Department of Neurology 50th Anniversary

Department Updates

Robert Holloway, September 23, 2016

Department of Neurology

• Our First 50 Years

• Our Department Today

• Our Alumni
Dedication

Maurice Charlton, MD  
Richard Satran, MD  
David Marsh, MD  
Fred Horner, MD  
Josh Hollander, MD

Steve Schwid, MD  
Craig Applegate, PhD  
James Garbern, MD, PhD  
David Goldblatt, MD

A Department Steeped in Tradition

Paul H. Garvey, MD  
1936 - 1963

Wilbur K. Smith, MD  
(1905 – 1986)
In 50 brief years.....

July 1, 1966

Robert Joynt, MD, PhD
1966-1984

Robert Griggs, MD
1986-2008

Steve Goldman, MD, PhD
2008-2012

Three Giants
Establishing the Foundation
The Quarter Century Club

Nancy Baldwin  Adele Cook  Gary Myers  Steven Erickson
Robert Griggs  Shree Pandya  Linda Richardson  John Langfitt
Elmar Frangenberg  Barbara Herr  Curt Benesch  Shree Pandya
Gerald Honch  Carol Zimmerman  Andrew Goodman  Kathy England
Richard Moxley  William Vaughn  Lisa Rumfola  Nancy Merriman
David Wang  Eileen Johnson  Charles Thornton  Patricia Rogers
Cynthia Irish  Lisa Oppelt  William Page  Jeanette Griebel
Joseph Mann  Ciara Vigelette  Gary Myers  
Roseanna Battista  Deborah Baker  Cornelia Kamp  
Kirti Bhatt  Cynthia Casaceli  Robert Holloway  
Ralph Jozefowicz  Mike Berg  Irene Richard  
Elisabeth De Blieck  Karl Kieburzt  

Angels of Administration

Mary Croucher  Pat Hopkins  Nancy Merriman  Shirley Thomas
Ruth Nobel  Nancy Baldwin  Terri McDonald  Clara Vigelette
Donna LaDonna  Adele Cook  Deb Baker  

Joynt Era: Clinical and Education


Patient-Centered, Humanistic Care

Joynt Era: Research

Huntington’s Disease: Treatment with Muscimol, a GABA-Mimetic Drug

Ira Shulman, M.D., David Goldstein, M.D., Maurice Charlon, M.D., and Robert J. Joyce, M.D.

Muscimol, a -aminobutyric acid (GABA) analogue that exerts potent and specific agonist effects on GABA receptors, was administered orally to 8 patients with Huntington’s disease. In this double-blind study, muscular movements did not result in improvement in these patients’ motor or cognitive functions. However, muscular administration did result in clonus in the most severely hypokinetic patients, and it was associated with the appearance of dystonic features, electrophysiological changes, and behavioral alterations in some patients. These findings suggest that muscimol may be a potential therapeutic agent in the treatment of Huntington’s disease. Further studies are needed to determine the efficacy and safety of muscimol in this disorder.


Decreased Insulin Sensitivity of Forearm Muscle in Myotonic Dystrophy

Richard T. Mosley, III, Robert C. Griggs, and David Goldblatt with the technical assistance of Vincent VanGelder, Barbara Evelyn Herr, and Robert Threl, Departments of Neurology, Medicine, Pathology, and Pediatrics, University of Rochester School of Medicine and Dentistry, Rochester, New York 14642
Joynt Era: Research

Clinical Trials
Academic Study Group

Early Translational Neuroscience


Three Giants

Robert Joynt, MD, PhD
1966-1984

Robert Griggs, MD
1986-2008

Steve Goldman, MD, PhD
2008-2012
GRIGGS RECRUITMENT

Griggs: Milestones

Clinical Trials Coordination Center (CTCC) → Center for Neural Development and Disease (CNDD) → Center for Translational Neuromedicine (CTN)

- Strong Epilepsy Center
- Stroke Unit
- Highland Hospital
- Ralph Jozefowicz to lead educational programs
- Creating a community-based practice in general neurology
- Subspecialization and fellowship training
- Model and magnet for teaching the clinical neurosciences
- Leader in translational neuroscience and experimental therapeutics

