

Laurie A. Dempsey, Ph.D.

Nature Immunology

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CITIZENSHIP

United States of America

EDUCATION

1988, Ph.D. Microbiology. New York University, New York, NY
(Thesis Advisor, David A. Dubnau, The Public Health Research Institute)
1982, B.S. Microbiology. The University of Michigan, Ann Arbor, MI
(Undergraduate Research Advisor, Don B. Clewell)

PROFESSIONAL TRAINING AND EMPLOYMENT

November 2004 – current	Senior Editor, <i>Nature Immunology</i>
April 2003 – October 2004	Associate Editor, <i>Nature Immunology</i>
May 2001 – March 2003	Assistant Editor, <i>Nature Immunology</i>
April 2000 – April 2001	Assistant Professor of Immunology, Mayo Medical School, Rochester, MN 55905
Sept. 1998 – March 2000	Research Associate, Mayo Clinic, Dept. of Surgery, Transplantation Biology Supervisor, Jeffrey L. Platt
Sept. 1997 – August 1998	Research Associate, Duke University, Dept. of Surgery Supervisor, Jeffrey L. Platt
Nov. 1992 – August 1997	Research Fellow, Yale University Dept. of Molecular Biophysics and Biochemistry New Haven, CT 06520 Supervisor, Nancy Maizels
June 1989 – October 1992	Research Associate, University of Pittsburgh, Dept. of Molecular Genetics and Biochemistry Pittsburgh, PA 15261 Supervisor, Saleem A. Khan
April 1988 – May 1989	Research Molecular Biologist, University of California- Berkeley Supervisor, Nicholas R. Cozzarelli (deceased)

PROFESSIONAL SOCIETIES

The American Association of Immunologists
American Association for the Advancement of Science
International Cytokine & Interferon Society

COMMUNITY SERVICE

2024 – present	Jury member “Vilcek Prize, Biomedicine”
2008 – present	Jury member of the selection committee for “Vilcek Prize for Creative Promise”
2005 – present	Member, Scientific Advisory Committee Aegean Conferences
2009 – 2019	Council member, Asilomar Midwinter Conference of Immunologists, Pacific Grove, California

HONORS AND AWARDS

1998	Duke University Comprehensive Cancer Center Award
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1994-1996	American Cancer Society Institutional Research Grant NIH National Research Service Award, NRSA GM15948
1993	Seessel-Anonymous Fellowship, Yale University
1978	The University of Michigan Regents-Alumni Scholarship

CURRENT DUTIES & WORK EXPERIENCE

I have over twenty years of editorial experience at *Nature Immunology*. This position requires a wide breadth of understanding in basic immunological function and knowledge of disease states.

My activities include:

- Manuscript triage selection for external review and oversee the manuscript peer review process.
- Solicitation and commissioning of front-half material, including News & Views, review articles and commentaries.
- Write monthly research highlights and editorials (see list below).
- Represent *Nature Immunology* at international conferences.
- Coordinated special focus issues, which include “Hematopoietic stem cells (April 2002)”, “Chromatin dynamics (July 2003)”, “Processing peptides for presentation (July 2004)”, “Specialized immunological niches (April 2006)” and “Leukocyte trafficking (September 2008); “Celebrating 10 years of NI” (July 2010), “25 years of NF- κ B” (August 2011); “Tissue-resident leukocytes” (October 2013); “TCR signaling” (September 2014); “Neuroimmune communication” (February 2017); “Cytokines in Health & Disease” (December 2019); “Women in Immunology” (March 2020).
- Trainer, Macmillan Science Communication “Scientific Writing & Publishing” Workshops, Chongqing, China, (April 2014); Chengdu & Shanghai, China (July 2015); Kyoto, Japan (March 2016); Brisbane, Australia (August 2016); Marseille, France (September 2017); Dana Farber Institute, Boston USA (October 2018); Beijing, China (July 2019); virtual Breast Cancer Research Foundation (October 2021).
- Organized and moderated *Nature Immunology* webinar on “Human immunology” 26 October 2011.
- Co-moderator of *Nature Immunology–Nature Biotechnology* webcast “High-Dimensional Analysis of the Human Immune System” 7 February 2014.
- Led effort to develop Minimum Flow Cytometry standards for NPG-branded journals, which was implemented in spring 2009 (see the **Flow cytometry** section under “Availability of data and materials” on the ‘authors & referees@npg’ webpage at http://www.nature.com/authors/editorial_policies/availability.html)
- Assisted in revising the *Nature Immunology* ‘Guide to Authors’, implemented 18 May, 2009 and revisions to GTA implemented 23 February 2011.
- Contributor, NPG Editorial Training Guide (2013–2014).

