University of Iowa
Book of Experts

Eighty-sixth General Assembly
2016 Session

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Table of Contents

Budgeting 1 - 5
Cultural Affairs 6 - 8
Economic Development 9 - 29
Education 30 - 66
Environment & Energy 67 - 76
Health Care 77 - 97
Human Services 98 - 102
Judiciary 103 - 109
Lunch and Learn Lecturers 110 – 112
Postsecondary Education 113 - 120
Public Health 121 - 134
Research 135 - 168
Transportation 169 - 170
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<td>Professor, Civil and Environmental Engineering</td>
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## Prescription Drugs

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### Radiation Oncology

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### Elder Care Law

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### Family Law

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## Landlord-Tenant Law

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## Open Public Records and Open Meetings Law

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</tr>
</tbody>
</table>
### Property Law

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<td>Professor, International Programs</td>
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<td>and Student Affairs</td>
<td>in the curriculum, administrative response to campus controversies</td>
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<td>and Student Affairs</td>
<td>assessment of student outcomes and experiences; college rankings and perceptions</td>
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<td>of quality; student retention/persistence</td>
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# Public Health

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## Environmental Health

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Emergency Management Coordinator

- Coordinator and primary contact for the all-hazards disaster preparedness planning and response program at UIHC
- Responsible for ongoing hospital compliance with the National Incident Management System (NIMS), and maintaining the readiness of the UIHC Hospital Incident Command System (HICS)
- Responsible for ongoing compliance with emergency management accreditation standards as set forth by The Joint Commission for the hospital and its outreach clinics

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- Led the development of the Hospital Emergency Incident Command System and its successor the Hospital Incident Command System for the UIHC to establish a structure for use in responding to all types of emergencies and disasters and other major challenges that require a quickly considered and expeditiously agreed to plan of action that involves all necessary components of the UIHC.
- Longstanding knowledge of and working relationships with leaders of other Iowa hospitals, health care associations, major businesses and State of Iowa Departments including emergency response agencies within the State of Iowa.
- Have served in several different emergency management roles including Liaison Officer and also as Incident commander in a number of exercises and as back-up in two actual events.
- Have authored or participated in writing numerous emergency operations plans for general preparedness and for specific applications and also scenarios, injects and assignments associated with several emergency preparedness exercises.

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Workforce

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- Software tools for human disease mutation identification  
- Computer architecture  
- Parallel processing  
- Distributed computing  
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- Co-founder of BIO::NEOS, provider of innovative software solutions for all areas of genetics and genomics research. Helps medical researchers study autism, hypertension, cystic fibrosis, cancer, and vision-related diseases.  

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- Study of lung molecular and cellular biology as it related to the pathogenesis and treatment of cystic fibrosis (CF lung disease)  
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- Molecular mechanism of redox-mediated signaling in the involved in ischemia/reperfusion injury, sepsis, and inflammation  

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- Works to understand the biology and pathogenesis of cystic fibrosis and on developing new treatments.  
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Data

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Diabetes

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- Studies how diabetes and other diseases affect skeletal muscle, more specifically we study how diseases and aging change muscle gene activity to cause insulin resistance and muscle atrophy
- Searching for a medicine to prevent and reverse muscle wasting. We recently found that ursolic acid (a chemical found in apple peels) prevents muscle wasting and increases muscle mass and strength in mice. Beginning studies that will test ursolic acids in people.
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- Regulation of gene expression by insulin
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**Heart Disease**

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- Calcium-/calmodulin dependent kinase II (CaMKII) signaling in vascular smooth muscle cells  
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- Calcium- and ROS- dependent signaling in vascular injury  
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- Impact of smoking, obesity, diabetes and kidney disease on blood vessels
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### Imaging

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Injury

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Macular Degeneration

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- Retinal stem cell transplantation: Transplantation of stem cell derived retinal neurons into retinal degenerative hosts as a means of inducing retinal regeneration
- Tissue engineering: Production of biodegradable polymer based technologies for the development of outer retinal equivalents de novo
- Disease modeling: using patient specific stem cells to recapitulate disease in a dish
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Muscular Dystrophy

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Professor, Departments of Neurology and Internal Medicine
Professor and Chair, Molecular Physiology & Biophysics
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- Focus on elucidating the molecular basis of muscular dystrophy and developing therapeutic strategies to treat muscular dystrophy. The laboratory’s research on the function of dystrophin lead to the discovery of the skeletal muscle dystrophin-glycoprotein complex, which spans the muscle cell membrane and links the subsarcolemma actin cytoskeleton to the surrounding basement membrane.
- Focus on four related areas:
  o Molecular pathogenesis of dystrophin-glycoprotein complex disorders
  o Mechanistic basis of maintaining muscle membrane integrity
  o Molecular pathogenesis of disorders arising from defects in dystroglycan glycosylation
  o Structural basis of dystroglycan function as a basement membrane receptor
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- Diagnosis of muscular dystrophies affected children and adults
- Clinical management of muscular dystrophies affected children and adults
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- Created a fruity fly model of emery-Dreifuss muscular dystrophy. This model allows for genetic studies and drug screens to identify potential therapies.  
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Neurological Disorders