1990 → 2000 → 2010
Three Giants

Robert Joynt, MD, PhD  
1966-1984

Robert Griggs, MD  
1986-2008

Steve Goldman, MD, PhD  
2008-2012

GOALS
1. Radically Change Clinical Practice
2. Strategic Research Growth
3. Targeted Educational Efforts
4. Develop New Leaders
5. Intense Relationship Building
6. Financial Sustainability

University of Rochester  
Department of Neurology  
Strategic Plan, 2014-2018  
“From Vision to Reality”
**RECENT RECRUITMENTS**

- 2012
- 2014
- 2016

10 APPS
150+ Staff

**RECENT ACHIEVEMENTS**

- 2012
  - Overhauled Department’s Administrative Structure
  - Joint Commission Comprehensive Stroke Center

- 2014
  - Neurohospitalist program
  - Expanding regional presence
  - Enabling technologies
    - Global neurology
    - Systems neuroscience
    - Cell and gene-based

- 2016
  - URMC Headache Center
  - 10 Fellowships
    - University priority
  - Renewed T32 Training Program in Experimental Therapeutics
  - DelMonte NeuroMedicine Institute
  - Secure financial platform
  - Global neurology
  - Systems neuroscience
  - Cell and gene-based
The Next Level
(2016-2020)

- Neuroscience & Neuromedicine
- Data Science
- Humanities & the Performing Arts
- Revitalization of our Community

Department of Neurology

- Our First 50 Years
- Our Department Today
- Our Alumni
Department of Neurology

Department Structure

- Division Chiefs
- Associate Chairs
- Senior Leadership Team
  - Promotions and Tenure Committee
  - Financial Advisory Committee
  - Clinical Programs
    - Acute Care Committee
    - Ambulatory Committee
  - Research Programs
    - Neurology Research Committee
  - Education Programs
    - Education Leadership Trainee Committees
Department of Neurology Staff

Emily Adams
Lee Albert
Tashka Allen
Cherrel Anderson
Christine Annis
Isaac Arabadgis
Katherine Anson
Nancy Baldwin
Amanda Barbara
Brian Barrett
Deborah Baron
Kris Bhat
Christine Boerman
Robin Brown
Jessica Brown
Zackary Bruce
Diana Brunner
Lilly Burroughs
Karen Calabro
Roxanne Cannavozo
David Caraballo
Christine Champion
Amy Chesire
Kathleen Clapp
Christina Clay
Dawnita Cocilova
Erin Collins
Noreen Connolly
Nicole Cox
Angela Cruppi
Sandra De Alwis
Jeanne Deklebrun
Kathleen Denman
Mary Ellen DiCarlo
Nuran Dilek
Jocelyn Dixon
Breighan Doll
Brittany Duemmel
Vita Dyakiv
Eileen Eastwood
Katy Eichinger
Kara El Gohary
Kathryn Erickson
Steven Erickson
Sheryl Estes
Michele Ferguson
Allison Fess
Barbara Fink
Karleen Fischer
Tracy Forrester
Sarah Gannon
Nayeli Garcia
Catherine Gleed
Stephanie Gregory
Jeanette Griebel
Nicole Guerrero
Kimberly Hart
Ramona Heisig
Don Henderson
James Hilbert
Jamie Harvey
Christina Holloway
Marcia Howe
Maria Sherie Inuzuka
Julia Iourinets
Cynthia Irish
Tracy Kenney
Kathleen Knab
Tracy Kraft
Joseph Kriel
Syndee Kroge
Rebecca LaDere
Julie Lanning
Karen Lee
Sarah Leisman
Courtney L'Esperance
Charles Levin
Leann Lewis
Jillian Lowell
Sara Ludwig
Elizabeth Luebbe
Azita Manuele
Steven Marciano
Pam Marks
Shareen Manquez
Lisa Martinez
Elisabeth McClung
Jessica McDermott
Cary McIver
Alicia Melia
Christy Miller
Kristina Moss
Lanibel Notasco
Lisa Oppelt
Alanna Orr
Ashley Owens
Umit Ozturkoglu
Andrea Paully-Brown
Kathleen Peets
Christopher Penepent
Cassandra Porter
Elizabeth Pykkkonen
Lorene Powell
Magda Ramzy
Linda Richardson
Scott Rosenberg
Dan Rossca
Sarah Rounds
Zolia Salgado
Shazeeza Salim
Melissa Scherett
Eileen Scheid
Bharati Shah
Lanisha Shih
Diane Smith
Patricia Smith
Janet Sowden
Tanya Srbinovski
Lindsay Stacy
Teresa Steffenella
Amanda Stogman
Lisa Stephenson
Nicole Strat
Karen Sukert
Ashley Sweet
Matthew Taber
William Tennant
Angela Tevelis
Alysaa Thatcher
Guo Feng Tian
Jenny Timneri
Sara Ushcoh
William Vaughn
Angela Vick
Ciara Vigelette

