

Lawson, Paul A.

**Paul A. Lawson, Ph.D.**  
**President's Associates Presidential Professor, Fulbright Alumni**  
**Curriculum Vitae**

**Personal Details**

**Mailing Address:** School of Biological Sciences  
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University of Oklahoma  
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**Web page:** <http://lawsonmicrobialsystematics.com/>

**Nationality:** British, American Citizen (2016).

**EDUCATION**

1993 Ph.D. The London Hospital Medical College, University of London, UK.  
Bacterial Molecular Systematics, Mentors: Haroun shah / Duncan Clark.

1985 Graduate Fellowship Induction Course in Medical Microbiology. Paddington  
College, Paddington Green, London, UK.

1981-84 B.Sc. (Hons). Royal Holloway College, University of London, UK. Special  
Biochemistry.

**PROFESSIONAL EXPERIENCE**

2017-22 Adjunct Professor, Biogas Institute Key Laboratory of Development and  
Application of Rural Renewable Energy, Ministry of Agriculture.

2013-present Professor, Department of Microbiology and Plant Biology, George Lynn Cross  
Hall, 770 Van Vleet Oval, University of Oklahoma, Norman, OK 73019.

2009-2013 Associate Professor, Department of Microbiology and Plant Biology, George  
Lynn Cross Hall, 770 Van Vleet Oval, University of Oklahoma, Norman, OK  
73019.

2005-2009 Assistant Professor. Department of Botany and Microbiology. OU

1999- 2005 Senior Research Fellow  
School of Food Biosciences, Molecular Systematics Group, University of Reading,  
Science and Technology Centre, Whiteknights, RG6 6BZ, Reading, UK. Head of  
Lab: M. David Collins Ph.D, DSc.

1991-1999 Senior Postdoctoral Research Scientist.  
Microbiology Department, BBSRC Institute of Food Research.  
Reading, UK. Mentor: M. David Collins DSc.

1989-1991 Research Assistant,  
Department of Oral Microbiology, London Hospital Medical College.  
Head of Lab: Jeremy Hardie.

1987-1989 Scientific Officer,

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Directors' Laboratory, Imperial Cancer Research Fund, London, UK.  
Head of Lab: Sir Walter Bodmer.

1986-1987 Research Assistant, Microbial Resources Ltd, Reading, UK. Head of Lab: Duncan Clark

1985-1986 Microbiology Scientific Officer.  
Medical Research Council, Dental Research Unit, Periodontal Diseases Programme, The London Hospital Medical College, London, UK.

## Biosketch.

- Systematics a fundamental discipline underpins the science of microbiology, provides a framework allowing for the classification, nomenclature and identification of strains in diverse ecosystems that includes clinical, veterinary and environmental sources. My expertise in microbial systematics spans a 36-yr period and I have been responsible or associated with, the naming or reclassification of over 160 bacteria that includes 2 families, 40 genera and almost 100 species. However, the focus of much of my work is with the gastrointestinal tract of both man and animals. My major academic achievements in bacterial systematics includes a fundamental restructuring of the genus *Clostridium* and relatives, and the description of a plethora of novel taxa from environmental, clinical and veterinary sources. My record of success is demonstrated by my publication record (approx.200) that includes 18 chapters to the *Bergey's Manual of Systematic Bacteriology*, widely regarded as the preeminent resource for microbial identification and taxonomy. I have also contributed 3 chapters to a new book *Biodiversity and Taxonomy of the Lactic Acid Bacteria* and a chapter on *Carnobacteriaceae* for *The Prokaryotes*. Two chapter entitled Taxonomy of Bacteria and Archaea have also appeared in 2 editions of the *Manual of Clinical Microbiology*. I also collaborate on a regular basis with many recognized leaders in gut microbiology (e.g. Sydney Finegold (deceased) and Harry Flint). Furthermore, I have extensive links with those individuals that are recognized leaders in the characterization of chemotaxonomic traits (Jürgen Busse, Peter Schumann, Ken Suzuki, Myron Sasser, and Brian Tindall). My extensive experience results in being contacted on a regular basis for my opinions and assistance with taxonomic problems for organisms recovered from a wide range of sources. From 2010 I was the Associate Editor of the *Bulletin* for the Bergey's International Society of Microbial Systematics (BISMIS) and in July 2012 I was appointed as Editor-in-Chief. In the same year, I was appointed to the Editorial Board as an Associate Editor of the International Journal of Systematic and Evolutionary Microbiology (IJSEM) the premier journal for the description of novel taxa. In 2012, I was also elected to the International Committee on Systematics of Prokaryotes *Clostridium* and Related Taxa Sub Committee and in 2014 I was elected to the International Committee on Systematics of Prokaryotes *Bifidobacterium, Lactobacillus* and Related Organisms. I believe my passion for my subject matter is not only reflected in my research program but also in my active teaching program that extends beyond lectures to the teaching laboratory (Senior Capstone Lab 2007-2014, 2021-24). In addition, I continue to accept many undergraduates into my laboratory for the first-hand experience essential in the biological sciences. In 2017 after a series of lectures in Beijing and Chengdu, China I was appointed as Adjunct Professor, Key Laboratory of Development and Application of Rural Renewable Energy, Ministry of Agriculture. In 2018 I was a recipient of a Fulbright Scholar Award, this a teaching and research award based at the University of Technology, Cyprus 2019-2020. In, 2022 I was a recipient of a President's Associates Presidential Professor was my contributions, to research, teaching and service.

### **Center for Microbial Identification and Taxonomy (CMIT).**

Although for identification purposes, molecular methods are freely available to many laboratories, organisms cannot be described in the scientific literature purely on sequence information alone; a polyphasic taxonomic approach is required. In addition to identification based on molecular methods, the MIDI fatty acid identification system is already established within the CMIT. More classical methods include chemotaxonomic approaches that encompass cell wall, polar lipid and respiratory menaquinones, these important diagnostic biomarkers aid in the assignment of isolates to the correct species and genus; however, these methods are not readily available in many laboratories including the United States. The “Center” draws on my experience (>36yrs) and knowledge of organisms recovered from a wide range of sources and extensive national and international collaborations. In addition to providing a service and resource to the scientific community, these methods will be integrated into my teaching program and introduce students to some important methods not readily available at other US universities.

### **Key Career points**

- 2022. President’s Associates Presidential Professor
- 2021. Recognised as one of the 97 University of Oklahoma researchers are listed as among the most influential researchers in the world.
- 2018-21. IJSEM Outstanding Reviewer (200 manuscripts reviewed to date).
- 2020- Fulbright Alumni
- 2018. Fulbright Scholar Award (\$24000). Host Institute: University of Technology, Cyprus 2019-2020.
- Summer 2017 Distinguished Professor, Invited Lecture Tour (Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences) in Beijing and the Biogas Institute of Ministry of Agriculture which located in Chengdu City). Appointed as Adjunct Professor.
- 2017. Appointed as Associate Editor to Human Microbiome Journal.
- 2016- Committee A Department of Microbiology and Plant Biology.
- 2016-2020. Renewal funded Human Intestinal Microbial Ecologies of Indigenous Communities. R01GM089886-2 (\$ 1.4 million), K. Sankaranarayanan, Christina Warinner.
- 2015-2016. Chairperson. Oklahoma Academy of Sciences, Microbiology Section.
- 2015-16. Organizing Committee and invited speaker. Bergey’s International Society for Microbial Systematics. Pune, India. Defining Microbial Diversity in the Genomic Era, Sept 11-16th, 2016
- 2015-Elected as Chairman of Section H. Microbiology, Oklahoma Academy of Sciences. Appointed as OU Faculty Liaison. 2014.
- 2014-2017. Faculty Senate.
- 2014- Elected to the International Committee on Systematics of Prokaryotes: -*Bifidobacterium*, *Lactobacillus* and Related Organisms, 2014.
- 2013-14. Organizing Committee and invited speaker. Bergey’s International Society for Microbial Systematics. Edinburgh, Scotland. Defining Microbial Diversity in the Genomic Era, April 7-10th, 2014
- 2012-Elected as Editor-in-Chief BISMIS *Bulletin*
- 2012-Editorial Board as an Associate Editor of the International Journal of Systematic and Evolutionary Microbiology.
- 2012International Committee on Systematics of Prokaryotes *Clostridium* and Related Taxa Sub Committee.