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Assistant Professor, Departments of Communication Sciences and Disorders, Neurology, and Neuroscience  
- Investigates the relationship between memory and language and the contribution of declarative memory to social functioning.  
- Created the Iowa Traumatic Brain Injury Registry at UIHC.  
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Professor, Departments of Surgery and Neurosurgery  
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Daniel Tranel, Ph.D.  
Professor, Neuroscience Ph.D. Program Director  
- Specific topics include: retrieval of conceptual knowledge; emotion and decision-making; face processing; acquired disorders of social conduct; memory. Has had research pertaining to Alzheimer’s and PTSD published in prominent journals.  
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Pharmaceutics / Pharmaceutics Technology  

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Polymers  

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Dean, College of Engineering
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Post-Traumatic Stress Disorder

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- Post-stroke depression and other mental disorders like anxiety disorder, apathy, mania, pathological crying
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- Treatment of these disorders
- Depression and other mental disorders following traumatic brain injury
- Prevention of depression and apathy among patients who have had a stroke
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John Wemmie, MD, PhD
Associate Professor, Departments of Psychiatry and Neurosurgery
- Research focuses on fear-related learning and memory in mice as a model for how the traumatic memories in PTSD get formed and become problematic. Dr. Wemmie and colleagues have found that brain pH and acid-sensing ion channels play key roles in the formation of traumatic memories. Furthermore, they have found that manipulating pH at key times in the memory formation process can increase or reduce these problematic memories. His group is working to determine whether similar processes play roles in the human brain and in human psychiatric disease.
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Spine/Lower Back Pain

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Professor, Biomedical Engineering
- Spine biomechanics
- Effect of mechanical loads on the cellular activities in the intervertebral discs
- Discogenic low back pain
- Mathematical modeling of spinal muscles

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- Multi-body dynamics
- Whole body vibration
- Structural health monitoring
- Damage detection
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Substance Abuse

Anne Helene Skinstad, Ph.D., Psy.D.
Clinical Associate Professor, Department of Community and Behavioral Health, Director, Director of National American Indian and Alaska Native Addiction Technology Transfer Center, College of Public Health

- Dr. Skinstad is an expert in treatment and prevention of substance use disorders; co-occurring mental health disorders, especially post-traumatic stress disorder and problem gambling; and assisting treatment and prevention agencies to implement evidence based practices with substance use and mental health disorders. She has also developed many educational programs for substance abuse education, and studying problem gambling and co-occurring substance use among students at the University of Iowa.

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## Transportation Construction Techniques

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Asghar Bhatti</td>
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</tr>
<tr>
<td></td>
<td>• Performance-based optimum design of semi-rigid frames; Simulation of wind loading of highway signs; Modeling forces in human muscles including fatigue; Productivity loss in civil construction projects.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ann Campbell</td>
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</tr>
<tr>
<td></td>
<td>• An expert of inventory routing problems, logistics for disaster relief &amp; preparedness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hosin (David) Lee</td>
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</tr>
<tr>
<td></td>
<td>• Development of innovative low-carbon innovative construction materials; Warm mix asphalt, Asphalt pavement recycling technologies; Development of an automated pavement crack image analysis system; Polymers in concrete; Utilization of recycled materials in transportation infrastructure.</td>
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<td></td>
</tr>
<tr>
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<td>(319) 335-0837</td>
</tr>
<tr>
<td></td>
<td>• Heuristic search, logistics and fleet management, operations research in agriculture, sports analytics</td>
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<td></td>
</tr>
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</tr>
<tr>
<td></td>
<td>• Logistics and vehicle routing</td>
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<td></td>
</tr>
</tbody>
</table>
### Drivers Safety

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Research Interests</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omar Ahmad</td>
<td>Assistant Director, National Advanced Driving Simulator</td>
<td>- Behavior modeling and scenario control in real-time virtual environments. <a href="mailto:omar-ahmad@uiowa.edu">omar-ahmad@uiowa.edu</a></td>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
</tbody>
</table>

### Emergency Management

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Research Interests</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ann Campbell</td>
<td>Professor of management and organizations</td>
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</tr>
</tbody>
</table>
Index

