

# Travis Brady Nielsen

201 Del Sol Dr #338, San Diego, CA 92108 | (562) 544-0081 | [travis.nielsen@gmail.com](mailto:travis.nielsen@gmail.com) | [TravisNielsen.com](http://TravisNielsen.com)

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## TRAINING & EDUCATION

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<b>Post-Doctoral Research Fellowship</b> <i>University of California San Diego, School of Medicine</i>	( <i>anticipated</i> ) June 2030
<b>Fellowship, Infectious Diseases</b> <i>University of California San Diego, School of Medicine</i>	( <i>anticipated</i> ) June 2027
<b>Residency, Internal Medicine</b> <i>University of California San Diego, School of Medicine</i>	( <i>anticipated</i> ) June 2026
<b>Doctor of Medicine, M.D.</b> <i>Loyola University Chicago, Stritch School of Medicine</i>	May 2023
<b>Master's in Public Health, M.P.H. in Policy &amp; Management</b> <i>Loyola University Chicago, Parkinson School of Health Sciences</i>	May 2023
<b>Doctor of Philosophy, Ph.D. in Medical Biology</b> <i>University of Southern California, Keck School of Medicine</i>	May 2018
<b>Bachelor of Arts, B.A. in Chemistry</b> <i>University of California Riverside, College of Natural &amp; Agricultural Sciences</i>	Dec 2012

## EMPLOYMENT

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Research Consultant at University of Southern California	Jun 2018 – Present
<ul style="list-style-type: none"><li>• Remote management of two translational research projects in an academic research laboratory at the University of Southern California.</li><li>• One project is focused on developing monoclonal antibodies against the Gram-negative bacterium <i>Acinetobacter baumannii</i> for use as adjunct therapy in conjunction with standard antibiotic therapy.</li><li>• Another project is focused on developing an adjuvant-only vaccine for prophylaxis against nosocomial infections.</li><li>• Responsibilities include experimental design, data analysis/presentation, manuscript writing/preparation, and grant writing/revising.</li></ul>	
Research Scientist at Loyola University Chicago	Feb 2019 – Aug 2019
<ul style="list-style-type: none"><li>• Worked with Dr. Lara Dugas on the Modeling the Epidemiological Transition Study of the Microbiome project (METS Microbiome project).</li><li>• This was a prospective longitudinal cohort study that took place across five countries, including USA (Chicago, IL), Ghana, Jamaica, Seychelles, and South Africa.</li><li>• The goal was to investigate whether there is a link between metabolic syndrome, gut microbiota, and country of origin among people of African ancestry.</li></ul>	

- Responsibilities included participant enrollment, data collection/management, and management of daily clinical operations.

Research Scientist at University of Southern California

Jun 2015 – May 2018

- Worked on various projects in an academic research laboratory at the University of Southern California as a PhD graduate student.
- Projects focused on the immunology of host defense against highly resistant infections.
- Responsibilities included experimental design, BSL2+ pathogen manipulation, laboratory animal handling, data analysis/presentation, manuscript preparation, and grant writing.

Research Scientist at Biological Anti-Infective Medicines

Jun 2014 – May 2018

- This small business venture was founded to develop antibodies directed at the Gram-negative bacterium *Acinetobacter baumannii*.
- Responsibilities included experimental design, BSL2+ pathogen manipulation, laboratory animal handling, data analysis/presentation, manuscript preparation, and grant writing.

Research Scientist at The Lundquist Institute

Mar 2013 – May 2015

- Assisting in various laboratory projects at an academic research facility related to immunology of host defense against highly antimicrobial-resistant pathogens.
- Responsibilities included experimental design, BSL2+ pathogen manipulation, laboratory animal handling, data analysis/presentation, manuscript preparation, and grant writing.

## **PUBLICATIONS**

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29. Spellberg B, Gilberg DN, Baym M, Bearman G, Boyles T, Casadevall A, Forrest GN, Freling S, Ghanem B, Hamilton F, Luna B, Moore J, Musher DM, **Nielsen T**, Nori P, Phillips MC, Pirofski LA, Shorr AF, Tong SYC, Lee TC, McDonald EG. Sustainable solutions to the continuous threat of antimicrobial resistance. *Health Affairs Scholar*. 2025 Jan 24;3(2):qxaf012. PMID [39916975](#); PMCID [PMC11798182](#); DOI [10.1093/haschl/qxaf012](#).
28. Rojas LJ, **Nielsen T**, Pantapalangkoor P, Taracila MA, Introvigne ML, Sharma R, Yeshwante S, Mojica MF, Papp-Wallace KM, Hujer AM, Prati F, Caselli E, Spellberg B, Rather PN, Rao GG, Bonomo RA. Restoring cefepime activity against multidrug-resistant KPC-producing *Klebsiella pneumoniae* by combination with boronic acid inhibitors, MB076 and S02030. *Antimicrobial Agents and Chemotherapy*. 2025 Jan 28:e0096424. PMID [39873501](#); PMCID *unavailable*; DOI [10.1128/aac.00964-24](#).
27. Spellberg B, **Nielsen T**, Phillips MC, Ghanem B, Boyles T, Jegorović B, Footer B, Mah JK, Leiu A, Scott J, Wald-Dickler N, Lee TC, McDonald EG. Revisiting diagnostics: erythrocyte sedimentation rate and C-reactive protein: it is time to stop the zombie tests. *Clinical Microbiology and Infection*. 2025 Jan;31(1):1-4. PMID [39209263](#), PMCID *unavailable*; DOI [10.1016/j.cmi.2024.08.017](#).