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- 2010-Appointed as Associate Editor for Bergey's International Society for Microbial Systematics Bulletin 2011-2014. Co-PI. R01
- 2011-2016 NIH funded proposal to investigate the Human Intestinal Microbial Ecologies of Indigenous Communities. PIs C. Lewis, P.A. Lawson.
- 2011-Establishment of the Center for Microbial Identification and Taxonomy.
- 2009-present – plus 25 chapters for Bergey's Manual of Systematic Bacteriology
- 2009. Inducted as a Fellow of the Australasian College of Biomedical Scientists.

## PUBLICATIONS

### Peer-reviewed research journals.

175. Lawson, P.A., Miller, S., Savage-Ashlock. (2024). *Pseudomonas capstonei* sp. nov., isolated from a Winogradsky column. J. Syst. Evol. Microbiol. (in prep).
174. Lawson, P.A., Miller, S., Tanner, R.S. (2024). *Clostridium ragsdalei* sp. nov. isolated from freshwater pond sediment. Int. J. Syst. Evol. Microbiol. (in prep).
173. Albert, R., Busse, J., Lawson, P.A. (2024). *Asticcacaulis aquahabitans* sp. nov., a novel psychrotrophic member of the phylum Pseudomonadota isolated from Lake Michigan potable water. Int. J. Syst. Evol. Microbiol. (in prep).
172. Miller, S., Hendry, M., King, J., Sankaranarayanan, K., Lawson, P.A. (2023). *Bacteroides fecoris* sp. nov., isolated from the fecal material of an alpaca. Int. J. Syst. Evol. Microbiol. (submitted).
171. Miller, S., Hendry, M., King, J., Sankaranarayanan, K., Lawson, P.A. (2023). *Clostridium tanneriae* sp. nov., isolated from the fecal material of an alpaca. Int. J. Syst. Evol. Microbiol. (submitted).
170. Garner, C.T., Sankaranarayanan, K., Abin, C.A., Garner, R.M., Lawson, P.A. and Krumholz L.R. (2022). Description of *Methylocystis suflitae* sp. nov., a novel type II methanotrophic bacterium isolated from landfill cover soil. Int. J. Syst. Evol. Microbiol. (in press).
169. Abin, C.A., Sankaranarayanan, K., Garner, C.T., Sinelar, R.A., Kotary, K.F., Garner, R.M., Barclay, S. C., Lawson, P.A. and Krumholz L.R. (2022). Int. J. Syst. Evol. Microbiol. (Submitted). *Methylomonas rivi* sp. nov., *Methylomonas rosea* sp. nov., *Methylomonas aureus* sp. nov. and *Methylomonas subterranea* sp. nov., four novel methanotrophs isolated from a freshwater creek and the deep terrestrial subsurface. Int. J. Syst. Evol. Microbiol. (in prep).
168. Sharmily S. Khanam, Nisha Patel, Lindsey O' Neil, Alexandra Obregon-Tito, Raul Tito, Paul Lawson, Emilio Guija, Luzmila Troncoso, Luis Marin, Christina Warinner, Cecil M. Lewis, Krithivasan Sankaranarayanan (2021). Genotypic and Phenotypic Diversity of Antibiotic Resistant *Escherichia coli* Strains from the Gut Microbiome of Traditional and Antibiotic Naive Hunter-Gatherers in Peru. (submitted).
167. Kerin, L., Lawson, P.A., Dutton, N., Durward L. Bevis, D. L. and McLaughlin R.W. (2023). *Pantoea leporis* sp. nov., isolated from the faecal material of a rabbit. Int. J. Syst. Evol. Microbiol. 73.
166. Lawson, P.A., Saavedra, L., and Sankaranarayanan K. (2023). Reclassification of *Clostridium cocleatum*, *Clostridium ramosum*, *Clostridium spiroforme* and *Clostridium saccharogumia* as *Thomasclavelia* gen. nov. Int. J. Syst. Evol. Microbiol. 73.
165. Doyle, A.D., Smith, P.R., Lawson, P.A., and Tanner, R.S. (2022). *Clostridium muelleri* sp. nov., a carbon monoxide-fermenting acetogen isolated from old hay. Int. J. Syst. Evol. Microbiol. 72. DOI: [10.1099/ijsem.0.005297](https://doi.org/10.1099/ijsem.0.005297).
164. Fotedar R, Sankaranarayanan K, Caldwell ME, Zeyara A, Malki AA, Kaul R., Shamari, H.A., Ali, M., Marri, M., Lawson, P.A. (2021). Reclassification of *Facklamia ignava*, *Facklamia sourekii* and *Facklamia tabacinasalis* as *Falseniella ignava* gen. nov., comb. nov., *Hutsoniella sourekii* gen. nov., comb. nov., and *Ruoffia tabacinasalis* gen. nov., comb. nov., and description of *Ruoffia*

