

CURRICULUM VITAE
Stephan Peter Pirnie, MD, PhD
Physical Medicine and Rehabilitation

EDUCATION

- 2003-2007 B.S. in Biology: Molecular, Cellular and Development
 Summa Cum Laude, Honors Thesis Completed
 University of New Hampshire
 Durham, NH
- 2009-2017 Ph.D. in Biomedical Sciences
 Concentration in Genetics and Developmental Biology
 M.D.
 University of Connecticut School of Medicine
 Farmington, CT

POSTGRADUATE TRAINING

- 2017-2018 Internal Medicine Residency Program: Internship
 University of Massachusetts Medical School
 Worcester, MA
- 2018-2021 Physical Medicine & Rehabilitation Residency Program
 University of Michigan Medical School/Michigan Medicine
 Ann Arbor, MI

POSTGRADUATE HONORS AND AWARDS

- June 2021 *Theodore Cole Resident Clinician Award*
 University of Michigan PM&R Residency Program
- July 2019 *"Making the Difference" Award for Patient Care*
 Michigan Medicine
- June 2007 *Charles James Research Award*
 University of New Hampshire Chapter of Alpha Chi Sigma
- May 2006 *Vice Presidents Award of Excellence in Research*
 University of New Hampshire Undergraduate Research Conference
- May 2006 *Professional Development Award*
 University of New Hampshire Undergraduate Research Conference

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

- 04/13/2023- Present American Board of Electrodiagnostic Medicine Certification #4383
- 07/01/2022-Present American Board of Physical Medicine and Rehabilitation Cert. #14539
- 03/17/2021-present Rhode Island Medical License MD # 17534
- 03/17/2021-present Rhode Island Controlled Substance Registration # CMD17534

04/20/2021-present	Federal DEA Controlled Substance License (License # withheld)
06/01/2018	Michigan Medical Training Limited License # 4351029533 (inactive)
05/25/2017	Massachusetts Medical Training License # 27233 (inactive)

ACADEMIC APPOINTMENTS

2021-2022	Assistant Professor, Clinician Educator Department of Neurosurgery The Warren Alpert Medical School of Brown University Providence, RI
2022-present	Assistant Professor, Clinician Educator Department of Neurology The Warren Alpert Medical School of Brown University Providence, RI

HOSPITAL APPOINTMENTS

7/1/2025-Present	Physiatrist VA Medical Center Providence Providence, RI
8/1/2021-9/13/2025	Staff Physiatrist Brown University Health Newport Hospital, Newport RI The Miriam Hospital, Providence RI Rhode Island Hospital, Providence RI
7/1/2018-6/30/2021	Resident Physician, PM&R Michigan Medicine, Ann Arbor MI Ann Arbor VA, Ann Arbor MI St. Joseph's Mercy Hospital, Ann Arbor MI
7/1/2017-6/30/2018	Resident Physician-Internal Medicine Intern UMass Memorial Hospital

HOSPITAL COMMITTEES

12/2023-9/2025	Newport Hospital Medical Executive Committee At-Large Member
2023	Center for Accreditation of Rehabilitation Facilities (CARF) Reaccreditation Committee Newport Hospital/Vanderbilt Rehabilitation Center
2021	Epic's Rehab Module Implementation Team Newport Hospital/Vanderbilt Rehabilitation Center

UNIVERSITY COMMITTEES

2019-2021	Research Co-Lead Physical Medicine & Rehabilitation Residency University of Michigan Medical School
2018-2021	Brain Injury Education Resident Representative

	Physical Medicine & Rehabilitation Residency University of Michigan Medical School
2018-2021	Podcast Committee Physical Medicine & Rehabilitation Residency University of Michigan Medical School

MEMBERSHIP IN SOCIETIES

2023-present	Neurodegeneration with Brain Iron Accumulation Disorders Association (NBIADA) - Clinical and Research Development Committee
2020-present	American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM) - Neuromuscular/Musculoskeletal Self-Assessment Exam Committee - AANEM Podcast Subcommittee
2016-present	American Association of Physical Medicine and Rehabilitation (AAPM&R)

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Zhu Y, **Pirnie SP**, Carmichael GG. High-throughput and site-specific identification of 2'-O-methylation sites using ribose oxidation sequencing (RibOxi-seq). RNA. 2017 Aug;23(8):1303-1314.
2. **Pirnie SP**, Osman A, Zhu Y, Carmichael GG. An Ultraconserved Element (UCE) controls homeostatic splicing of ARGLU1 mRNA. Nucleic Acids Res. 2017 Apr 7;45(6):3473-3486.
3. Surolia I, Pirnie SP, Chellappa V, Taylor KN, Cariappa A, Moya, et al. Functionally defective germline variants of sialic acid acetyltransferase in autoimmunity. Nature. 2010 Jul 8;466(7303):243-7.