26. Yan J, **Nielsen T**, Lu P, Talyansky Y, Slarve M, Reza H, Novakovic B, Netea MG, Keller AE, Warren T, DiGiandomenico A, Sellman BR, Luna BM, Spellberg B. A protein-free vaccine stimulates innate immunity and protects against nosocomial pathogens. *Science Translational Medicine*. 2023 Oct 4;15(716):eadf9556.  
PMID [37792959](#); PMCID [PMC10947341](#); DOI [10.1126/scitranslmed.adf9556](#).
25. **Nielsen T**, Yan J, Slarve M, Li R, Junge J, Luna B, Wilkinson I, Yerramalla U, Spellberg B. Development of a Bispecific Antibody Targeting Clinical Isolates of *Acinetobacter baumannii*. *The Journal of Infectious Diseases*. 2023 Apr 26;227(9):1042-1049.  
PMID [36617220](#); PMCID [PMC10319980](#); DOI [10.1093/infdis/jiac499](#).
24. **Nielsen T**, Santarossa M, Probst B, Labuszewski L, Lopez J, Barsanti-Sekhar M, Albarillo F. Introducing antimicrobial stewardship to the outpatient clinics of a suburban academic health system. *Antimicrobial Stewardship & Healthcare Epidemiology*. 2022 Jan 01; 2(1):e9.  
PMID [35899218](#); PMCID [PMC9319114](#); DOI [10.1017/ash.2021.228](#).
23. **Nielsen T**, Yan J, Luna B, Talyansky Y, Slarve M, Bonomo R, Spellberg B. Monoclonal Antibody Requires Immunomodulation for Efficacy Against *Acinetobacter baumannii* Infection. *The Journal of Infectious Diseases*. 2021 Dec 15;224(12):2133-2147.  
PMID [34036366](#); PMCID [PMC8672769](#); DOI [10.1093/infdis/jiab265](#).
22. **Nielsen T**, Yan J, Slarve M, Lu P, Li R, Ruiz J, Lee B, Burk E, Talyansky Y, Oelschlaeger P, Hurth K, Win W, Luna B, Bonomo R, Spellberg B. Monoclonal Antibody Therapy against *Acinetobacter baumannii*. *Infection and Immunity*. 2021 Sep 16;89(10):e0016221.  
PMID [34310884](#); PMCID [PMC8445169](#); DOI [10.1128/IAI.00162-21](#).
21. Spellberg B, **Nielsen T**, Casadevall A. Antibodies, Immunity, and COVID-19. *JAMA Internal Medicine*. 2021 Apr 1;181(4):460-462.  
PMID [33231673](#); PMCID [PMC8371694](#); DOI [10.1001/jamainternmed.2020.7986](#).
20. Talyansky Y, **Nielsen T**, Yan J, Carlino-MacDonald U, Di Venanzio G, Chakravorty S, Ulhaq A, Feldman M, Russo T, Vinogradov E, Luna B, Wright M, Adams M, Spellberg B. Capsule carbohydrate structure determines virulence in *Acinetobacter baumannii*. *PLoS Pathogens*. 2021 Feb 2;17(2):e1009291.  
PMID [33529209](#); PMCID [PMC7880449](#); DOI [10.1371/journal.ppat.1009291](#).
19. Luna B, Trebosc V, Lee B, Bakowski M, Ulhaq A, Yan J, Lu P, Cheng J, **Nielsen T**, Lim J, Ketphan W, Eoh H, McNamara C, Skandalis N, She R, Kemmer C, Lociuro S, Dale G E, Spellberg B. A nutrient-limited screen unmasks rifabutin hyperactivity for extensively drug-resistant *Acinetobacter baumannii*. *Nature Microbiology*. 2020 Sep 1;5(9):1134-1143.  
PMID: [32514072](#); PMCID [PMC7483275](#); DOI [10.1038/s41564-020-0737-6](#).
18. Spellberg B, **Nielsen T**, Gilbert D, Shorr A, Brass E. Ensuring Sustainability of Needed Antibiotics: Aiming for the DART Board. *Annals of Internal Medicine*. 2019 Oct 15;171(8):580-582.  
PMID [31590184](#); PMCID [PMC7296826](#); DOI [10.7326/M19-1893](#).
17. Luna B, Ershova K, Yan J, Ulhaq A, **Nielsen T**, Hsieh S, Pantapalangkoor P, Vanscoy B, Ambrose P, Rudin S, Hujer K, Bonomo R, Actis L, Skaar E, Spellberg B. Adjunctive Transferrin to Reduce the Emergence of Antibiotic Resistance in Gram-negative Bacteria. *Journal of Antimicrobial Chemotherapy*. 2019 Sep 1;74(9):2631-2639.  
PMID [31170282](#); PMCID [PMC6736376](#); DOI [10.1093/jac/dkz225](#).
16. **Nielsen T**, Brass E, Gilbert D, Bartlett J, Spellberg B. Sustainable Discovery and Development of Antibiotics — Is a Nonprofit Approach the Future? *The New England Journal of Medicine*. 2019 Aug 8;381(6):503-505.  
PMID: [31216396](#); PMCID [PMC6697094](#); DOI [10.1056/NEJMp1905589](#).

