey Sproatt Psychological Studies in Education, University of California, Los Angeles, CA, USA

Melissa A. Sreckovic Education Department, University of Michigan – Flint, Flint, MI, USA

Helaine St. Amant UC Davis Department of Pediatrics, Sacramento, CA, USA

Kate St. Cyr Parkwood Institute Operational Stress Injury Clinic – GTA Services, Toronto, ON, Canada

Margaret St. John Quinnipiac University School of Law, Hamden, CT, USA

Wouter Staal Neuroscience, Radboud University Nijmegen Medical Centre Karakter, Nijmegen, The Netherlands

Aaron Stabel The M.I.N.D. Institute, University of California Davis Medical Center, Sacramento, CA, USA

Lawrence H. Staib Department of Diagnostic Radiology, Yale University School of Medicine, New Haven, CT, USA

Caleb R. Stanley Applied Behavior Analysis Program, Utah Valley University, Orem, UT, USA

Zachary R. Steelman University of Arkansas, Fayetteville, AR, USA

Georges Steffgen Institute for Health and Behavior, University of Luxembourg, Esch-sur-Alzette, Luxembourg

Amanda Steiner Yale Child Study Center, New Haven, CT, USA

Jennifer Stephenson School of Education, Macquarie University, Sydney, NSW, Australia

lxxviii Contributors

Kevin G. Stephenson Department of Psychology, Nationwide Children's Hospital and The Ohio State University, Columbus, OH, USA

Lindsey Sterling Department of Psychiatry, Jane and Terry Semel Institute for Neuroscience and Human Behavior UCLA, Los Angeles, CA, USA

Kyle Sterrett University of California, Los Angeles, Los Angeles, CA, USA

Arianne Stevens Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Bradley Stevenson University of North Carolina Charlotte, Charlotte, NC, USA

Lisa Steward Indiana Behavior Analysis Academy, Kokomo, IN, USA

Mary Elizabeth Stewart Psychology, School of Social Sciences, Heriot-Watt University, Edinburgh, UK

Kimberly Stigler Christian Sarkine Autism Treatment Center, Riley Hospital for Children, Indianapolis, IN, USA

Lavinia Stoicescu Children's Specialized Hospital, Warren, NJ, USA

Mark A. Stokes School of Psychology, Deakin University, Burwood, VIC, Australia

Wendy L. Stone Department of Psychology, UW READi Lab, University of Washington, Seattle, WA, USA

Eric A. Storch Department of Pediatrics and Psychiatry, University of South Florida, St. Petersburg, FL, USA

Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, TX, USA

Michael Storz Chapel Haven, Inc, New Haven, CT, USA

Susan M. Strahosky School of Medicine and Dentistry, University of Rochester, Rochester, NY, USA

Cara G. Streit Threshold Program, Lesley University, Cambridge, MA, USA

Dorothy Stubbe Yale University School of Medicine Child Study Center, New Haven, CT, USA

Denis G. Sukhodolsky Child Study Center, Yale School of Medicine, Yale University, New Haven, CT, USA

Stephen Sulkes Division of Developmental and Behavioral Pediatrics, Golisano Children's Hospital, University of Rochester, Rochester, NY, USA

Simone D. Sun NYU Langone Health, Neuroscience Institute, New York, NY, USA

Connie Sung Department of Counseling, Educational Psychology and Special Education, Michigan State University, East Lansing, MI, USA

Contributors lxxix

Min Sung Department of Developmental Psychiatry, Institute of Mental Health, Singapore, Singapore

Faja Susan Developmental Medicine, Boston Children's Hospital/Harvard Medical School, Boston, MA, USA

Hanna Swaab Social and Behavioural Sciences, Leiden University, Leiden, The Netherlands

Deanna M. Swain Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Virginia Tech Autism Clinic and Center for Autism Research, Blacksburg, VA, USA

Hania Szajewska Department of Paediatrics, The Medical University of Warsaw, Warsaw, Poland

Peter Szatmari Department of Psychiatry and Behavioural Neurosciences, McMaster University Hamilton Health Sciences Corporation, Hamilton, ON, Canada

Nathalie Szilagyi Yale Child Study Center, New Haven, CT, USA

Christen Szymanski Department of Pediatrics (SMD), University of Rochester, School of Medicine and Dentistry, Rochester, NY, USA

Nicole Takahashi Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, USA

Yoshihiro Takeuchi Division of Developmental and Behavioral Pediatrics, Department of Pediatrics, Shiga University of Medical Science, Otsu, Shiga, Japan