A
Administrative Law and Procedure and Administrative Regulation 102
Advanced Registered Nurse Practitioners 76
Aging 121-122
Aging/Alzheimer’s/Brain Syndromes/Dementia 134-137
Agricultural Law 102
Air Quality 66,120-121
Anesthesia 76
Animal Use in Research and Education 91
Anthropology 5
Arbitration 101
Art Education 28
Art History 5
Art Law and Ethics
Art Museums and Cultural Institutions 5
Audiology 75-76
Autism 29

B
Bankruptcy and Debt 8
Biotechnology 136
Bio Terrorism/Chemical Threat Preparedness 122
Bio ventures 8-9
Book Arts 5
Business Development 9-10
Business Law 10-11

C
Cancer 136-140
Cardiothoracic Surgery 76
Career Counseling/Development 29-30
Career Development 11-12
Chemistry 30
Children’s Literature 31
Civil Procedure 101-102
College Readiness 31-32
Communication Law
Comparative Law 102
Competition Law 12
Computer Science 12-14
Constitutional Law 102-103
Construction Techniques 166
Contract Law 14
Core Curriculum / Common Core Standards 32
Corporate Finance 13
Corporate Law 14
<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Accounting</td>
<td>1-2</td>
</tr>
<tr>
<td>Couple and Family Therapy</td>
<td>33</td>
</tr>
<tr>
<td>Criminal Law and Procedure</td>
<td>103</td>
</tr>
<tr>
<td>Cystic Fibrosis</td>
<td>140-142</td>
</tr>
<tr>
<td>Data</td>
<td>143-144</td>
</tr>
<tr>
<td>Dental</td>
<td>122</td>
</tr>
<tr>
<td>Dental Access</td>
<td>77</td>
</tr>
<tr>
<td>Dental Treatment</td>
<td>77</td>
</tr>
<tr>
<td>Dermatology</td>
<td>78</td>
</tr>
<tr>
<td>Diabetes</td>
<td>144-145</td>
</tr>
<tr>
<td>Disability Law</td>
<td>97</td>
</tr>
<tr>
<td>Diversity</td>
<td>112-113</td>
</tr>
<tr>
<td>Domestic Violence</td>
<td>97</td>
</tr>
<tr>
<td>Drivers Safety</td>
<td>167</td>
</tr>
<tr>
<td>E-Health and Innovation</td>
<td>78</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>36</td>
</tr>
<tr>
<td>Education Administration / Leadership</td>
<td>36-38</td>
</tr>
<tr>
<td>Education Law</td>
<td>38</td>
</tr>
<tr>
<td>Education Reform</td>
<td>38</td>
</tr>
<tr>
<td>Elder Care Law</td>
<td>98</td>
</tr>
<tr>
<td>Electronic Health Information</td>
<td>78-79</td>
</tr>
<tr>
<td>Electronics/Networks/Communications</td>
<td>146-147</td>
</tr>
<tr>
<td>Emergency Management</td>
<td>167</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>79</td>
</tr>
<tr>
<td>Employment Discrimination Law</td>
<td>14</td>
</tr>
<tr>
<td>Employment Law</td>
<td>15</td>
</tr>
<tr>
<td>Energy Development</td>
<td>66-67</td>
</tr>
<tr>
<td>English as a Second Language / Bilingual Education</td>
<td>40-41</td>
</tr>
<tr>
<td>English Education</td>
<td>39-40</td>
</tr>
<tr>
<td>Entrepreneurs</td>
<td>41</td>
</tr>
<tr>
<td>Environmental Health</td>
<td>123-124</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>124</td>
</tr>
<tr>
<td>Ethics</td>
<td>42</td>
</tr>
<tr>
<td>Evidence</td>
<td>104</td>
</tr>
<tr>
<td>Family Law</td>
<td>98</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>79</td>
</tr>
<tr>
<td>Farm Safety</td>
<td>125</td>
</tr>
<tr>
<td>Federal Courts</td>
<td>104</td>
</tr>
<tr>
<td>Federal Requirements (NCLB)</td>
<td>42</td>
</tr>
<tr>
<td>Film</td>
<td>6</td>
</tr>
<tr>
<td>Finance</td>
<td>16</td>
</tr>
<tr>
<td>Finance and Higher Education</td>
<td>42</td>
</tr>
<tr>
<td>Category</td>
<td>Pages</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Financial Mathematics</td>
<td>147</td>
</tr>
<tr>
<td>Floods/Water Management/River/Hydraulics</td>
<td>67-69</td>
</tr>
<tr>
<td>Foodborne Outbreaks</td>
<td>125</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>43</td>
</tr>
<tr>
<td><strong>G</strong></td>
<td></td>
</tr>
<tr>
<td>General Access</td>
<td>79-80</td>
</tr>
<tr>
<td>Genetics</td>
<td>148-150</td>
</tr>
<tr>
<td>Geology</td>
<td>69</td>
</tr>
<tr>
<td>Gifted and Talented Programs</td>
<td>45-46</td>
</tr>
<tr>
<td>Government Contracts</td>
<td>2</td>
</tr>
<tr>
<td><strong>H</strong></td>
<td></td>
</tr>
<tr>
<td>Health Care Law</td>
<td>80</td>
</tr>
<tr>
<td>Health Care Workers</td>
<td>81</td>
</tr>
<tr>
<td>Health Management</td>
<td>125-126</td>
</tr>
<tr>
<td>Health Promotion</td>
<td>126-128</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>46-47</td>
</tr>
<tr>
<td>Higher Education</td>
<td>36-37</td>
</tr>
<tr>
<td>Hospital Dentistry</td>
<td>82</td>
</tr>
<tr>
<td>Housing and Home Foreclosures</td>
<td>16-17</td>
</tr>
<tr>
<td><strong>I</strong></td>
<td></td>
</tr>
<tr>
<td>Imaging</td>
<td>154-157</td>
</tr>
<tr>
<td>Immigrant Literacy</td>
<td>47</td>
</tr>
<tr>
<td>Immigration Law</td>
<td>104</td>
</tr>
<tr>
<td>Indian Law</td>
<td>104</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>128</td>
</tr>
<tr>
<td>Injury</td>
<td>157</td>
</tr>
<tr>
<td>Insecticides</td>
<td>157</td>
</tr>
<tr>
<td>Insurance</td>
<td>82-83</td>
</tr>
<tr>
<td>Insurance Market</td>
<td>17</td>
</tr>
<tr>
<td>Intellectual Property</td>
<td>104-105</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>83</td>
</tr>
<tr>
<td>International Environmental Law</td>
<td>69</td>
</tr>
<tr>
<td>International Human Rights</td>
<td>48</td>
</tr>
<tr>
<td>Investment</td>
<td>18</td>
</tr>
<tr>
<td><strong>J</strong></td>
<td></td>
</tr>
<tr>
<td><strong>K</strong></td>
<td></td>
</tr>
<tr>
<td><strong>L</strong></td>
<td></td>
</tr>
<tr>
<td>Landlord-Tenant Law</td>
<td>105</td>
</tr>
<tr>
<td>Lead Testing</td>
<td>129</td>
</tr>
<tr>
<td>Lean Management</td>
<td>3</td>
</tr>
<tr>
<td>Learning Disabilities</td>
<td>50</td>
</tr>
<tr>
<td>Local Government</td>
<td>18</td>
</tr>
<tr>
<td>Lung Disease</td>
<td>157-158</td>
</tr>
<tr>
<td><strong>M</strong></td>
<td></td>
</tr>
</tbody>
</table>