My previous research endeavors had been concentrated in the areas of B cell development, specifically, investigating the mechanism of immunoglobulin class switch recombination (obtained at Yale University) and transplantation immunology, specifically, understanding how xenoreactive antibodies and ABO-blood antigens contribute to the process of hyperacute rejection of vascularized organs (Research Associate Professor at the Mayo Clinic). This work complemented my training in microbiology (New York University and later at the University of Pittsburgh), where I studied the transfer and replication of bacterial plasmids that encode antibiotic resistance determinants in Gram-positive bacteria.

INVITED TALKS & CONFERENCE ACTIVITIES

- 7-12 January 2024, Session chair, Gordon Research Conference - Food Allergies, Ventura, CA
- 17-19 October 2023 Scientific co-organizer of Nature Conference “Cracking the code: the dawn of nucleic acid medicines”, Worcester Polytechnic Institute, Worcester, MA

11-13 October 2023, Invited speaker, University of Chicago-Washington University-St. Louis joint retreat (hosts, Drs. Pete Savage and Sharon Morley), Normal IL

25-27 September 2023, Invited speaker, Boston Children's Hospital PCMM Scientific Retreat, Falmouth, MA (host, Dr. Fred Alt)

23 February 2023, Invited speaker, New York University, New York NY, (host, Dr. Boris Reizis)

24 October 2022, Invited speaker, La Jolla Institute of Immunology, La Jolla, CA (host, Dr. Erica Ollmann Saphire)

9 June 2022, Invited speaker, University of Crete, Heraklion, Crete Greece (host, Dr. Christos Tsatsanis)

1 June 2022, Invited speaker, Biomedical Research Foundation Academy of Athens (host, Dr. Evangelis Andreakos),

16 May 2022, Invited speaker, Mayo Clinic Scottsdale AZ (hosts, Drs. Fotini Gounari & Khash Khazaie)

28 February 2020, Invited speaker, University of Pennsylvania Systems Immunology Symposium (host, Dr. John Wherry)

24 October 2019, Invited speaker, Chinese Academy of Medical Sciences/Peking Medical College (host, Dr. Bo Huang)

11-13 October 2019, Invited speaker, 45th New England Immunology Conference, Woods Hole MA (host, Dr. Ann Marshak-Rothstein)

25 July 2019, Invited speaker, Tsinghua University Beijing China (host, Dr. Chen Dong)

7-12 June 2019, Co-organizer & Speaker Aegean Conference 16th International Conference on Innate Immunity, Rhodes, Greece.

19-23 May 2019, Invited speaker, EMBO Workshop - Mesenchymal cells in inflammation, immunity and cancer; "Reproducibility standards and reporting at Nature Research journals" (Dr. George Kollias), Athens, Greece

13-17 May 2019, Invited instructor, Greek Summer School of Immunology (Dr. Evangelis Andreakos), Porto Heli, Greece

5 March 2019, guest lecturer, "Infectious Diseases (ID) Gateway course" Washington University at Saint Louis, MO (host, Dr. Celeste Morley)

9 October 2018, Editorial discussion panelist, International Cytokine & Interferon Society Conference, Boston, MA (hosts, Drs. Kate Fitzgerald & Chris Hunter)

19 September 2018, Invited speaker, University of Pennsylvania Systems Immunology Symposium (host, Dr. Golnaz Vahedi)

5 September 2018, Editorial discussion panelist, Immunology-Interest Group NIH Workshop, Leesburg, VA

18-23 June 2018, Co-organizer Aegean Conference 15th International Conference on Innate Immunity, Kolymbari, Greece.