Celia Tam Yale Child Study Center, New Haven, CT, USA

Leanne Tamm Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine, Cincinnati, OH, USA

James W. Tanaka Centre for Autism Research, Technology and Education, Department of Psychology, Victoria, Canada

Karen Tang Department of Psychology, University of Notre Dame, Notre Dame, IN, USA

Center for Autism and the Developing Brain, Weill Cornell Medicine, White Plains, NY, USA

Digby Tantam School of Health and Related Research, University of Sheffield, Sheffield, UK

Pamela Targett Virginia Commonwealth University, Richmond, VA, USA

Gennaro Tartarisco Institute for Biomedical Research and Innovation (IRIB), National Research Council of Italy (CNR), Messina, Italy

Marc J. Tassé Nisonger Center – UCEDD, Departments of Psychology and Psychiatry, The Ohio State University, Columbus, OH, USA

lxxx Contributors

Marc B. Taub Southern College of Optometry, Memphis, TN, USA

Mitchell Taubman Actum Clinical and Behavioral Services, Calabasas, CA, USA

Johanna Patricia Taylor Pediatrics and Education, University of Pittsburgh, Pittsburgh, PA, USA

Julie Lounds Taylor Department of Pediatrics, Vanderbilt Kennedy Center, Vanderbilt University, Nashville, TN, USA

Margot J. Taylor Department of Diagnostic Imaging, Neuroscience and Mental Health Programme, The Hospital for the Sick Children Research Institute, Toronto, ON, Canada

Department of Medical Imaging, Department of Psychology, University of Toronto, Toronto, ON, Canada

Elizabeth Allen Technical Test Development, PRO-ED, Inc, Austin, TX, USA

Elizabeth J. Teh Department of Otolaryngology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore

Ito Tetsuya Department of Neonatology and Pediatrics, Graduate School of Medical Sciences, Nagoya City University, Aichi, Japan

Linda Thibodeau Callier Advanced Hearing Research Center, Dallas, TX, USA

Kathy Thiemann-Bourque Schiefelbusch Institute for Life Span Studies Juniper Gardens Children's Project, University of Kansas, Lawrence, KS, USA

Benjamin R. Thomas Claremont Graduate University, Claremont, CA, USA

Brynn Thomas The Neurodevelopmental Disabilities Laboratory, Laboratory for Understanding Neurodevelopment (FUN Lab), Northwestern, and the University of Notre Dame, Chicago, IL, USA

John W. Thomas Independent Educational Consultant, Durham, NC, USA Quinnipiac University School of Law, Hamden, CT, USA

Kenneth Thomas Quinnipiac University School of Medicine, Hamden, CT, USA

Yale School of Medicine, New Haven, CT, USA

John Thorne Department of Speech and Hearing Sciences, University of Washington Fetal Alcohol Syndrome Diagnostic and Prevention Network, Seattle, WA, USA

Audrey Thurm Neurodevelopmental and Behavioral Phenotyping Service, Intramural Research Program, National Institute of Mental Health, National Institutes of Health, Bethesda, MD, USA

Elaine Tierney Department of Psychiatry, Kennedy Krieger Institute, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Geralyn Timler Speech Pathology and Audiology, Miami University, Oxford, OH, USA

Iris Charlotte Tjaarda University of Applied Sciences Leiden, Leiden, Zuid-Holland, The Netherlands

James T. Todd Psychology Department, College of Arts and Sciences, Eastern Michigan University, Ypsilanti, MI, USA

Mariana Torres-Viso The Center for Children with Special Needs, Glastonbury, CT, USA

Karen Toth Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Jeanne Townsend Department of Neurosciences, University of California, San Diego, La Jolla, CA, USA

Joshua Trachtenberg David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

Vladimir Trajkovski Macedonian Scientific Society for Autism, Institute of Special Education and Rehabilitation, Faculty of Philosophy, Ss. Cyril and Methodius University, Skopje, Republic of Macedonia

Frank Tran St. Joseph's Healthcare, Hamilton, ON, Canada

Darold A. Treffert St. Agnes Hospital, Fond du Lac, WI, USA

Eva Troyb Neuropsychology, EASTCONN Regional Education Service Center, Columbia, CT, USA