15. Luna B, Yan J, Reyna Z, Moon E, **Nielsen T**, Reza H, Lu P, Bonomo R, Louie A, Drusano G, Bulitta J, She R, Spellberg B. Natural history of *Acinetobacter baumannii* infection in mice. *PLOS One*. 2019;14(7):e0219824.  
PMID [31318907](#); PMCID [PMC6638954](#); DOI [10.1371/journal.pone.0219824](#).
14. Luna B, **Nielsen T**, Cheng B, Pantapalangkoor P, Yan J, Shaohui Yin, Zhao F, Boyle-Vavra S, Bruhn K, Montgomery C, Spellberg B, Daum R. Vaccines targeting *Staphylococcus aureus* skin and bloodstream infections require different composition. *PLOS One*. 2019;14(6):e0217439.  
PMID [31181086](#); PMCID [PMC6557488](#); DOI [10.1371/journal.pone.0217439](#).
13. Ambrose P G, VanScoy B D, Luna B M, Yan J, Ulhaq A, **Nielsen T**, Rudin S, Huger K, Bonomo, Actis L, Skaar E, Spellberg B. Apotransferrin in Combination with Ciprofloxacin Slows Bacterial Replication, Prevents Resistance Amplification, and Increases Antimicrobial Regimen Effect. *Antimicrobial Agents & Chemotherapy*. 2019 May;63(5).  
PMID [30782989](#); PMCID [PMC6496049](#); DOI [10.1128/AAC.00112-19](#).
12. Choi Y J, Kim S, Choi Y, Nielsen T, Yan J, Lu A, Ruan J, Lee H R, Wu H, Spellberg B, Jung J. Publisher Correction: SERPINB1-mediated checkpoint of inflammatory caspase activation. *Nature Immunology*. 2019 May;20(5):664.  
PMID [30846880](#); PMCID [PMC9045526](#); DOI [10.1038/s41590-019-0361-x](#).
11. Choi Y J, Kim S, Choi Y, **Nielsen T**, Yan J, Lu A, Ruan J, Lee H R, Wu H, Spellberg B, Jung J. SERPINB1-mediated checkpoint of inflammatory caspase activation. *Nature Immunology*. 2019 Mar;20(3):276-287.  
PMID [30692621](#); PMCID [PMC6450391](#); DOI [10.1038/s41590-018-0303-z](#).
10. **Nielsen T**, Yan J, Luna B, Spellberg B. Murine Oropharyngeal Aspiration Model of Ventilator-associated and Hospital-acquired Bacterial Pneumonia. *Journal of Visualized Experiments*. 2018 Jun 28;(136).  
PMID [30010650](#); PMCID [PMC6102004](#); DOI [10.3791/57672](#).
9. **Nielsen T**, Pantapalangkoor P, Yan J, Luna B, Dekitani K, Bruhn K, Tan B, Junus J, Bonomo R, Schmidt A, Everson M, Duncanson F, Doherty T, Lin L, Spellberg B. Diabetes Exacerbates Infection via Hyperinflammation by Signaling through TLR4 and RAGE. *mBio*. 2017 Aug 22;8(4).  
PMID [28830942](#); PMCID [PMC5565964](#); DOI [10.1128/mBio.00818-17](#).
8. **Nielsen T**, Pantapalangkoor P, Luna B, Bruhn K, Yan J, Dekitani K, Hsieh S, Yeshoua B, Pascual B, Huger K, Domitrovic T, Bonomo R, Russo T, Lesczyniecka M, Schneider T, Spellberg B. Monoclonal Antibody Protects against *Acinetobacter baumannii* Infection by Enhancing Bacterial Clearance and Evading Sepsis. *The Journal of Infectious Diseases*. 2017 Aug 15;216(4):489-501.  
PMID [28931235](#); PMCID [PMC5853763](#); DOI [10.1093/infdis/jix315](#).
7. Cheng B, **Nielsen T**, Pantapalangkoor P, Zhao F, Lee J, Montgomery C, Luna B, Spellberg B, Daum R. Evaluation of serotypes 5 and 8 capsular polysaccharides in protection against *Staphylococcus aureus* in murine models of infection. *Human Vaccines & Immunotherapeutics*. 2017 Jul 3;13(7):1609-1614.  
PMID [28422567](#); PMCID [PMC5512765](#); DOI [10.1080/21645515.2017.1304334](#).
6. Luna B, Ulhaq A, Yan J, Pantapalangkoor P, **Nielsen T**, Davies B, Actis L, Spellberg B. Selectable Markers for Use in Genetic Manipulation of Extensively Drug-Resistant (XDR) *Acinetobacter baumannii* HUMC1. *mSphere*. 2017 Mar-Apr;2(2).  
PMID [28497114](#); PMCID [PMC5422034](#); DOI [10.1128/mSphere.00140-17](#).
5. Wong D, **Nielsen T**, Bonomo R, Pantapalangkoor P, Luna B, Spellberg B. Clinical and Pathophysiological Overview of *Acinetobacter* Infections: A Century of Challenges.