30 April 2018, Panelist "Facilitating Awareness: Career Exploration for Scientists", Stony Brook University School of Medicine (host, Dr. Stella Tsirka)

5 March 2018, Invited speaker, Baylor College of Medicine, Houston TX (host, Dr. David Corry)

17-19 October 2017, Roundtable discussion leader, La Jolla Immunology Conference (host, Dr. Hilda Chertoutre)

18 September 2017, Invited Speaker, Ulm University, Ulm Germany (host, Dr. Markus Huber-Lang)

19-24 June 2017, Co-organizer Aegean Conference 14th International Conference on Innate Immunity, Heraklion, Greece.

7 March 2017, Guest lecturer, "Infectious Diseases (ID) Gateway course" Washington University at Saint Louis, MO (host, Dr. Robyn Klein)

15 February 2017, Invited speaker, University of North Carolina at Chapel Hill (host, Dr. Jenny Ting)

22 January 2017, Invited speaker, Gladstone Institute, University of California-San Francisco (host, Dr. Katerina Akassoglou)

19-21 October 2016, Invited participant/commentator, The La Jolla Institute Scientific Retreat, Lake Arrowhead, CA (hosts, Drs. Dirk Zajonc & Chris Benedict)

6 October 2016, Roundtable discussion leader, University of Washington Immunology Program

(host, Dr. Joan Goverman)

3-5 October 2016, Co-organizer, 2nd Nature Conference, “Immune Profiling in Health and Disease”, Seattle, Washington

18-20 September 2016, Invited participant/commentator, Boston Children’s Hospital Program in Cellular and Molecular Medicine Scientific Retreat, Falmouth, Massachusetts (host, Dr. Fred Alt)

31 August 2016, Invited speaker, QIMR Brisbane, Australia (host, Dr. Mark Smyth)

23-28 June 2016, Co-organizer Aegean Conference 13th International Conference on Innate Immunity, Rhodes, Greece.

10 March 2016, Invited speaker, Kyoto University, Kyoto Japan (host, Dr. Tasuku Honjo)

24 January 2016, Roundtable discussion leader, Asilomar Midwinter Conference of Immunologists, Pacific Grove, California

21 January 2016, Roundtable discussion leader, The La Jolla Institute, California (host, Dr. Mitch Kronenberg)

20 January 2016, Invited speaker, The Scripps Research Institute, La Jolla, CA (host, Dr. Michael McHeyzer-Williams)

19 January 2016, Invited speaker, University of California-San Diego (host, Dr. Kees Murre)

8 December 2015, Invited speaker, The Public Health Research Institute, Newark NJ (host, Dr. Marila Gennaro)

13 November 2015, Invited speaker, La Trobe University, Melbourne, Australia (hosts, Drs. Mark Hulett and Marc Kvensakul)

12 November 2015, Roundtable discussion leader, WEHI, Melbourne, Australia (host, Dr. Steve Nutt)

11 November 2015, Roundtable discussion leader, Uni-Melbourne, The Peter Doherty Institute, (host, Dr. Dale Godfrey)

10 November 2015, Invited speaker, Monash University, Melbourne (host, Dr. Paul Hertzog)

28 October 2015, Invited speaker, Baylor Medical College, Houston TX (host, Dr. David Corry)

20-22 September 2015, Invited speaker, Boston Children’s Hospital Program in Cellular and Molecular Medicine Scientific Retreat, Falmouth, Massachusetts (host, Dr. Fred Alt)