Katherine Tsatsanis Yale Child Study Center, New Haven, CT, USA

Richard W. Tsien NYU Langone Health, Neuroscience Institute, New York, NY, USA

Roberto Tuchman Department of Neurology, Miami Children's Hospital, Weston, FL, USA

Tychele N. Turner University of Washington, Seattle, WA, USA

Katherine Tyson Chapel Hill Pediatric Psychology, P.A., Chapel Hill, NC, USA

Mirko Uljarević Melbourne School of Psychological Sciences, Faculty of Medicine, Dentistry, and Health Sciences, The University of Melbourne, Melbourne, VIC, Australia

Pamela Ullmann Colors of Play, Oakland, NJ, USA

David Vagni Institute for Biomedical Research and Innovation (IRIB), National Research Council of Italy (CNR), Messina, Italy

Joanne Valdespino Test Development, PRO-ED, Inc., Austin, TX, USA

lxxxii Contributors

Valentina Valentovich Department of Psychological Science, University of California, Irvine, Irvine, CA, USA

Karen S. van der Aalst Department of Child and Adolescent Psychiatry/ Psychology, Erasmus Medical Center-Sophia Children's Hospital, Rotterdam, The Netherlands

Jan Rutger Van der Gaag Department of Psychiatry and Karakter University Center for Child and Adolescent Psychiatry, Radboud University Medical Centre, Utrecht, Netherlands

Stradina University of Riga, Riga, Latvia

Marilyn Van Dyke Psychological Studies, UCLA's Graduate School of Education and Information Systems, University of California, Los Angeles, Los Angeles, CA, USA

Annemarie van Elburg Child and Adolescent Psychiatry, Rintveld Center for Eating Disorders, Altrecht Mental Health Institute, University Medical Center Utrecht, Utrecht, The Netherlands

Nissa Van Etten Cultivate Behavioral Health and Education, Bee Cave, TX, USA

Ruth Van Hecke Department of Rehabilitation Sciences, Ghent University, Ghent, Belgium

Megan Van Ness Department of Psychology, University of Notre Dame, Notre Dame, IN, USA

Gerrit Ian van Schalkwyk Department of Psychiatry, Yale School of Medicine, Yale Child Study Center, Yale University, New Haven, CT, USA Butler Hospital, Brown University, Providence, RI, USA

Guus van Voorst Clinical Psychology, Center for Autistic Disorders, GGZ Centraal, Amersfoort, Netherlands

Ernst O. VanBergeijk Vocational Independence Program, New York Institute of Technology, Central Islip, NY, USA

Threshold Program, Lesley University, Cambridge, MA, USA

Brent Vander Wyk Yale Child Study Center, Center for Translational Developmental Neuroscience, New Haven, CT, USA

Douglas Vanderbilt Developmental-Behavioral Pediatrics, Children's Hospital Los Angeles/USC, Los Angeles, CA, USA

Tricia Vause Department of Child and Youth Studies and Department of Applied Disability Studies, Brock University, St. Catharines, ON, Canada

Pamela E. Ventola Yale Child Study Center, School of Medicine, Yale University, New Haven, CT, USA

Patrizia Ventura Child Neuropsychiatry Unit, University of Bari "Aldo Moro", Bari, Italy

Ty W. Vernon Yale Child Study Center, New Haven, CT, USA

Koegel Autism Center/Department of Counseling, Clinical, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, USA

Michaela Viktorinova Yale Child Study Center Temple Medical Center, New Haven, CT, USA

Michele Villalobos The Edward Zigler Center in Child Development and Social Policy, Yale Child Study Center, New Haven, CT, USA

Micaela Violette Yale Child Study Center, New Haven, CT, USA

Benedetto Vitiello Child and Adolescent Treatment and Preventive Intervention Research Branch, NIMH, NIH, Bethesda, MD, USA

Donata Pagetti Vivanti European Disability Forum, Brussels, Belgium

Giacomo Vivanti A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, USA

David H. V. Vogel Institute of Neuroscience and Medicine (INM3), Research Center Jülich, Jülich, Germany

Faculty of Medicine and University Hospital Cologne, Department of Psychiatry, University of Cologne, Cologne, Germany

Kai Vogeley Institute of Neuroscience and Medicine (INM3), Research Center Jülich, Jülich, Germany

Faculty of Medicine and University Hospital Cologne, Department of Psychiatry, University of Cologne, Cologne, Germany

Dawn Vogler-Elias Communication Sciences and Disorders, Nazareth College, Rochester, NY, USA