- Clinical Microbiology Reviews*. 2017 Jan;30(1):409-447.  
PMID [27974412](#); PMCID [PMC5217799](#); DOI [10.1128/CMR.00058-16](#).
4. Bruhn K, Dekitani K, **Nielsen T**, Pantapalangkoor P, Spellberg B. Ly6G-mediated depletion of neutrophils is dependent on macrophages. *Results in Immunology*. 2016;6:5-7.  
PMID [26870635](#); PMCID [PMC4711394](#); DOI [10.1016/j.rinim.2015.12.001](#).
  3. **Nielsen T**, Bruhn K, Pantapalangkoor P, Junus J, Spellberg B. Cryopreservation of virulent *Acinetobacter baumannii* to reduce variability of in vivo studies. *BMC Microbiology*. 2015 Nov 2;15:252.  
PMID: [26526621](#); PMCID [PMC4630970](#); DOI [10.1186/s12866-015-0580-8](#).
  2. Bruhn K, Pantapalangkoor P, **Nielsen T**, Tan B, Junus J, Hujer K, Wright M, Bonomo R, Adams M, Chen W, Spellberg B. Host fate is rapidly determined by innate effector-microbial interactions during *Acinetobacter baumannii* bacteremia. *The Journal of Infectious Diseases*. 2015 Apr 15;211(8):1296-305.  
PMID [25378635](#); PMCID [PMC4447835](#); DOI [10.1093/infdis/jiu593](#).
  1. Lin L, Pantapalangkoor P, Tan B, Bruhn K, Ho T, **Nielsen T**, Skaar E, Zhang Y, Bai R, Wang A, Doherty T, Spellberg B. Transferrin iron starvation therapy for lethal bacterial and fungal infections. *The Journal of Infectious Diseases*. 2014 Jul 15;210(2):254-64.  
PMID: [24446527](#); PMCID [PMC4092247](#); DOI [10.1093/infdis/jiu049](#).

## PRESENTATIONS

National Meetings		
Poster	American Public Health Association Annual Meeting 2022 Boston, MA <i>Helping High Schoolers "LEAP" into the Field of Public Health with a Pre-Prepared Program Plan</i> Stuck A, Nielsen T	07 Nov 2022
Poster	American Society for Microbiology Microbe 2022 Washington, D.C. <i>Efficacy of Boronic Acid Transition State Analogs S02030 and MB_076 as Potent Inhibitors of KPC-2 <math>\beta</math>-Lactamases: Microbiological and Efficacy Analyses</i> Rojas L*, <b>Nielsen T</b> *, Yan J, Taracila M, Papp-Wallace K, Mojica M, Hujer A, Introvigne M, Prati F, Caselli E, Luna B, Spellberg B, Rather P, Bonomo R.	13 Jun 2022
Poster	Infectious Diseases Society of America IDWeek 2020 Virtual Event <i>Implementing an Antimicrobial Stewardship Program in the Outpatient Setting</i> <b>Nielsen T</b> , Santarossa M, Probst B, Labuszewski L, Lopez J, Barsanti-Sekhar M, Albarillo F	21 Oct 2020
Oral	Infectious Diseases Society of America IDWeek 2019 Washington D.C. <i>Inflammation and Innate Effectors in Passive Immunization for <i>A. baumannii</i> Infections</i> <b>Nielsen T</b> , Yan J, Luna B, Talyansky Y, Bonomo R, Spellberg B	04 Oct 2019