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- halotolerans* sp. nov., isolated from hypersaline Inland Sea of Qatar. *Antonie Van Leeuwenhoek*;114:1181–1193.
163. Min Yang; Jiang Li; Xiao-meng Lv; Li-rong Dai; Ke-jia Wu; Bo Tu; Paul A. Lawson; Yue-qin Tang; Lei Cheng (2021). *Thermosynergistes pyruvativorans* gen. nov., sp. nov, an anaerobic, pyruvate-degrading bacterium from Shengli oilfield, and proposal of *Thermosynergistaceae* fam. nov in the phylum *Synergistetes*. *Int. J. Syst. Evol. Microbiol.* 71.
162. Hunter, K.C., Lawson, P.A., Dowd, S.E., and McLaughlin, R.W. (2021). *Clostridium chrysemydis* sp. nov., isolated from the fecal material of a painted turtle. *Int. J. Syst. Evol. Microbiol.* 2021. doi: 10.1099/ijsem.0.005023. PMID: 34569920.
161. Bernard, k., Vachon, A., Pacheco, A. L., Burdz, T., Wiebe, D., Beniac, D., Booth, T., Domingo, M.-C., Doyle, A., Lawson, P. A., Bernier, A.-M. (2020). *Pseudoxanthomonas winnipegensis* sp. nov., derived from Human Clinical Materials and recovered from Cystic Fibrosis (CF) and other Patient Types in Canada and Emendation of *Pseudoxanthomonas spadix* Young 2007. *International journal of systematic and evolutionary microbiology. International journal of systematic and evolutionary microbiology*, 70, 6313-6322.
160. Xiaomeng, L., Min, Y., Lirong, D. Y., Bo, B., Chen, C., Lawson, P. A., Cheng, L., Yueqin, T. (2020). *Zhaonella formicivorans* gen. nov., sp. nov., an anaerobic formate-utilizing bacterium isolated from Shengli oilfield, and proposal of four novel families and Moorellales ord. nov. in the phylum Firmicutes. *Int. J. Syst. Evol. Microbiol.* 70: 3361-3373.
159. Bernard, k., Burdz, T., Pacheco, A. L., Wiebe, D., Patel, N., Lawson, P. A., Longin, j., Domingo, M.-C., Bernier, A.-M. (2020). Description of *Enemella* gen. nov., *Enemella evansiae* sp. nov., *Enemella dayhoffiae* sp. nov. and *Parinemella sanctibonifatensis* gen. nov. sp. nov., novel taxa assignable to the Family Propionibacteriaceae and derived from Human Clinical Samples. *Int. J. Syst. Evol. Microbiol.* 70:5676-5685.
158. Lawson, P. A., Patel, N., Doyle, A., Moore, E. R.B., Lo, A. s., Testerman, T. L. (2020). *Parapseudoflavitalea muciniphila* gen. nov., sp. nov. a member of the family *Chitinophagaceae* isolated from a human peritoneal tumor. Reclassification of *Pseudobacter ginsenosidimutans* as *Pseudoflavitalea ginsenosidimutans* comb. nov. *Int. J. Syst. Evol. Microbiol.* 70:, 3639-3646.
157. Wu, K., Dai, L., Bo, B., Liu, L. Y., Zheng, Z. Z., Zhang, H., Lawson, P. A., Cheng, L. (2020). *Gudongella oleilytica* gen. nov., sp. nov., an aerotolerant bacterium isolated from Shengli oilfield and validation of family *Tissierellaceae*. *Int. J. Syst. Evol. Microbiol.* 70: 951-957.
156. Zhang, X., Tu, B., O., Xiao-Meng, L., Yang, M., Dai, L.-r., Zhang, H., Tang, Y.-Q., Cheng, L. (2019). Description of *Bioaibacter acetigenes* gen. nov., sp. nov., and proposal of *Thermosediminibacterales* ord. nov. containing two novel families of *Tepidanaerobacteraceae* fam. nov. and *Thermosediminibacteraceae* fam. nov. *Int. J. Syst. Evol. Microbiol.* 69: 3891-3902.
155. Hamilton-Brehm, S. D., Steward, L. E., Caldwell, M. E., lawson, P. A. (2019). *Thermoanaeroseptum fracticalcis* gen. nov. sp. nov. a novel furmarate-fermenting microorganism from a deep fractured carbonate aquifer of the US Great Basin. *frontiers in Microbiology*, 10.
154. Fotedar, R., Caldwell, M.E., Stoeck, T., Zeyara, A., Al Malaki, Al Marri<sup>1</sup> M., and Lawson, P.A. (2020). *Ningiella ruwaisensis* gen. nov., sp. nov., a member of the family *Alteromonadaceae* isolated from marine water of the Arabian Gulf. *Int. J. Syst. Evol. Microbiol*, 70, 4130-4138.
153. Plante, C., Ellis, J.C., Thomas M.S., Patel, N.P., Faircloth, W., Hayes, S., Linton, E., Norden, D., Severenchuk, I., West, C., Brown, J., ; Rebecca Plante, R. (2018). *Kistimonas alittae* sp. nov., a gammaproteobacterium isolated from the marine annelid *Alitta succin*. *Int J Syst Evol Microbiol* 2019;69:235–240
152. Cox, L.M., Sohn, J., Tyrrell, K.L., Citron, D.M., Lawson, P.A., Nisha B. Patel, N.B., Iizumi, T., Perez-Perez, G.I., Goldstein, E.J.C., and Blaser, M.J. (2017). Description of two novel members of the family *Erysipelotrichaceae*: *Ileibacterium valens* gen. nov., sp. nov. and *Dubosiella newyorkensis*, gen. nov., sp. nov., from the murine intestine, and emendation to the description of *Faecalibacterium rodentium*. *Int J Syst Evol Microbiol.* 67, 1247-1254.
151. Patel, N., Tito, R., Obregón-Tito, A., Trujillo-Villaroel, O., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis Jr. C. and Lawson, P. A. (2019). *Citroniella saccharovorans* gen. nov. sp. nov., a member of the family *Peptoniphilaceae* isolated from a

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- human fecal sample from a coastal traditional community member.. Int. J. Syst. Evol. Microbiol. 69: 1142-1148.
150. Pikuta, E.V., Lyu, Z., Williams, M.D., Patel, N.B., Liu, Y., Hoover, R.B., Busse, Lawson, P.A., and Whitman, W.B. (2017). *Sanguibacter gelidistatuariae* sp. nov., a novel psychrotolerant anaerobe from an ice sculpture in Antarctica, and emendation of descriptions for the family *Sanguibacteraceae*, the genus *Sanguibacter* and species *S. antarcticus*, *S. inulinus*, *S. kedieii*, *S. marinus*, *S. soli* and *S. suarezii*. Int. J. Syst. Evol. Microbiol. 67, 1444-50.
149. Pikuta, E.V., Lyu, Z., Williams, M.D., Patel, N.B., Liu, Y., Hoover, R.B., Busse, Lawson, P.A., and Whitman, W.B. (2017). *Williamwhitmana taraxaci* gen. nov., sp. nov., a psychrophilic anaerobe with a novel type of cytology from Lake Untersee in Antarctica, description of *Williamwhitmanaceae* fam. nov., and emendation of the order *Bacteroidales* Krieg 2011 Int. J. Syst. Evol. Microbiol. 67, 4132-45.
148. Koelschbach, J.S., Mouttaki, H., Meyer, C., Heipieper, H.J., Rachel, R., Lawson, P.A., Rainer U. Meckenstock, R.U. (2016) *Rectonema contaminophilus* gen. nov., sp. nov., a rod-shaped spirochete isolated from an anaerobic naphthalene-degrading enrichment culture. Int. J. Syst. Evol. Microbiol. (in revision).
147. Lawson, P.A., O'Neal, L., Schumann, P. and Falsen, E. (2016) *Luethyella okanaganae* gen. nov., sp. nov., a novel genus of the family *Microbacteriaceae* isolated from the insect *Okanagana rimosus*. Curr Microbiol. (in press).
146. Pikuta, E.V., Menes, J.M., Lyu, Z., Patel, N.B., Liu, Y., Hoover, R.B., Busse, Lawson, P.A., and Whitman, W.B. *Raineyella antarctica* gen. nov., sp. nov., a novel psychrotolerant, facultative anaerobe isolated 1 from two geographic locations of the Southern Hemisphere. Int. J. Syst. Evol. Microbiol. (in press).
145. Aubin, G.G., Bemer, P., Lemenand, O., Caillon, J., Kambarev, S, Patel, N.B., Lemenand, O., Lawson, P.A. and Corvec, S. (2016). *Propionibacterium namnetumiensis* sp. nov., isolated from human bone infection. Int J Syst Evol Microbiol. (In press). doi: 10.1099/ijsem.0.001204.
144. Lawson, P. A. (2016). Culturing of “not-yet cultured” microorganisms: The so-called “Microbial Dark Matter”! BISMIS-2016. Special Souvenir Booklet.
143. Lawson, P. A., Citron, D. M., Tyrrell, K. L. & Finegold, S. M. (2016). Reclassification of *Clostridium difficile* as *Clostridioides difficile* (Hall and O'Toole 1935) Prévot 1938. Anaerobe 40, 95–99.
142. Aubin, G.G., Kambarev, S, Bemer, P., O., Lawson, P.A. and Corvec, S. (2016). Draft Genome Sequence of Highly Rifampicin-Resistant *Propionibacterium namnetense* NTS 31307302 Isolated from a Patient with Bone Infection. Genome Announcements (in press)
141. Patel, N. B., Tito, R. Y., Obregon-Tito, A. J., O'Neal, L., Trujillo-Villarroel, O., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis, C. M., Jr & Lawson, P. A. (2016). *Peptoniphilus cationiae* sp. nov., isolated from a human faecal sample from a traditional Peruvian coastal community. Int J Syst Evol Microbiol 66, 2019–2024.
140. Lawson, P.A., and Rainey, F.A (2016). Proposal to restrict the genus *Clostridium* (Prazmowski) to *Clostridium butyricum* and related species. Int J Syst Evol Microbiol. 66: 1009-1016.
139. Lawson, P.A. (2016). The taxonomy of the genus *Clostridium*: current status and future perspectives. Microbiol. China. 43, 1070–1074.
138. O'Neal L, Obregon-Tito AJ, Tito RY, Ozga, A.T., Polo, S.I., Lewis Jr, C.M. and Lawson, P.A. (2015) *Clostridium amazonense* sp. nov. an obliquately anaerobic bacterium isolated from a remote Amazonian community in Peru. Anaerobe 35:33–37.
137. Jumas-Bilak, E., Philippe Bouvet, P., Allen-Vercoe, E., Lawson, P. A., Aujoulat, F., Jean-Pierre, H., Hélène Marchandin, H. (2015). *Rarimicrobium hominis* gen. nov., sp. nov., the fifth genus in the phylum Synergistetes including human clinical isolates. Int J Syst Evol Microbiol. 65: 3965-3970.
136. Obregon-Tito, A.J., Tito, R.Y., Metcalf, J., Sankaranarayanan, K., Clemente, J.C., Ursell, L.L., Xu, Z.Z., Van Treuren, W., Knight, R., Gaffney, P.M., Spicer, P., Lawson, P., Marin-Reyes, L., Trujillo-Villarroel, O., Foster, M., Guija-Poma, E., Troncoso-Corzo, L., Warinner, C., Ozga, A.T. and Lewis, C.M. (2015). Subsistence strategies in traditional societies distinguish gut microbiomes. Nature Communications. 6, 6505.