Fred R. Volkmar Child Study Center, Irving B. Harris Professor of Child Psychiatry, Pediatrics and Psychology, Yale Child Study Center, School of Medicine, Yale University, New Haven, CT, USA

Lucy Volkmar Achievement First East New York Elementary School, Brooklyn, NY, USA

Avery Voos Yale Child Study Center, New Haven, CT, USA

Kayla Wagner SUNY Upstate Medical University, Syracuse, NY, USA

Allison Wainer Department of Psychiatry, Rush Medical College, Chicago, IL, USA

Krysia Emily Waldock Tizard Centre, University of Kent, Canterbury, UK

Michael F. Walker Child Study Center, Yale University School of Medicine, New Haven, CT, USA

Gregory L. Wallace Psychiatry and Behavioral Sciences and Pediatrics, School of Medicine and Health Sciences, The George Washington University, Washington, DC, USA

Katherine S. Wallace Department of Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, USA

lxxxiv Contributors

Margaret Walsh May Institute, Randolph, MA, USA

Pat Walsh Centre of Medical Law and Ethics, Dickson Poon School of Law, Somerset House East Wing, Kings College London, London, UK

Katherine Walton Department of Psychology, Michigan State University, East Lansing, MI, USA

Kai Wang Department of Psychiatry and Department of Preventive Medicine, The Zilkha Neurogenetic Institute, Keck School of Medicine, University of Southern California, Los Angeles, CA, USA

Xiaobin Wang Center on Early Life Origins of Disease, Department of Population, Family and Reproductive Health, Division of General Pediatrics & Adolescent Medicine, Department of Pediatrics, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, USA

Tracey Ward Simons Autism Family Collaboration, University of Washington Autism Research Center, Seattle, WA, USA

Felix Warneken Department of Psychology, Harvard University, Cambridge, MA, USA

Zachary Warren Vanderbilt Kennedy Center, Treatment and Research Institute for Autism Spectrum Disorders (TRIAD), Nashville, TN, USA

Renee Watling Division of Occupational Therapy, Department of Rehabilitation Medicine, University of Washington, Seattle, WA, USA

Linda R. Watson The University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Sara Jane Webb Psychiatry and Behavioral Sciences and UW Autism, Seattle Children's Research Institute, University of Washington, Seattle, WA, USA

Paul Wehman Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University, Richmond, VA, USA

Deborah Weiss Department of Communication Disorders, Southern Connecticut State University, New Haven, CT, USA

Jonathan A. Weiss Department of Psychology, York University, Toronto, ON, Canada

Mary Jane Weiss Institute for Behavioral Studies, Endicott College, Beverly, MA, USA

Therese R. Welch School of Medicine and Dentistry, University of Rochester Medical Center, Rochester, NY, USA

Aurelie Welterlin Chapel Hill TEACCH Center, Carrboro, NC, USA

Julia Wenegrat Psychiatry, University of Washington, CHDD, Seattle, WA, USA

Alexander Westphal Division of Law and Psychiatry, Yale Child Study Center, Yale School of Medicine, New Haven, CT, USA

Susan W. White Department of Psychology, University of Alabama, Tuscaloosa, AL, USA

Psychology Department, Virginia Tech, Blacksburg, VA, USA

Andrew Whitehouse Telethon Kids Institute, University of Western Australia, Nedlands, WA, Australia

Research Section (Psychology), University of Western Australia, Crawley, WA, Australia

Siena Whitham Psychological Studies in Education, University of California, Los Angeles, Los Angeles, CA, USA

Jennifer Wick Community Consultation Program, Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester School of Medicine and Dentistry, Rochester, NY, USA

Andrea Trubanova Wieckowski Psychology Department, Virginia Tech, Blacksburg, VA, USA

Serena Wieder Profectum Foundation, Mendham, NJ, USA

Lisa Wiesner Pediatric and Adolescent Medicine, Orange, CT, USA

Kristin Wier Department of Psychology, University of Notre Dame, Notre Dame, IN, USA

LOGAN Autism Learning Center - Southwest Michigan, Benton Harbor, MI, USA

Jan R. Wiersema Ghent University, Ghent, Belgium

Katrina Williams Developmental Medicine, University of Melbourne, The Royal Children's Hospital and Murdoch Childrens Research Institute, Parkville, VIC, Australia

Zachary J. Williams Medical Scientist Training Program, Vanderbilt University School of Medicine, Nashville, TN, USA