OTHER PEER-REVIEWED PUBLICATIONS

1. **Pirnie SP**. Common Sequelae of Severe Traumatic Brain Injury: A Case Report. Rhode Island Medical Journal. 2025 Aug 1;108(8):12-4.
2. C arayannopoulos AG, **Pirnie SP**, Gundersen AI, Hentschel C. Rehabilitation Strategies for Traumatic Brain Injury: Insights and Innovations. Rhode Island Medical Journal. 2025 Aug 1;108(8):16-9.
3. Autuoro JM, **Pirnie SP**, Carmichael GG. Long noncoding RNAs in imprinting and X chromosome inactivation. Biomolecules. 2014 Jan 7;4(1):76-100.
4. Pillai S, Cariappa A, **Pirnie SP**. Esterases and autoimmunity: the sialic acid acetyltransferase pathway and the regulation of peripheral B cell tolerance. Trends Immunol. 2009 Oct;30(10):488-93.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

NON-PEER-REVIEWED

1. University of Michigan Physical Medicine & Rehabilitation Residency Podcast 2019 <https://podcasts.apple.com/us/podcast/university-of-michigan-pm-r-podcast/id1468813902>

SPEAKING PRESENTATIONS

Regional

1. Dissertation Defense: *"An Ultraconserved Element Controls Homeostatic Splicing of ARGLU1 mRNA."* University of Connecticut School of Medicine, Farmington, CT. 2015.
2. 12th Annual Symposium on Patient Safety & Continuous Quality Improvement: *"Use of Hgb A1c as a measure of risk for hypoglycemia in the elderly."* UConn Health Center/ University of Connecticut School of Medicine, Farmington, CT. 2016
3. Internal Medicine Educational Conference: *"Landmark Papers in the use of Monoclonal Antibody Treatment for Inflammatory Bowel Disease."* UMass Memorial Medical Center/University of Massachusetts School of Medicine, Worcester, MA. 2018.
4. Physical Medicine & Rehabilitation Grand Rounds: *"Morbidity and Mortality Conference ."* University of Michigan Medical School, Ann Arbor, MI. 2019.
5. University of Michigan PM&R Theodore Cole Research Day: *Cognitive and Functional Outcomes following Presentation to the ED for Possible Traumatic Brain Injury.* University of Michigan School of Medicine, Ann Arbor, MI. 2020.
6. Physical Medicine & Rehabilitation Grand Rounds: *"There and Back: An update on the Molecular and Cell Biology of Peripheral Nerve regeneration following injury."* University of Michigan School of Medicine, Ann Arbor, MI. 2021.
7. University of Michigan PM&R Theodore Cole Research Day: *Cognitive and Functional Outcomes following Presentation to the ED for Possible Traumatic Brain Injury.* University of Michigan School of Medicine, Ann Arbor, MI. 2021.
8. Newport Hospital Community Lecture Series: *Physical Medicine and Rehabilitation at Newport Hospital.* Lifespan Health System. 2022
9. Lifespan Rehabilitation Services Conference: *Current Trends in Neurorehabilitation: Physiatry Considerations.* Lifespan Health System. 2024

ABSTRACTS

National Academic Presentations and Abstracts

1. 2014 **Pirnie SP**, Carmichael GG. An Ultraconserved Element Controls Splicing of Differentially Localizing ARGLU1 mRNA. 29th Annual MD/PhD National Student Conference. Keystone, CO. 7/18-21/2014
2. 2023 Setty AA, Pirnie SP. New-Onset Rapid Functional Decline in Dominant Arm Decades after Obstetric Brachial Plexus Injury: A Case Report. AAPM&R Annual Conference. New Orleans, LA. 11/15/2023

International Academic Presentations and Abstracts

3. 2012 **Pirnie SP**, Carmichael GG. Ultraconserved Intron Leads to Nuclear Retention of Partially Spliced ARGLU1 RNA. 2012 Annual Riboclub Meeting, Orford, Quebec, Canada. 9/24-9/26/2012.
4. 2014 **Pirnie SP**, Carmichael GG. An Ultraconserved Element Controls Alternative Splicing of Differentially Localizing ARGLU1 mRNA. 19th Annual RNA Society Meeting, Quebec City, Quebec, Canada. 6/3-6/8/2014.
5. 2015 **Pirnie SP**, Carmichael GG. Development of a High Throughput Method to Assess Genome-wide RNA 2'-O-Methylation. Gordon Research Conference on RNA Editing,

Lucca, Italy. 3/8-3/13/2015.

GRANTS

Completed

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|-----------------------------------------------|-----------|
| 1. Undergraduate Research Opportunities Grant | 2006-2007 |
| University of New Hampshire | |

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

University of Michigan Medical School

07/2018	Physical Medicine and Rehabilitation Resident Foundations Lecture Series <i>"Basics of Rehabilitation Care for Patients with Spinal cord Injury"</i> Role: Lecturer
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Warren Alpert Medical School of Brown University

Spring 2022-Fall 2024	Introduction to Physical Medicine & Rehabilitation: Preclinical Elective. Role: Course Director
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HOSPITAL TEACHING, ADVISING and MENTORING ROLES*

09/2021-present	Rotating Physical Medicine and Rehabilitation Elective Students (MS3+MS4) Role: Preceptor
2022-2024	Mentoring Brown Medical Students interested in PM&R