Department Structure

Division Chiefs

Associate Chairs

Senior Leadership Team

Promotions and Tenure Committee

Financial Advisory Committee

Clinical Programs

Research Programs

Education Programs

Acute Care Committee

Ambulatory Committee

Neurology Research Committee

Education Leadership Trainee Committees
Department Structure

- Division Chiefs
- Associate Chairs
- Senior Leadership Team

Sub-committees:
- Promotions and Tenure Committee
- Financial Advisory Committee
- Clinical Programs
- Research Programs
- Education Programs

- Acute Care Committee
- Ambulatory Committee
- Neurology Research Committee
- Education Leadership Trainee Committees
Clinical Care Programs

- Myotonic Dystrophy Type 2 Center of Excellence
- Neurofibromatosis Clinic Network
- Remote Assessments
- LP Clinic
- UR Rochester Ataxia Clinic
- Infusion Center
- UR HDSA Center of Excellence
- Batten Disease Center of Excellence
- Ketogenic Diet Program

Advanced Practice Providers

Kathy England Patricia Rogers
Julie Socha Deb Guntrum
Cindy Gibson Ann Ford Fricke
Dawn Martin Ann Leonhardt
Audrey Rice Jocelyn Doehler
Anne Leitten Valerie Davis
Aida Santiago Lisa Augustini
Jennifer Richard Rachael Skeldon
Amy Vierhile Pamela Clark
Elaine Philipson Cindy tenHoopen
Carolyn Dickinson Jennifer Serventi PA
George Heeks PA Christopher Montanaro PA
Katie Zelazny PA Erin Muthig PA
Lindsay Marchetti PA
Neurology Research Committee

Marc Halterman
Heather Adams
Kevin Biglan
Chris Annis
Erika Augustine
Sara Uschold
Eileen Scheid

Research Coordinators

Christine Annis
Christine Boerman
Amy Chesire
Noreen Connolly
Jeannie DeDebrun
Paul DeRitis
Debra Guntrum
Kimberly Hart
James Hilbert
Julia Iourinets
Cynthia Irish
Ann Leonhardt
Elizabeth Luebbe
Dawn Martin
Joan Mountain
Leslie Neubeck
Ashley Owens
Eileen Scheid
Jennifer Serventi
Diane Smith
Patricia Smith
Julie Socha
Janet Sowden
Teresa Steffenella
Alyssa Thatcher
Amy Vierhile
Carol Zimmerman
Grace Zimmerman
Jennifer Richards
Grant Funding

Sample of Grants, FY 2016

- **Safra Foundation:** Transforming Care for Individuals with Parkinson’s Disease
- **MDA:** Myotonic Clinical Research Network
- **Univ of Iowa:** The Inherited Neuropathy Consortium (INC) RDCRC-Overall
- **Genzyme:** Rare Disease Registry Program
- **DOD:** Need name of grant from Sara
- **GRHF:** Regional Multi-Disciplinary Telemedicine Care Network for PD
- **Sage Therapeutics:** A Randomized, DB, PC Study to Evaluate the E&S of SAGE-547 Injection in the Treatment of Subjects with Refractory Status Epilepticus
- **GW Pharmaceuticals:** A Phase 1, Observational Study of Cannabidiol as Treatment for Drug Resistant Epilepsies
- **IRSF:** Rett Syndrome, MECP2 Duplications, and Rett-Related Disorders Natural History
- **CHASE:** Global Brain and Nervous System Disorders Research