Yale Child Study Center, New Haven, CT, USA

Meagan C. Wills Yale Child Study Center, New Haven, CT, USA

A. Jeremy Willsey Department of Psychiatry, UCSF Weill Institute for Neurosciences, University of California, San Francisco, San Francisco, CA, USA

Dawn Wimpory School of Psychology, University of Wales Bangor, Gwynedd, UK

Gayle C. Windham Division of Environmental and Occupational Disease Control, CA Department of Public Health, Richmond, CA, USA

Lorna Wing Centre for Social and Communication Disorders, Bromley, Kent, UK

lxxxvi Contributors

Logan Wink Department of Psychiatry, University of Cincinnati School of Medicine, Cincinnati, OH, USA

Department of Psychiatry, Indiana University School of Medicine, Indianapolis, IN, USA

Vincent Winterling Delaware Autism Program, Newark, DE, USA

Julie M. Wolf Yale Child Study Center, New Haven, CT, USA

Connie Wong FPG Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Jeffrey J. Wood Departments of Psychiatry and Education, UCLA/Geffen School of Medicine, UCLA Center for Autism Research and Treatment, University of California, Los Angeles, CA, USA

Marc Woodbury-Smith Department of Psychiatry and Behavioural Neuroscience, McMaster University, Hamilton, ON, Canada

Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, UK

Douglas W. Woods Department of Psychology, University of Wisconsin-Milwaukee, Milwaukee, WI, USA

Richard Woods Independent Scholar, Nottingham, UK

Julie Worley Department of Psychology, Louisiana State University, Baton Rouge, LA, USA

John Wright School of Social and Behavioral Sciences, Marist College, Poughkeepsie, NY, USA

Brent Vander Wyk Yale Child study Center, New Haven, CT, USA

Maya Yaari Department of Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel

Ayako Yaguchi Department of Disabilities of Brain Functions, Research Institute of National Rehabilitation Center for Persons with Disabilities, Tokorozawa/Saitama, Japan

Department of Contemporary Psychology, Rikkyo University, Niiza/Saitama, Japan

Japan Society for the Promotion of Science, Chiyoda/Tokyo, Japan

Brett Yamane Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA

Yanki Yazgan Faculty of Medicine (ret), Marmara University, Istanbul, Turkey

Yale Child Study Center (adjunct), New Haven, CT, USA

Benjamin E. Yerys Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, USA

Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Nurit Yirmiya Department of Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel

Robyn L. Young Flinders University, Adelaide, SA, Australia

Lu Yu Department of Applied Social Sciences, The Hong Kong Polytechnic University, Hung Hom, Hong Kong

Chengan Yuan Division of Educational Leadership and Innovation, Mary Lou Fulton Teachers College, Arizona State University, Tempe, AZ, USA

Eunice Yuen Yale Child Study Center, New Haven, CT, USA

Nicola Yuill Children and Technology Lab, School of Psychology, University of Sussex, Brighton, UK

Brian A. Zaboski School of Special Education, School Psychology, and Early Childhood Studies, University of Florida, Gainesville, FL, USA

Ditza A. Zachor The Autism Center/Alut, Department of Pediatrics, Shamir (Assaf Harofeh) Medical Center, Sackler Faculty of Medicine, Tel Aviv University, Zerifin, Israel

Asmaa M. Zahran Clinical Pathology Department, South Egypt Cancer Institute, Assiut University, Assiut, Egypt

Casey Zampella Department of Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, USA

Thomas Zane Van Loan School of Graduate and Professional Studies, Endicott College, The Institute for Behavioral Studies, Beverly, MA, USA

Department of Applied Behavior Science, University of Kansas, Lawrence, KS, USA

Charles H. Zeanah Department of Neurology and the Department of Psychiatry and Behavioral Sciences, School of Medicine, Tulane University, New Orleans, LA, USA

Shoshana Zhang Yale University, New Haven, CT, USA

Sonja Ziegler Marcus Autism Center, Emory University, Atlanta, GA, USA

Cynthia Zierhut Department of Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, USA

Cristofer Zillo Yale Child Study Center, New Haven, CT, USA

Kimberly Zlomke Combined-Integrated Clinical and Counseling Psychology Doctoral Program, University of South Alabama, Mobile, AL, USA

Caren Zucker New Jersey, USA

Lonnie Zwaigenbaum Department of Pediatrics, University of Alberta, Autism Research Centre, Glenrose Rehabilitation Hospital, Edmonton, AB, Canada