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135. Whitman, W.B., Lawson, P.A. and Losey, N. A. (2015) Response to Tindall on the legitimacy of the names Solimonadaceae Losey et al. 2013, Xanthomonadaceae Saddler and Bradbury 2005 and Xanthomonadales Saddler and Bradbury 2005. *Int J Syst Evol Microbiol.* 65, 1086-1087.
134. Infante-Dominguez, C., Lawson, P.A., Johnson, C.N., Sanchez-Porro, C. and Ventosa, A. (2015). *Fodinicurvata halophilus* sp. nov., a moderately halophilic bacterium from a marine saltern. *Int J Syst Evol Microbiol.* 65, 766-771.
133. Patel, N., Tito, R., Obregón-Tito, A., Trujillo-Villaroel, O., O'Neal, L., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis Jr. C. and Lawson, P.A. (2015). *Ezakiella puruensis* gen. nov., sp. nov. isolated from feces from a hunter-gatherer community in Peru. *Anaerobe.* 32: 43-48.
132. Lawson, P. A. and Sydney M. Finegold (2015). Reclassification of *Ruminococcus obeum* as *Blautia obeum* comb. nov *Int J Syst Evol Microbiol.* 65, 789-793.
131. Johnson, C.N., Whitehead, T.R., Cotta, M.A., Rhodes, R.E. and Lawson, P.A. (2014). *Peptoniphilus stercorisuis* sp. nov. from a swine manure storage tank and description of *Peptoniphilaceae* fam. nov. 64:3538-3545.
130. Stamps, B. W, Losey, N. A., Lawson, P.A. and Stevenson, B. S. (2014). Genome Sequence of *Thermoanaerobaculum aquaticum* MP-01T, the First Cultivated Member of Acidobacteria Subdivision 23, Isolate from a Hot Spring. *Genome Announcements*, 2, e00570-14.
129. Lawson, P.A., Wawrik, B., Allen, T.D., Johnson, C. N., Marks, C.R., Tanner, R.S., Harrimann, B.H. and Callaghan, A, V. (2014). *Youngiibacter fragile* gen. nov., sp. nov., isolated from natural gas production-water and reclassification of *Acetivibrio multivorans* as *Youngiibacter multivorans* comb. nov. *Int J Syst Evol Microbiol*, 64, 198-205.
128. Losey, N.A, Stevenson, B.S., Busse, H-J., Sinnighe Damste, J.S., Rijpstra, W.I.C., Rudd, S. and Lawson, P.A. (2013). *Thermoanaerobaculum aquaticum*, gen. nov., sp nov., the first cultivated member of Acidobacteria subdivision 23, isolated from a hot spring. *Int J Syst Evol Microbiol*, 63, 4149-4157.
127. Whitehead, T.R., Cotta, M.A., Falsen, E., Moore, E.R., and Lawson, P.A. Two novel species *Enterococcus lemanii* sp. nov. and *Enterococcus eurekaensis* sp. nov., isolated from a swine-manure storage pit. (2013). *Antonie van Leeuwenhoek.* 103, 89-98.
126. Lawson, P.A., Johnson, C.N., Bengtsson, L., Charalampakis G., Dahlén, G., Moore, E. and Falsen, E. (2012). *Peptostreptococcus canis* sp. nov., isolated from canine oral cavity. *Anaerobe*, 18, 597-601.
125. Allen-Vercocoe, E., Daigneault, M., White, A., Panaccione, R., Duncan, S.H., Flint, H.J., O'Neal, L. and Lawson. P.A. (2012). *Anaerostipes hadrus* comb. nov., a dominant species within the human colonic microbiota; reclassification of *Eubacterium hadrum* Moore et al. 1976. *Anaerobe.* 18, 523-529.
124. Marks, C., Stevenson, B., Rudd, S., and Lawson, P. (2012). Nitrospira dominated biofilm within a thermal artesian spring: a case for nitrification driven primary production in a geothermal setting. *Geobiology.* 10, 457-466.
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### Book Chapters (peer reviewed)

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36. Lawson, P.A. (2018). The Genus *Clostridioides*. *Bergey's Manual of Systematics of Archaea and Bacteria*. Wiley. (in prep)
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22. Lawson, P.A. (2014). The Genus *Vagococcus*. In *Biodiversity and Taxonomy of the Lactic Acid Bacteria*. Eds Brian J.B. Wood and Holzapfel, Wilhelm, H. Wiley-Blakewell.
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3. Lawson P.A. (1999). Taxonomy and systematics of predominant gut anaerobes In Colonic Microbiota, Nutrition and Health. Ed Gibson G. Kluwer Academic Publishers.
2. Shah H.N, Gharbia S.E and Lawson P.A. (1990) Chemotaxonomic Methods. In Anaerobic Microbiology: a Practical Approach. Ed. Levett PN. IRL Press, Oxford.
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### **Invited Lectures:**

Lawson, P. (Author & Presenter), Sankaranarayanan, K. (Author & Presenter), BISMis Live, "Genome inferred taxonomic analysis: beyond gene inventories," Bergey's International Society for Microbial Systematics, zoom presentation, international. (December 17, 2022). Oral Presentation.

Lawson, P. (Author & Presenter), Sankaranarayanan, K. (Author), Anaerobe 2022, "A Revised Taxonomy of the Genus *Treponema* Delineating Commensal and Pathogenic Organisms," The 16th Biennial Congress of the Anaerobe Society of the Americas, Hyatt Regency Hotel, Seattle. (June 27, 2022). Oral Presentation, Conference.

Lawson, P. (2019). Hee Haw for Health, "The Human Gut Microbiome. What can it do for you?," Oklahoma Donkey Dairy, Luther, OK. invited lecture.

Lawson, P., "Winds Of Change: Taxonomic Restructuring Of The Clinically Important Clostridia (invited Lecture)," Biogas Institute of Ministry of Agriculture, Chengdu, China. (July 22, 2019). invited lecture.

Lawson, P., "Why, When, How: Bacterial Taxonomy and Clinical Microbiology. What's in a Name?!" (invited Lecture)," Biogas Institute of Ministry of Agriculture, Chengdu, China. (July 21, 2019). Lecture, invited lecture.