Oral	American Society for Microbiology Microbe 2019 San Francisco, CA <i>Sustainable Model for Antibiotic Development</i> <b>Nielsen T</b> , Spellberg B, Gilbert D, Bartlett J, Brass E	23 Jun 2019
Poster	American Society for Microbiology Microbe 2019 San Francisco, CA <i>Sustainable Model for Antibiotic Development</i> <b>Nielsen T</b> , Spellberg B, Gilbert D, Bartlett J, Brass E	23 Jun 2019
Poster	American Society for Microbiology Microbe 2019 San Francisco, CA <i>Optimization of an Adjuvant-Only Vaccine as a Horizontal Infection-Prevention Strategy</i> Yan J, <b>Nielsen T</b> , Luna B, Spellberg B	24 Jun 2019
Poster	American Society for Microbiology Microbe 2019 San Francisco, CA Disruption of the Capsule Locus Gene <i>gtr6</i> in <i>Acinetobacter baumannii</i> Enhances Virulence Talyansky Y, Yan J, <b>Nielsen T</b> , Carlino-Macdonald U, Luna B, Russo T, Spellberg B	24 Jun 2019
Poster	American Society for Microbiology Microbe 2019 San Francisco, CA <i>Natural History of Acinetobacter baumannii Infections in Mice</i> Reyna Z, Yan J, Moon E, <b>Nielsen T</b> , Reza H, Lu P, Bonomo R, Louie A, Drusano G, Bulitta J, She R, Spellberg B, Luna B	24 Jun 2019
Poster	American Society for Microbiology Microbe 2018 Atlanta, GA <i>Polyvalent Adjuvant Combination to Prevent Hospital-Acquired Infections</i> <b>Nielsen T</b> , Luna B, Yan J, Pantapalangkoor P, Spellberg B	09 Jun 2018
Poster	American Society for Microbiology Microbe 2017 New Orleans, LA <i>Cefepime and S02030—A Novel Boronic Acid Transition-State Inhibitor (BATSI)—Protects against Bacteremia by KPC-Producing Klebsiella pneumoniae</i> Rojas L, <b>Nielsen T</b> , Pantapalangkoor P, Taracila M, Van Den Akker F, Papp-Wallace K, Prati F, Caselli E, Spellberg B, Bonomo R	03 Jun 2017
Poster	American Society for Microbiology Conference on Antibacterial Development Washington, D.C. <i>Monoclonal Antibody Protects Against A. baumannii Infection by Enhancing Bacterial Clearance and Evading Sepsis</i> <b>Nielsen T</b> , Pantapalangkoor P, Luna B, Bruhn K, Yan J, Dekitani K, Hsieh S, Hujer K, Domitrovic T, Bonomo R, Russo T, Spellberg B	12 Dec 2016

Poster	American Society for Microbiology Conference on Antibacterial Development Washington, D.C. <i>Recombinant Human Transferrin (rh-transferrin) Suppresses the Emergence of Antibiotic Resistance as an Adjunct to Ciprofloxacin Against Gram-Negative Pathogens</i> Luna B, Ershova K, Hsieh S, Pantapalangkoor P, Yan J, Ulhaq A, <b>Nielsen T</b> , Actis L, Bonomo R, VanScoy B, Ambrose P, Spellberg B	12 Dec 2016
Poster	Infectious Diseases Society of America IDWeek 2016 New Orleans, LA <i>A Change in Paradigm: Diabetes Exacerbates Infection by Hyperinflammation, Not Immunosuppression</i> <b>Nielsen T</b> , Pantapalangkoor P, Luna B, Dekitani K, Bruhn K, Tan B, Junus J, Bonomo R, Schmidt A, Doherty T, Lin L, Spellberg B	30 Oct 2016
Regional and Local Conferences		
Oral	Loyola University Chicago Department of Public Health Sciences Grand Rounds Chicago, IL <i>L.E.A.P - Loyola Educating About Public Health</i> <b>Nielsen T</b> , Stuck A	27 Mar 2022
Poster	Loyola University Chicago St. Albert's Day Maywood, IL <i>Antimicrobial Stewardship in the Outpatient Setting</i> <b>Nielsen T</b> , Santarossa M, Probst B, Labuszewski L, Lopez J, Barsanti-Sekhar M, Albarillo F	04 Nov 2021
Poster	Illinois Department of Public Health Illinois Summit on Antimicrobial Stewardship Virtual Event <i>Introducing Antimicrobial Stewardship to the Outpatient Setting</i> <b>Nielsen T</b> , Santarossa M, Probst B, Labuszewski L, Lopez J, Barsanti-Sekhar M, Albarillo F	13 Jul 2021
Oral	Loyola University Chicago Department of Microbiology & Immunology Work in-Progress Seminar Maywood, IL <i>Anti-A. baumannii MAbs</i> <b>Nielsen T</b>	21 May 2021
Oral	Loyola University Health System Antibiotic Stewardship Bimonthly Meeting Virtual Event <i>Outpatient Expansion of Antimicrobial Stewardship</i> <b>Nielsen T</b> , Albarillo F	18 Nov 2020