5 NeuroNEXT Studies

CTSI Renewal
Department Structure

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- Senior Leadership Team

- Promotions and Tenure Committee
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- Clinical Programs
  - Acute Care Committee
  - Ambulatory Committee

- Research Programs
  - Neurology Research Committee

- Education Programs
  - Education Leadership Trainee Committees

Our Fearless Leader
Education Leadership

Adult Neurology
- Ralph Jozefowicz, Director
- Adam Kelly, Associate Director

Child Neurology
- Rob Stone, Director
- Jonathan Mink, Associate Director

Neuroimmunology
- Andrew Goodman, Director

Movement Disorders
- Irene Richard, Director

Epilepsy
- Lynn Liu, Program Director

Clinical Neurophysiology
- Eric Logigian, Program Director
- Lynn Liu, Co-Director

Neurooncology
- Nimish Mohile, Director

Neuromuscular Medicine
- Emma Ciafaloni, Director

Memory Care
- Fred Marshall, Director

Vascular Neurology
- Bogachan Sahin, Program Director

Experimental Therapeutics
- Robert Griggs, Director
- Erika Augustine, Program Director

Department of Neurology

- Our First 50 Years
- Our Department Today
- Our Alumni
Adult and Child Residents

- Donald Castle
- Marvin Goldstein
- Richard Nordgren
- Alexander Reeves
- Patrick O’Sullivan
- Daniel Pettee
- Adolph Westall (fellow)
- Agneta Borgstad
- Colin Allen
- Armando Filomeno
- Kazuhiko Futada
- Arthur Smith
- Harb Broury
- Ghasan Khayyat
- Patrick O’Sullivan
- Albert Gunn
- Patrick O’Sullivan
- Alexander Reeves
- Richard Nordgren
- Marvin Goldstein*
- Donald Castle*

Adult and Child Alumni

- Nirupama Laroia
- Catherine Rahilly
- Caryn Courtright
- Steve Schwid
- Donald Higgins
- Kim Trinidad
- Andrew Feigin
- Curt Benesch
- Ziad Rifai
- Charles Thornton
- Charles Thornton
- Christopher Hyson
- Thomas Venuto
- Matt Bellizzi
- Jeffrey Statland
- Nick Johnson
- Erika Augustine
- Michael Nugo
- Chelsea Pollitt
- Jessica Robb
- Abeer Abu-Zeitoun
- Kelly Andrzejewski

Experimental Therapeutics Alumni

- Karl Kieburtz
- Theresa Dimitropoulos
- Christopher O’Brien
- John Kolassa
- Ziad Rifai
- Curt Benesch
- Andrew Feigin
- Kim Trinidad
- Joanne Wojcieszek
- Fred Marshall
- Donald Higgins
- Steve Schiwch
- Caryn Courtwright
- Catherine Rahilly
- David Finkelstein
- Nirupama Laroia
- Antonelle deMacaira
- Jeffrey Campbell
- Allen Lifton
- Elizabeth St. James
- Irene Richard
- Andrew Siderowf
- Giovanni Schifitto
- Karen Blindauer
- Joshua Kantrowitz
- Rebecca Meyerson
- Nehru Sehgal
- David Song
- Penelope Hogarth
- Lin Zhang
- Michael Rose
- Michelle Papka
- David Marcus
- Tom Guttuso
- Mark Mapstone
- Kevin Biglan
- Kwame Akowuah
- Garrett Riggs
- Sam Frank
- Louis Profenno
- Miriam Weber
- Richard Lango
- Joel May
- Jill Miller
- David Gill
- Marc Halterman
- Ray Dorsey
- Chad Heatwole
- David Shprecher
- Lehar Mehta
- Tiffini Voss
- Christopher Hyson
- Erika Augustine
- Adam Kelly
- Andrew McGarry
- Ryan Evans
- Charles Venuto
- Matt Bellizzi
- Jeffrey Statland
- Yi Zhang
- Nick Johnson
- Annie Killoran
- Erika Wexler
- Rachel Biemiller
- Jessica Robb
- Abeer Abu-Zeitoun
- Kelly Andrzejewski
Faculty Alumni