Lawson, P., "'In-Silico' Chemotaxonomy: A Tool for 21st Century Microbial Systematics (invited Lecture)," The Second Institute of Oceanography (SIO), Ministry of Natural Resources, Hangzhou, China. (July 18, 2019). Lecture, invited lecture.

Lawson, P., "Culturing of "not-yet cultured" microorganisms: The so-called "Microbial Dark Matter"!" (invited Lecture)," The Second Institute of Oceanography (SIO), Ministry of Natural Resources, Hangzhou, China. (July 18, 2019). Lecture, invited lecture.

Lawson, P., Training Courses on the Research of Microbial Resources, "From the depths of the Amazon jungle, through health and disease, to the International Space Station and time travel! The magic of



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microbiomes (invited Lecture)," Chinese Academy of Sciences, Chinese Academy of Agricultural Sciences | CAAS Institute of Agricultural Resources and Regional Planning Beijing. (July 15, 2019). Lecture, Workshop.

Lawson, P., Training Courses on the Research of Microbial Resources, "Hot topics in Microbial Systematics: New approaches to Polyphasic Taxonomy or Taxonomy in the age of the "omics" and the Microbiome (invited Lecture)," Chinese Academy of Sciences, Chinese Academy of Agricultural Sciences | CAAS Institute of Agricultural Resources and Regional Planning Beijing. (July 15, 2019). Lecture, Workshop.

Lawson, P., ASM Microbe 2019, "Conundrums in nomenclature of microbial pathogens (Invited Lecture)," American Society of Microbiology, San Francisco, CA, USA. (June 21, 2019). Oral Presentation, Conference.

Lawson, P., Microbes on the move, "Culture-dependent Isolation and Identification of Lactic Acid Bacteria in Cow and Yak Milk and Traditional Dairy Products from Mongolia (invited Lecture)," Mongolian University of Science and Technology. (May 22, 2019). Oral Presentation, Conference.

Lawson, P., "From the depths of the Amazon jungle, through health and disease, to the International Space Station and time travel! The magic of microbiomes.(invited Lecture)," American Society of Microbiology Ambassador scheme, University of Nicosia, Cyprus. (March 27, 2019). Lecture, invited lecture.

Lawson, P., "From the depths of the Amazon jungle, through health and disease, to the International Space Station and time travel! The magic of microbiomes.(invited Lecture)," Department of Agricultural Sciences, Biotechnology and Food Science, Cyprus University of Technology. (March 26, 2019). Lecture, invited lecture.

Lawson, P.A. (2019). Microbiomes: clinical, animal and environmental communities. From a taxonomists point of view. Invited lecture. Alexander Silberman Institute of Life Sciences Edmond J. Safra Campus, The Hebrew University of Jerusalem, Israel.

Microbiomes, Clinical and Veterinary Microbiology. Taxonomy in the 21st Century. Northeastern State University on Wednesday, October 31, 2018.

Lawson, P.A., Identification and recovery of "missing microbes" from the gut microbiota of human populations living non-industrial lifestyles. BISMis-2018. Johannesburg, South Africa. April 10, 2018.

Seminar Series: 12 lectures presented to Chinese Academy of Sciences- Beijing and Chengdu, China, July 7-21th, 2017.

Human Microbiome at OU: An integrated "Omics", Cultivation and Taxonomic Approach. Microbiome Workshop, The Samuel Roberts Noble Foundation, Ardmore, OK, October 7-8, 2016.

*In-Silico* Chemotaxonomy: a Tool for 21st Century Microbial Systematics. BISMis 2016, 12-15<sup>th</sup> Sept, Pune, India.

Hot topics in Microbial Systematics: New approaches to Polyphasic Taxonomy. Two-day International Symposium on Microbial Ecology and Systematics, 16-17<sup>th</sup> Sept, 2016, Pune, India.

The Taxonomy of the Genus *Clostridium*: Current Status and Future Perspectives for the Clinical Community. Anaerobe 2016, July 11-14, Nashville, USA.

Microbial Genomic Taxonomy: A Look to the Future. Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, Beijing, China. Aug 23, 2015.

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The taxonomy of the genus *Clostridium*: Current status and future perspectives. The 7th National Conference of Microbial Resources & the International Symposium on Microbial Systematics and Taxonomy, Aug 25-30, 2015, Hangzhou, China.

Microbial Systematics in the Classroom. Stewardship of Taxonomy for the 21<sup>st</sup> Century. BISMis-2014; Edinburgh, Scotland. Defining Microbial Diversity in the Genomic Era, April 7-10th, 2014

Keynote: Microbial Genomic Taxonomy: A Look to the Future. Food Micro 2014, Nantes, France, 1-4 September.

Isolation of a Novel *Gammaproteobacteria*, *Fontimonas thermophila* gen. nov., sp. nov., and its Taxonomic Implications: Why should we care about Taxonomy? Southern Illinois University, Student seminar series, 22-24<sup>th</sup> March, 2012.

Building upon Molecular Inventories: Are Chemotaxonomic methods still relevant to taxonomy in the molecular era. OSU Department of Microbiology and Molecular Genetics. Sept 10<sup>th</sup> 2012.

Building upon Microbial Molecular Inventories: Maximizing Species Descriptive Criteria through the Support of Chemotaxonomic Biomarkers. 14th Conference in Genomics and Proteomics of Human Pathogens. "Exploration of Novel Technologies for Biomarker Discovery and Point-of Care Diagnostics" 23-24th June 2011. Health Protection Agency. Microbiology Services, Colindale, London.

Anaerobes: A Piece in the puzzle for alternative biofuels (2010). 10<sup>th</sup> Biennial Congress of the Anaerobe Society of the Americas held in Philadelphia July 7 - 10, 2010.

Building upon Molecular Inventories: the return of taxonomy. Forum for Bio-sustainability. Arkansas School for Mathematics, Sciences and the Arts, University of Arkansas. Oct 27<sup>th</sup>, 2010.

### **Presentations (most recent)**

A large number of presentations (60 plus) have been made to both national and international meetings in both oral and poster format. The most recent being:

Miller, S. (Author & Presenter), Hendry, M. (Author), King, J. (Author), Sankaranarayanan, K. (Author), Lawson, P. (Author) (2023). Regional American Society of Microbiology, "Novel Taxa with Bio-industrial Potential Isolated from Alpaca Fecal Material," ASM, Kansas City. (March 9, 2023). Oral Presentation, Conference.

Lawson, P. (Author & Presenter), Sankaranarayanan, K. (Author & Presenter) (2022). BISMis Live, "Genome inferred taxonomic analysis: beyond gene inventories," Bergey's International Society for Microbial Systematics, zoom presentation, international. (December 17, 2022). Oral Presentation, Workshop.

Lawson, P. (Author & Presenter). (2022). OU Women's Health Advocacy , "The Microbiome. What can it do for you?," OU Student Organizations, OU. (December 5, 2022). Oral Presentation, OU Women's Health Advocacy student meeting.

Lawson, P. (Author & Presenter), Sankaranarayanan, K. (Author), Anaerobe 2022, "A Revised Taxonomy of the Genus *Treponema* Delineating Commensal and Pathogenic Organisms," The 16th Biennial Congress of the Anaerobe Society of the Americas, Hyatt Regency Hotel, Seattle. (June 27, 2022). Oral Presentation, Conference.

Lawson, P., ASM Student Chapter, "From Farm Boy to Professor," OU. (November 2021). Oral Presentation.

Lawson, P. (Author) (2020) University of Technology, "Isolation and Identification of Lactic Acid Bacteria in Cow and Yak Milk and Traditional Dairy Products from Khatgal, Mongolia," Fulbright Program,, Cyprus. Lecture, Seminar.