Oral	Loyola University Chicago Department of Microbiology & Immunology Work in-Progress Seminar Maywood, IL <i>Sustainable Model for Antibiotic Development</i> <b>Nielsen T</b>	12 Jul 2019
Oral	University of Southern California Department of Microbiology & Immunology Work in-Progress Seminar Los Angeles, CA <i>Diabetes Exacerbates Infections via Hyperinflammation</i> <b>Nielsen T</b>	08 Nov 2017
Poster	American Chemical Society Southern California Research Conference Los Angeles, CA <i>Combining Antibacterial Antibodies to Enhance Opsonophagocytosis of Acinetobacter baumannii</i> Yeshoua B, <b>Nielsen T</b> , Pascual B, Spellberg B	29 Apr 2017
Oral	University of Southern California Protein Chemistry Research Symposium Los Angeles, CA <i>Mutations Outside the Complementarity-Determining Regions of Antibodies</i> <b>Nielsen T</b> , Ganesan S	09 Mar 2017
Poster	Great Minds in STEM Anaheim, CA <i>Murine IgG1 Antibody Enhances Opsonophagocytosis Better than IgG3 Isotype</i> Pascual B, <b>Nielsen T</b>	08 Oct 2016
Oral	TrojanVision (USC Student TV) Los Angeles, CA <i>Televised interview about the state of infectious disease research at USC</i> Spellberg B, <b>Nielsen T</b> , Yeshoua B	19 Sep 2016
Oral	University of Southern California Microbiology at the Host and Microbe Interface Los Angeles, CA <i>Paradigm Shift: Diabetes &amp; Infection</i> <b>Nielsen T</b>	24 May 2016

## PATENTS

Bispecific antibody targeting clinical isolates of <i>Acinetobacter baumannii</i> Spellberg B, <b>Nielsen T</b> , Luna B, Yan J; US Patent Application #63/347,685	Jun 2022
Composition & methods of multi-adjuvant prophylaxis for preventing infections Spellberg B, <b>Nielsen T</b> , Luna B; Int'l. Patent App. #PCT/US2018/058045	Nov 2020
Multi-adjuvant only approach to prophylaxis for preventing infections Spellberg B, <b>Nielsen T</b> , Luna B; US Patent Application #62/578,848	Oct 2017
Antibody binding of agents that bind <i>A. baumannii</i> and uses thereof	Jul 2015



Spellberg B, Bruhn K, **Nielsen T**; US Patent Application #62/192,029  
 OmpA epitope compositions and methods of treating *A. baumannii* infections Nov 2013  
 Spellberg B, Bruhn K, **Nielsen T**; US Patent Application #61/902,080

## **VOLUNTEER EXPERIENCE**

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Peer Reviewing, *Ad Hoc* ([link to Publons profile](#))

- *ACS Infectious Diseases* since Jul 2022
- *Journal of Clinical Medicine* since Apr 2022
- *BMC Microbiology* since Aug 2021
- *AHRQ (Agency for Healthcare Research and Quality)* since Jun 2021
- *Infection and Drug Resistance* since Nov 2020
- *Journal of Clinical Epidemiology* since Aug 2020
- *Journal of Infectious Diseases* since Jul 2019
- *PLoS One* since Nov 2018
- *Clinical Microbiology Reviews* since Apr 2018

Antimicrobial Stewardship Program (Loyola University Medical Center) 2021 – 2023

- First student to serve as a Committee Member

Loyola University Public Health Association (Loyola) 2018 – 2023

- Founder & Past President
- Graduate student organization established at Loyola University Chicago in 2018 to help bring a sense of community to the graduate students in the Parkinson School of Health Sciences and Public Health
- BSPH-MPH Mentoring Program (undergraduate students from Loyola University Chicago who are interested in public health are paired with a graduate student mentor from Loyola's Master of Public Health program for academic and career guidance)
- Outbreak! (LUPHA members simulate an outbreak with local high schoolers to educate them about how public health can prevent the spread of epidemics)
- Girls Learning About Microbiology (GLAM)
- Immigration simulation
- Stop the Bleed!