173
<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macular Degeneration</td>
<td>158-159</td>
</tr>
<tr>
<td>Management</td>
<td>18-19</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>20-23</td>
</tr>
<tr>
<td>Market Prediction</td>
<td>23</td>
</tr>
<tr>
<td>Marketing</td>
<td>22-23</td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>51</td>
</tr>
<tr>
<td>Media and Young Children</td>
<td>52</td>
</tr>
<tr>
<td>Medications and Medication Therapy Access</td>
<td>83</td>
</tr>
<tr>
<td>(pharmaceutical care)</td>
<td></td>
</tr>
<tr>
<td>Multiple Sclerosis</td>
<td>83</td>
</tr>
<tr>
<td>Muscular Dystrophy</td>
<td>159-160</td>
</tr>
<tr>
<td>Neurological Disorders</td>
<td>160-161</td>
</tr>
<tr>
<td>Neurology</td>
<td>84</td>
</tr>
<tr>
<td>Newborn and Maternal Screening</td>
<td>85</td>
</tr>
<tr>
<td>Non-Profits</td>
<td>3-4</td>
</tr>
<tr>
<td>Nuclear</td>
<td>70</td>
</tr>
<tr>
<td>Obesity</td>
<td>130</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>85</td>
</tr>
<tr>
<td>Occupational Health</td>
<td>99</td>
</tr>
<tr>
<td>Open Public Records and Open Meetings Law</td>
<td>105</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>85</td>
</tr>
<tr>
<td>Orthopaedics</td>
<td>85</td>
</tr>
<tr>
<td>Orthopaedics and Rehabilitation</td>
<td>86</td>
</tr>
<tr>
<td>Otolaryngology</td>
<td>86</td>
</tr>
<tr>
<td>Pathology</td>
<td>86</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>86</td>
</tr>
<tr>
<td>Pharmaceuticals</td>
<td>24</td>
</tr>
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