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Lawson, P. (2019). Hee Haw for Health, "The Human Gut Microbiome. What can it do for you?," Oklahoma Donkey Dairy, Luther, OK. Lecture, invited lecture.

Fulton, S. (Author & Presenter), Tsolman, S. (Author), Warinner, C. (Author), Hendy, J. (Author), Rest, M. (Author), Kumar, S. (Author), Lawson, P. (Author), American Society of Microbiology, Microbe 2019, "Isolation and Identification of Lactic Acid Bacteria in Cow and Yak Milk and Traditional Dairy Products from Khatgal, Mongolia," American Society of Microbiology, San Francisco, CA. (June 23, 2019). Poster, Conference.

N. Patel, K. Sankaranarayanan, P. Lawson. "Investigating Genomic Tools for Polar Lipid Prediction." Bergey's International Society for Microbial Systematics. Pune, India. September 2016.

N. Patel, K. Sankaranarayanan, P. Lawson "In-Silico Analysis of Bacterial Polar Lipid Synthesis as a Tool for Chemotaxonomy." American Society for Microbiology. Boston, Massachusetts, June 2016.

Saavedra, L., Finegold, S., Lawson, P.A., 2016. Reclassification of *Clostridium cocleatum*, *Clostridium ramosum*, *Clostridium spiroforme* and *Clostridium saccharogumia* to a novel genus, *Flintia* gen. nov. Anaerobe 2016. Nashville, TN, July 11-14.

Saavedra, L., Finegold, S., Lawson, P.A., 2016. Reclassification of *Clostridium cocleatum*, *Clostridium ramosum*, *Clostridium spiroforme* and *Clostridium saccharogumia* to a novel genus, *Flintia* gen. nov. ASM Microbe 2016. Boston, MA, June 16-20

N. Patel, R. Tito, A. Obregón-Tito, O. Trujillo-Villaroel, L. Marin-Reyes, L. Troncoso-Corzo, E. Guija-Poma, C. Lewis Jr, P. Lawson "An Investigation of the Human Gut from Indigenous Peruvian Communities Yields Several Novel Bacterial Taxa." Chicago, Illinois. April 2015.

O'Neal, L., Tito, R., Obregón-Tito, A., Ozga, A., Polo, S., Lewis, C.M., Lawson, P.A. (2015) *Clostridium amazonense* sp. nov. an obligate anaerobic bacterium isolated from a remote Amazonian community in Peru. 115th General Meeting of the American Society for Microbiology. New Orleans Louisiana

Patel, N., O'Neal, L.L., Tito, R., Obregón-Tito, A.J., Trujillo-Villaroel, O., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis Jr., C.M., Lawson, P.A. "*Ezakiella peruensis* gen. nov., sp. nov. isolated from human fecal sample from a traditional community in Peru." Rowett-INRA (l'Institut National de la Recherche Agronomique (INRA) and Rowett Institute of Nutrition and Health). "From Sequence to Function" Aberdeen, Scotland. June 2014.

O'Neal, L., Patel, N., Tito, R., Obregón-Tito, A., Trujillo-Villaroel, O., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis, C.M., Lawson, P.A. (2014) Isolation of Novel Clostridia Species from an Amazonian community. 12th Biennial Congress of the Anaerobe Society of the Americas. Chicago, Illinois

Patel, N., O'Neal, L.L., Tito, R., Obregón-Tito, A.J., Trujillo-Villaroel, O., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis Jr., C.M., Lawson, P.A. "*Ezakiella peruensis* gen. nov., sp. nov. isolated from human fecal sample from a traditional community in Peru." ANAEROBE (Anaerobe Society of the Americas (ASA) and the Society for Microbial Ecology and Diseases). Chicago, Illinois. July 2014..

O'Neal, L.L., Patel, N., Tito, R., Obregón-Tito, A.J., Trujillo-Villaroel, O., Marin-Reyes, L., Troncoso-Corzo, L., Guija-Poma, E., Lewis Jr., C.M., Lawson, P.A. "Human Gastrointestinal Microbiome Of Indigenous Peruvian Communities," FEMS (Federation of European Microbiological Societies). Leipzig, Germany. July 21, 2013 (Poster presented by Paul A. Lawson)

## Awards and Honors

2018, 19, 20, 21. Outstanding Reviewer, IJSEM

2018 Fulbright Scholar

2012 Award for Best Poster. Microscopy & Microanalysis 2012, Phoenix, AZ.

Lawson, Paul A.  
2011 Excellence in Scientific Poster Presentation, Inaugural meeting of Bergey's International Society of Microbial Systematics, Beijing, China.  
2009 Inducted as a Fellow of the Australasian College of Biomedical Scientists.  
1991 Award for Best Poster Presentation. British Society for Dental Research, Newcastle, UK.

### **Leadership**

Fulbright Scholar, Fulbright Scholar Program. Feb-March spent at University of Technology Cyprus. (2019-2020).

### **Graduate Student Awards**

#### **Nikki Johnson Ph.D**

2011 Lois Pfiester Scholarship for Women in Science. Department of Microbiology and Plant Biology, OU.  
2011 American Ambassador and Master of Ceremonies for the 19th International Biohydrometallurgy Symposium. September 18-22. Changsha, China.  
2011-2012 Provost's Outstanding Graduate Teaching Assistant 2011-2012.  
2013. First prize Student Poster Award at Microscopy & Microanalysis, Phoenix, AZ. Obtained for advancing methods in biological electron microscopy.  
2013 The Timpano Award. Oklahoma Academy of Sciences.  
2014 Paul G. Risser Award for superior research in Microbiology. 2014. Department of Microbiology and Plant Biology, OU.

#### **Nisha Patel PhD**

2014 Outstanding Graduate Student Presentation Award, Oklahoma Collegiate Academy of Science Competition  
2014 Provost's Certificate of Distinction for Outstanding Graduate Assistant Teaching University of Oklahoma.  
2015 George L. and Cleo Cross Graduate Student Endowed Scholarship University of Oklahoma; Department of Microbiology & Plant Biology.  
2015 B. Russell Young Scientist Award for Best Oral Presentation Congress on Gastrointestinal Function  
2015 First Place Poster Presentation of Graduate Research, University of Oklahoma; Graduate College  
2015 Provost's Certificate of Distinction for Outstanding Graduate Assistant Teaching University of Oklahoma.  
2016 Outstanding Graduate Assistant Teaching, University of Oklahoma; Graduate Student.  
2017 George L. and Cleo Cross Graduate Student Endowed Scholarship. Department of Microbiology & Plant Biology.  
2017 Robert E. and Mary B. Sturgis Scholarship, University of Oklahoma; College of Arts & Sciences

#### **Lindsey O'Neal Ph.D**

2010 Department of Microbiology and Plant Biology Travel Grant  
2012 Lois Pfiester Women in Science Scholarship. Department of

Lawson, Paul A.  
Microbiology and Plant Biology, OU.  
2014 Harrison L. Chance Scholarship. Department of Microbiology and Plant Biology.

**Chris Marks Msc**

2011 Excellence in Scientific Poster Presentations. BISMis, China

**Nate Losey Msc**

2017 Harrison L. Chance Scholarship. Department of Microbiology and Plant Biology.

**Annie Doyle Msc**

2019 Kenneth & Joye Harwell Endowed Scholarship, OU.

**Shannon Fulton MSc**

2019 Robberson Conference Presentation Travel Grant. OU  
2020 Kenneth and Joy Harwell Scholarship. Department of Microbiology and Plant Biology, OU.  
2019 OU Graduate Student Senate Travel Grant.  
2020 OU David C. Steed Scholarship 2019-2020.