Graduate Student Advisory Council (Loyola) 2018 – 2020

- Service Chair (Academic Year 2019-2020)
  - Canned food drives for St. Ignatius Church
  - n2n (Neighbor-to-Neighbor) community involvement initiative in Rogers Park with Northwestern University
  - Coordinate financial and food donations to the Chicago Food Bank
  - Host social events for students across disciplines at the Health Sciences Campus
  - Promote interests of MPH students
- Treasurer (Academic Year 2018-2020):
  - Help create opt-in dental and vision insurance plans
  - Host annual symposium for students to showcase research

Ignatian Service Immersion (Loyola) Mar 2020

- Participant
- El Salvador encounter through CRISPAZ
- Educational immersion experience in which participants learn from the Salvadoran people about their lives, histories, and hopes for the future community

Health Science Mentors (USC)	2016 – 2019
<ul style="list-style-type: none"> <li>• Founder</li> <li>• President</li> <li>• Mentor</li> <li>• Alumnus adviser</li> </ul>	
Consortium on Resistance against Carbapenems in <i>K. pneumoniae</i> (CRACKLE II)	2016 – 2018
<ul style="list-style-type: none"> <li>• Site coordinator</li> <li>• CRE isolate handling</li> </ul>	
Young Researcher Program (USC)	2016 – 2017
<ul style="list-style-type: none"> <li>• Mentor to high school student</li> </ul>	
School of Medicine Graduate Student Association (USC)	2015 – 2018
<ul style="list-style-type: none"> <li>• Treasurer (elected)</li> <li>• Senator (appointed)</li> <li>• Alumnus adviser</li> </ul>	
LAC+USC Department of Emergency Medicine Research Division	2014 – 2015
<ul style="list-style-type: none"> <li>• Research assistant</li> <li>• What drives interest in PrEP (pre-exposure prophylaxis)</li> <li>• How well patients understand discharge orders</li> </ul>	

## **SOCIETY ACTIVITIES**

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### Memberships (Current):

American Association for the Advancement of Science (AAAS)	2022 – Present
American Physician Scientist Association (APSA)	2022 – Present
American College of Physicians (ACP)	2022 – Present
American Medical Association (AMA)	2020 – Present
American Society for Microbiology (ASM)	2012 – Present
Infectious Diseases Society of America (IDSA)	2015 – Present

### Memberships (Lapsed):

Illinois Society for Microbiology (ISM)	2017 – 2023
Southern California Branch of American Society for Microbiology (SCASM)	2017 – 2019
American Association of Immunologists (AAI)	2014 – 2016
Graduate Student Advisory Council (Loyola)	2018 – 2020
Treasurer; Chair of Service Committee	
US Young Ambassador of Science, American Society for Microbiology	2018 – 2020
Illinois State Representative	
Joint Education Project Fellow (USC)	2017 – 2018
World Anti-Microbial Resistance Congress	Sep 2017
Delegate	
Biomedical Advanced Research and Development Authority (BARDA)	Mar 2016
Invited Participant, Emerging Leaders in Biosecurity Initiative	
National Academy of Science, Institute of Medicine	Mar 2016
Invited Participant, Antibiotic Resistance in Agriculture	

## HONORS

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### Honors in Research (Stritch School of Medicine)

- The Research Honors Program distinguishes medical student graduates who complete a program of advanced education and experience in research are required
- Recipients are required to complete the STAR Program (Student Training in Approaches to Research); attend monthly Research Honors Seminars, research-related seminars, and journal clubs; pursue a research project throughout the last three years of medical school under the guidance of a selected research mentor; complete a research elective during the third or fourth year of medical school; and submit an original research manuscript.

### Albert Schweitzer Fellowship (Chicago Chapter)

- Selected for the development of a program to help students from local high schools interested in public health actively learn about the discipline from MPH students while gaining hands-on experience helping a local primary care clinic that caters to the underserved Latino population of Chicago's southwest side.
- Founded in 1940, The Albert Schweitzer Fellowship immerses a diverse group of graduate students in a mentored experiential learning and leadership development program designed to increase their skills and commitment to address the health needs of underserved people.

### AΣN Member (Loyola University Chicago)

- Selection to Alpha Sigma Nu is one of the highest honors that can be given on a Jesuit campus.
- Alpha Sigma Nu is the international honor society of Jesuit institutions of higher education founded in 1915 to honor a select number of students each year on the basis of scholarship, loyalty, and service.

### Public Health Scholar (Loyola University Chicago)

- Merit-based scholarship from the dean of the Stritch School of Medicine covering 50% tuition for the dual-degree MD/MPH program.

### Outstanding Abstract (American Society for Microbiology)

- Received for the abstract entitled “Poor Sales of Recent Antibiotics Indicate Need for a New, Sustainable Model for Antibiotic Development”.
- This award highlights outstanding abstracts presented by students, residents, or medical/clinical fellows.
- Only 40 abstracts of >10,000 are selected for this honor.

### The Order of Arête (University of Southern California)

- Received for work with the graduate student organization Health Science Mentors
- Represents the highest honor accorded graduate students upon completion of their academic programs.