William Markesbery
Gaetano Molinari
Peter Cobus
Mark Ortlee
John Feibel
Jerid Fisher
Robert Herndon
Ken Plotkin
Margaret McBride
Warren Porter
Maryann Romagnano
David Summers

Timothy Greenamyre
Sarah Roddy
Jane Gilmore
Maria Toczek
Michael McQuillen
Jai Shin Lou
Donna Palumbo
David Mattson
Leon Epstein
Robert Hamill
Roderick Spears
Howard Federoff

Judith Hinchey
Tim Counihan
Carlos Torres
Benjamin Segal
Deborah Freidman
Bernard Ravina
Lisa Oestrich
Denise Figlewicz
Craig Hyser
Mark Mapstone
John Schmidt
Alumni Impact

1970s  1980s  1990s  2000s  2010+

[Images of alumni photos for each decade]
Inter-Generational Relationships

1970s
1980s
1990s
2000s +

Our Journey Continues…..Meliora!
January 15, 1966

Dear Dr. Joynt:

I am delighted to inform you that on the unanimous and enthusiastic recommendation of the Advisory Board of the School of Medicine and Dentistry, President Wallis has authorized me to offer you the position of Professor of Neurology and Chairman of the Department of Neurology effective July 1, 1966.

In keeping with our customary procedure, this appointment is subject to confirmation by the Board of Trustees. The next meeting of the Board will occur in early February. I am certain that there will be no question about the Board’s approval. However, the appointment cannot be official until a general public announcement can be made until the Board acts.

The position being offered you carries an annual salary of $20,500. You would be entitled to Plan 6 of the Faculty Compensation Plan described in the enclosed pamphlet. In keeping with the terms of this Plan, you would be allowed to retain two years from private practice to a total of $2,500 per year. For the first two years that you are here we shall guarantee this additional income of $2,500 per year. Under this arrangement, if your gross receipts from private practice in either or both of these years fall short of $2,500, we shall make up the difference at the end of each 12-month period.

You would have unlimited tenure as described in the enclosed brochure, "Regulations Concerning Appointment, Promotion, Tenure, Retirement, and Leave of Absence."

All members of the faculty participate in the University’s benefit program which consists of:
### NIH Funding, 2015

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name</th>
<th>Neurology</th>
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<tbody>
<tr>
<td>1</td>
<td>UNIVERSITY OF CALIFORNIA, SAN FRANCISCO</td>
<td>$52,097,923</td>
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<td>2</td>
<td>WASHINGTON UNIVERSITY</td>
<td>$26,748,134</td>
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<td>3</td>
<td>COLUMBIA UNIVERSITY HEALTH SCIENCES</td>
<td>$24,463,781</td>
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<td>4</td>
<td>JOHNS HOPKINS UNIVERSITY</td>
<td>$24,463,781</td>
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<td>5</td>
<td>STANFORD UNIVERSITY</td>
<td>$19,365,819</td>
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<tr>
<td>6</td>
<td>NORTHWESTERN UNIVERSITY</td>
<td>$18,233,999</td>
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<td>7</td>
<td>UNIVERSITY OF CALIFORNIA LOS ANGELES</td>
<td>$18,052,840</td>
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<td>8</td>
<td>EMORY UNIVERSITY</td>
<td>$14,985,252</td>
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<td>9</td>
<td>UNIVERSITY OF ROCHESTER</td>
<td>$14,482,807</td>
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</tbody>
</table>

Blue Ridge Institute for Medical Research

### Distribution by Type of Research

- **T1**: Translate to humans
  - 10 Basic Science
  - 21 Patient-Oriented Translational Research
  - 58 Patient-Oriented Experimental Therapeutics
- **T2**: Translate to patients
  - 13 Population-Based Research
- **T3**: Translate to populations
  - 5 Health Services and Outcomes Research
Most things will change….

…………..but some things will not change

A Department of Character