**RESEARCH SUPPORT.**

**Improving the recovery of yet-to-be-cultivated microorganisms from the human gut microbiome.**

Lawson, PA and Sankaranarayanan, K. Faculty Investment Program. \$15000. In revision.

**Improving the recovery of yet-to-be-cultivated microorganisms from the human gut microbiome**

Lawson, P.A. Anaerobe Systems May 2022 Sept 2023, \$32000.

**Microbial Ecologies of Indigenous Communities**

Lewis, C. M., (PI, 40% credit), Lawson, P. A., (Co-PI, 20% credit), Sankaranarayanan, K., (Co-PI, 20% credit), Warinner, C. G., (Co-PI, 20% credit), Sponsored by U.S. Department of Health and Human Services, National Institutes of Health, Federal, \$1,720,823. (September 15, 2016 - June 30, 2020).

**Hairloom Microbes. The History and Legacy of Ancient Dairying Bacteria.**

March 2017-2022. German Research Council. \$225,543.  
PI- Christina Warinner and Jessica Handy. Paul A. Lawson subcontract.

**Human Intestinal Microbial Ecologies of Indigenous Communities. R01GM089886-2 renewal**

Period: Sept 2016-June 2020.  
Amount: \$ 1.4 million  
Sponsor: NIH- R01  
PIs: P.A. Lawson, C. Lewis, K. Sankaranarayanan,

**Acquisition of High Performance Liquid Chromatography (HPLC) System and Lyophilizer to Characterize Key Biomarkers in Modern and Ancient Human Microbiomes**

Dec 2015-Dec 2016  
Amount: \$14865  
Sponsor: OU Research Council  
PI: P.A. Lawson, C. Warinner.

Lawson, Paul A.

**The recovery and characterization of a potentially beneficial gut microbe lost to industrialized dietary lifestyles.**

Period: Dec 2014-Dec 2015.

Amount: \$ 15,000

Sponsor: OU Research Council

PI: P.A. Lawson, K. Sankaranarayanan

**Human Intestinal Microbial Ecologies of Indigenous Communities**

Period: Jan 2011-June 2014.

Amount: \$ 922,152

Sponsor: NIH-R01

PI: P.A. Lawson, C. Lewis.

**Assessment of Corrosion under Controlled Conditions**

Period: May 2012-April 2013.

Amount: \$ 70,718.

Sponsor: OU Biocorrosion Center

PI: P.A. Lawson.

**Molecular identification and phylogenetic analysis of unique microorganisms from swine feces and manure storage pits.**

Period: February 2010-February 2014.

Amount: \$12,000.

Sponsor: USDA.

PI: Paul A. Lawson.

**Thermal and Geochemical Influences on Microbial Ecology at Hot Springs National Park, Ar.**

Period: June 2010- September 2011.

Amount: \$20000.

Sponsor: NPS CESU

PI: P.A. Lawson.

**Oklahoma Bioenergy Center: Isolation and characterization of novel microbial catalysts for direct fermentation of lignocellulose to ethanol. .**

Period: December 2007-February 2009.

Amount: \$294,000.

Sponsor: Oklahoma Bioenergy Center.

PIs: J.Zhou, H. Jiang, Z. He, M. McInerney, C. Hemme and **P.A. Lawson.**

**Indirect Fermentation of Biomass to Ethanol and Other Products.**

Period: February 2006-February 2010

Amount: \$287,000.

Sponsor: Oklahoma Bioenergy Center.

PIs: **P.A. Lawson** and R.S. Tanner.

Lawson, Paul A.

**Continuation of Biocorrosion Studies in Alaskan North Slope Pipelines.**

Period: November 2007-February 2009

Amount: \$188,000.

Sponsor: ConocoPhillips.

PI: **P.A. Lawson** and B. Stevenson

**Isolation and Identification of organisms responsible for “blown pack syndrome” in refrigerated meat.**

Period: January 2008-June 2008.

Amount: \$3000.

Sponsor: Tyson Foods.

PI: P.A. Lawson.

**Molecular identification and phylogenetic analysis of unique microorganisms from swine feces and manure storage pits.**

Period: February 2006-February 2009.

Amount: \$12,000.

Sponsor: USDA.

PI: Paul A. Lawson.

**INTERNAL RESEARCH AND TEACHING SUPPORT (competitive)**

OU Junior Faculty Summer Fellowship (2006). Gastrointestinal Microflora Studies in Children with Late-onset Autism. PI: Lawson. \$6,000.

AS Instructional Technology Grant (2011). \$13591. PI: Lawson. 6 Microscopes and Video System (Capstone Laboratory).

**TEACHING:**

**MBIO 5810. New Directions in Microbial Ecology**, Spring 2006, 1 credit hr.

**MBIO 4823. Pathogenic Microbiology & Immunology**, Fall 2007-2011, 3 credit hr.

**MBIO 4823. Pathogenic Microbiology & Infectious Disease**, Fall 2012-present

**Mbio 4893. Capstone in Microbiology**, Spring 2007-2014, 2021. 3 credit hr.

**MBIO 4810. President’s Dream Course: *Human Microbiome***. Spring 2013, 3 credit hr. This course explored the ecological principles on which the microbial community of the gastrointestinal tract is founded and the roles of model community members in maintaining microbiome stability and function to promote human health. Students examined the primary literature and discuss their findings with the course instructors, who are pioneers and leaders in the field. \$20,00 allocated from the Provosts Office.

**Mbio 4873/5673. Microbiomes and Microbial Systematics**. New Class Spring 2015, Class Spring 2016, Spring 2017; 3 credit hr

Lawson, Paul A.

**Mbio 4873/5673. Microbiomes: Health and Disease.** Summer 2022, 3 credit hr.

## **SERVICE**

2022. Technical Reviewer, AY2023-2024 Fulbright Egyptian Scholar Program  
2121. Systematics and Biodiversity Science (SBS) Cluster. Panel invitation for Dec 2021- Jan 2022.  
2021. Pre-med Interview committee member (16 interviews)  
2020. Pre-med Interview committee member (16 interviews)  
2020- present. Committee A member  
2019. Departmental Faculty Marshall/ Banner carrier, Convocation. (December 13, 2019).  
2019. Committee Chair, Faculty Search Committee (Microbiology Health).  
2018- Public Health Program of studies, Departmental Faculty Affiliate. (2018 - Present).  
2017. Appointed as Associate Editor to Human Microbiome Journal.  
2017- Committee Member, CAS health Initiative Committee.  
2017. Mars2020 Review Panel, Jet Propulsion Lab, NASA.  
2016. Member, Faculty Search Committee, Metabolomics.  
2016-2017-Chair Microbiology Section Oklahoma Academy of Sciences  
2016-18. Departmental Management Committee A.  
2005-2016. Departmental Scholarship Committee.  
2015-2016. Vice Chair Microbiology Section Oklahoma Academy of Sciences.  
2015. Osher Lifelong Learning Institute. Morning with the Professor. Farm Boy to Professor. March 2015.  
Lecture and article published in Norman Magazine, March 2015.  
2014. International Committee on Systematics of Prokaryotes: *Bifidobacterium*, *Lactobacillus* and Related Organisms.  
2013-2014. Organizing Committee. BISMIS-2014; Edinburgh, Scotland. Defining Microbial Diversity in the Genomic Era, April 7-10<sup>th</sup>, 2014.  
2013-Reviewer and Editorial Board of Frontiers in Phylogenetics, Phylogenomics, and Systematics, Frontiers in Ecology and Evolution. Organizing Committee.  
2012-present. International Committee on Systematics of Prokaryotes:-*Clostridium* and Related Taxa Sub Committee, 2012.  
2012-2019. Editor-in-Chief, Bergey's International Society for Microbial Systematics Bulletin. July.  
2012-Faculty Member Ecology and Evolutionary Biology. (2012 - Present).  
2012. Leadership Scholars Event Coffee with the Professor. Nov 15.  
2011. Member, Faculty Search Committee Plant Molecular Microbiologist.  
2011-2020. Departmental Space Committee.  
2011. Lawson, P.A. From Farm Boy to Professor. OU ASM Student Chapter. Seminar Series.  
2010.Associate Editor, Bergey's International Society for Microbial Systematics Bulletin.  
2010-present. ASM Student Chapter Advisor.  
2009. Inducted as a Fellow of the Australasian College of Biomedical Scientists.  
2008-2011. Departmental Speakers Committee.  
2007. Member, Faculty Search Committee Molecular Microbiologist.  
2006. Member, Faculty Search Committee, Molecular Biologist.