### First Place for Poster Presentation (Great Minds in STEM Conference)

- Received first place for best presentation in summer 2016 for our poster, entitled “Murine IgG1 Antibody Enhances Opsonophagocytosis Better than IgG3 Isotype”.
- Under-represented minority high school students mentored by graduate students present on research performed in academic research laboratories.

### Dean's Honors List (University of California, Riverside)

- Students who complete a minimum of twelve units per term for letter grades, with no grade below a "B" and no grade of "No Credit" or "Incomplete", averaging 3.5 GPA or better.

## **AWARDS**

\$ 500	American Public Health Association	Jun 2022
\$ 15,000	The Shaulis Scholarship	Jun 2022
\$ 2,750	Albert Schweitzer Fellowship	May 2022
\$ 700	HEERF III Grant	Apr 2022
\$ 2,600	Patricia E. Doyle Scholarship	Dec 2021
\$ 2,600	Patricia E. Doyle Scholarship	Jun 2021
\$ 600	HEERF II Grant	Dec 2020
\$ 1,100	HEERF I Grant	Sep 2020
\$ 4,000	Infectious Disease Society of America 2020 G.E.R.M. Awardee	Apr 2020
\$ 4,220	T35 AI125220 Student Training in Approaches to Research Program	Mar 2020
\$ 9,000	Institutional Scholarship for MD at LUC Stritch School of Medicine	Dec 2019
\$ 558,000	R41 AI145759 (Co-I Corporate Applicant)	Nov 2019
\$ 600	New England Journal of Medicine Honorarium	Aug 2019
\$ 3,500	Institutional Scholarship for MD at LUC Stritch School of Medicine	Jul 2019
\$ 500	LUC Department of Public Health Sciences Travel Award	Jul 2019
\$ 200	ASM Outstanding Abstract Travel Award	May 2019
\$ 250	ASM Travel Grant	Mar 2019
\$ 19,728	Dean's Scholarship for MPH at LUC Stritch School of Medicine	Aug 2018
\$ 2,000	ExBaq-Related Travel Grant	Jun 2018
\$ 1,000	ASM Travel Grant	Jun 2018
\$ 14,440	Good Neighbors Grant for Mentoring Kids in Juvenile Hall	Jun 2018
\$ 9,000	ASM US Young Ambassadorship	Jan 2018
\$ 1,000	USC Learning Community on Engaged Graduate Education Fellowship	Dec 2017
\$ 37,000	USC Graduate Student Government Student Organization Allowance	Aug 2017
\$ 26,083	USC Graduate Affairs Fall & Spring Research Assistantship Award	Aug 2017
\$ 1,300	NIH Therapeutic Development for Rare Diseases Student Stipend	May 2017
\$ 20,000	Social Program Grant – LA County Board of Supervisors	Apr 2017
\$ 500	ASM Travel Grant	Dec 2016
\$ 1,500	BioAIM-Related Research Techniques Travel Grant	Aug 2016
\$ 37,000	USC Graduate Student Government Student Organization Allowance	Aug 2016
\$ 33,000	USC Keck/Graduate School Fellowship	Aug 2016
\$ 10,667	USC Graduate Affairs Summer Research Assistantship Award	May 2016
\$ 2,900,000	R42 AI106375 (Co-I Corporate Applicant)	Jul 2016
\$ 1,000	AAI Introductory Course Stipend	Jul 2015

## **CERTIFICATIONS**

IHI Open School Basic Certificate in Quality and Safety Institute for Healthcare Improvement	Jan 2022
Qualified Bilingual Staff – Spanish ALTA Language Services	Nov 2021
IDWeek Mentorship Program Infectious Diseases Society of America	Nov 2021

Surgical Fire Safety Loyola University Health System	Oct 2021
Introduction to Peer Review Clarivate Web of Science Academy	Oct 2021
Basic Life Support American Heart Association	Jul 2021
Microsoft Teams Essential Training LinkedIn Learning	Jan 2021
Harassment Prevention EVERFI	Nov 2020
Learning Zoom LinkedIn Learning	Apr 2020
Basic Life Support American Heart Association	Aug 2019
Mental Health First Aid National Council for Behavioral Health	Aug 2019
Sexual Assault Prevention EVERFI	Jul 2019
Grants Management Training for Faculty USC Contracts & Grants	Oct 2015
Introductory Course in Immunology American Association of Immunologists	Jul 2014

### **HOBBIES & INTERESTS**

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dollar-bill origami, Labrador Retrievers, numismatics, classic literature, mineral collecting, website development, loose-leaf tea, classic cars, ballroom dancing, classical music, ballet, opera, *The Economist*

### **LANGUAGE PROFICIENCY**

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English – native speaker  
 Spanish – advanced; certified medical interpreter  
 French – fair  
 Italian – basic