## **AD HOC REVIEWER FOR :-**

2006. *Ad hoc* reviewer US State Department grant proposals.  
International Journal of Systematic and Evolutionary Microbiology.  
Anaerobe.  
Journal of Applied Microbiology.  
The Veterinary Journal.  
Current Microbiology.  
Applied and Environmental Microbiology.



Lawson, Paul A.  
Bioremediation.  
Emerging Infectious Diseases.  
International Biodeterioration & Biodegradation.  
Journal of Clinical Microbiology.  
Archives of Microbiology  
Memórias do Instituto Oswaldo Cruz  
Environmental Science & Technology  
Antonie van Leeuwenhoek  
PLoS One  
Frontiers in Microbiology  
Scientific Reports  
Standards in Genomic Sciences  
Journal of Basic Microbiology  
Journal of Veterinary Medicine  
Systematic and Applied Microbiology  
Microbiology Open

#### **PROFESSIONAL SOCIETIES AND ACTIVITIES**

Member of the American Society of Microbiology, 1995-present.  
Member of the Society of General Microbiology, 2000- present.  
Member Group Committee of the SGM Systematics and Evolution Group. 2004-2008  
Member of the Anaerobe Society of the Americas, 2006-present  
Member of the Society of Anaerobic Microbiology, 2011-present.  
Chartered Member of the Bergey's International Society for Microbial Systematics (BISMIS), 2010-present.

#### **POSTDOCTORAL FELLOWS - MENTORING**

**Dr. Toby Allen**, March 2008- Dec 2010.  
**Dr. Mathew Caldwell**, February 2008- Dec 2010.  
**Dr. Mathew Caldwell**, August 2016-2019.

#### **GRADUATE STUDENTS (LAWSON LAB)**

##### **Graduated Students:**

**Annie Doyle**, MSc 2019-2020.  
**Shannon Fulton**, MSc 2018-2020.  
**Nisha Patel**, Ph.D 2012-2018  
**Liz Saavedra**, MSc, 2015-2018.  
**Lindsey O'Neal** Ph.D, 2011-2017.  
**Crystal C. Johnson**. Ph.D, 2008-2014. Marie Currie Scholarship (2016).  
**Heather Drilling**, Ph.D , 2008-2015. (Co-chair with Dr. Bradley Stevenson).  
**Matthew Kowalski**, MSc student 2015-2017.  
**Chris Marks**, M.Sc. 2008-2011.  
**Nathan Nosey**, MSc, 2009-2012.

#### **GRADUATE STUDENTS ADVISED AS A COMMITTEE MEMBER**

Lawson, Paul A.

**Past:**

**Andrew Fabich**, Ph.D student, Department of Botany and Microbiology. 2006-2008.

**Matthew Maune**, Ph.D student, Department of Botany and Microbiology 2006-2009.

**Victoria Parisi**, Ph.D student, Department of Botany and Microbiology. 2006-2010.

**Joyce Barksdale**, Ph.D student, Department of Botany and Microbiology. 2006-2011

**Scott Maddox**, Ph.D student, Department of Botany and Microbiology. 2006-2011

**Catherine Isom**, Ph.D student, Department of Botany and Microbiology. 2007-2011

**Andrew Ozga**, Ph.D student, Department of Anthropology. 2009-2011

**Jessica Meador**, Masters student, Department of Botany and Microbiology. 2008-2012

**Nyambayar, Batbayar**, Ph.D student, Department of Microbiology and Plant Biology. 2009-2013.

**Chris Lyles**, Ph.D student, Department of Department of Microbiology and Plant Biology. 2007-2013.

**Micheal Ukpong**, Ph.D student, Department of Department of Microbiology and Plant Biology. 2008-2014

**Tyler Shadid**, Masters student, Department of Microbiology and Plant Biology. 2012-2015

**Delong Zhao**, Ph.D student, Department of Microbiology and Plant Biology. 2009-2014

**Lauren Cleeland**, Ph.D student, Department of Anthropology. 2007-2015

**Renxing Liang**, Ph.D student, Department of Microbiology and Plant Biology. 2011-2015

**Wenbin Liu**, Ph.D student, Department of Microbiology and Plant Biology. 2009-2016

**Ming Xie**, Ph.D student, Department of Microbiology and Plant Biology. 2009-2017

**Tao Xu**, Ph.D student, Department of Microbiology and Plant Biology. 2012-2017

**Ali Mann**, Ph.D student, Department of Anthropology. 2014-2018

**Anjumala Herath**, Ph.D student, Department of Microbiology and Plant Biology. 2012-2019

**Rebecca Eden**, Ph.D student, Department of Anthropology. 2014-2015

**Christine Woelfel-Monsivais**, Masters student, Department of Microbiology and Plant Biology. 2017-2019.

**Brian Bill**, Ph.D student, Department of Microbiology and Plant Biology. 2017-2019. **Rita Austin**, Ph.D student, Department of Anthropology. 2016-2020.

**James Floyd**, Ph.D student, Department of Microbiology and Plant Biology. 2019-2020

**Colin Bates**, Ph.D student, Department of Microbiology and Plant Biology. 2019-2022

**Present:**

**Lawson Graduate Students.**

**Samual Miller**, Ph.D student, Department of Microbiology and Plant Biology. 2019-

**Jacobey King**, Masters student, Department of Microbiology and Plant Biology. 2022.

**Committee Member.**

**Isam Madi**, Ph.D student, Department of Microbiology and Plant Biology. 2020-present.

**Ensley, Heather**, Ph.D student, Performing Arts. 2019-

**Aanuoluwa Adekoya**, Department of Microbiology and Plant Biology. 2020-present.

**UNDERGRADUATE INTERACTIONS** (in addition to teaching and academic advising)

2012. Leadership Scholars Event: Coffee with the Professor Coffee. Nov 15.

2015. Elected as Chairman of Section H. Microbiology, Oklahoma Academy of Sciences.

2010-present. ASM Student Chapter Advisor.

2022. OU Women's Health Advocacy Student Meeting. "The Microbiome. What Can It Do For You?," Oral Presentation,

**Undergraduate students (Independent Study and Honors Students)**

Undergraduate opportunities are a very important part of my teaching and research programs with a number of students enrolled each semester for a mix of Independent Study and Honors Research.

Lawson, Paul A.

**Each semester I accept between 2-4 undergraduates into my lab to undertake mentored independent research. Therefore since 2005 I have mentored a very large number of undergraduates.**

**Mentored Research Experience 3440**

**Independent Study 3990**

**Honors Research 3980 (Honors Research)**

**Independent Study 4990**

**Capstone Senior Thesis Mbio 4950**

**Special Studies 5990**

**Investigations in Microbiology 5620**

**Research Experience for High School Students 2017**

Dillion Folkner, Parker Smith. (Edmond High School).

***Intel International Science & Engineering Fair***

Mentored high school student Jordon Cotton on experimental design and execution for Intel International Science and Engineering Fair. Student won second place at the state level & first places at the District and Regional levels.