9-11 September 2015 Co-organizer, Nature Conference, “Immune Profiling in Health and Disease”, Seattle, Washington

26 August 2015, Invited speaker, University of Virginia - Center for Brain Immunology and Glia, Charlottesville, VA (host, Dr. Jony Kipnis)

9 July 2015 Invited speaker, Fudan University, Shanghai, China (host, Dr. Yiwei Chu)

26 June 2015 Invited speaker, University of Crete, Heraklion, Crete Greece (host, Dr. Christos Tsatsanis)

19-24 June 2015, Co-organizer Aegean Conference 12th International Conference on Innate Immunity, Kolymbari, Greece.

17 February 2015 guest lecturer, “Infectious Diseases (ID) Gateway course” Washington University at Saint Louis, MO (host, Dr. Robyn Klein)

28 October 2014 Invited speaker, Cincinnati Children’s Hospital Medical Center (host, Dr. Harinder Singh)

15 October 2014 Invited speaker, University of Michigan, Ann Arbor, Michigan (host, Dr. Gabriel Nunez)

25 September 2014 Invited speaker, University Clinic Dresden, Dresden, Germany (host, Dr. Triantafyllos Chavakis)

19 September 2014 Panelist, Meet the Editors, 44th Annual Meeting German Society for Immunology, Bonn, Germany

27 August 2014 Invited speaker, Department of Immunology, Cleveland Clinic (host, Dr. Xiaoxia Li)

26-27 July 2014 Panelist, Gordon Research Seminar “Chemotactic Chemokines”, Mount Snow, Vermont.

1-6 June 2014, Co-organizer Aegean Conference 11th International Conference on Innate Immunity, Olympia, Greece.

30 May 2014 Invited speaker, Alexander Fleming Institute, Vari Greece (host, Dr. Dimitris Kontoyiannis)

16 April 2014 Invited speaker, Tongji University, Shanghai, China (host, Dr. Gang Pei)

21-22 November 2013 Invited speaker, University of California-Irvine Immunology Fair (host, Dr. Paolo Casali)

28 May – 3 June 2013 Interviewer, Cold Spring Harbor Laboratory Symposium on “Immunity & Tolerance”, Cold Spring Harbor, New York
<https://www.youtube.com/watch?v=UFMTwqCfyaM>
<https://www.youtube.com/watch?v=DrPwjYAgVXA>
<https://www.youtube.com/watch?v=VyIvg0Us6jE>
<https://www.youtube.com/watch?v=5PnTdUbolRk>
<https://www.youtube.com/watch?v=IhIWhncicBs>

23-28 June 2013 Co-organizer Aegean Conference 10th International Conference on Innate Immunity, Kos, Greece.

1-3 October 2012 Co-organizer HudsonAlpha-Nature “Immunogenomics” Conference, Huntsville, Alabama

6 September 2012 Columbia University, invited speaker Microbiology & Immunology departmental retreat (host, Dr. Sankar Ghosh)

31 August 2012, invited speaker, “Added-value contributions of editorial processes” Rudi Grosschedl Birthday Symposium
 Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany

6 November 2011 Panelist, “What can you be with a Ph.D.” New York University

12-14 September 2011 “Meet the editors” roundtable discussions
 National Institutes of Health Immunology Interest Group 2011 Retreat

5-10 June 2011 Co-organizer Aegean Conference 6th Leukocyte Signal Transduction Workshop, Chania, Crete GREECE; presentation “A view inside Nature Immunology”

15 March 2011 “Understanding editorial decision making at *Nature Immunology*”
 Duke University, Durham, NC (host, Dr. Mike Krangel)

26–20 September 2010, Invited session chair, DC2010:Forum on Vaccine Science, Lugano, Switzerland (organizers, Drs. Antonio Lanzavecchia, Federica Sallusto & Markus Manz)

19 July 2010 Invited panel speaker, The Second International Conference on Regulatory T cells and Th17 cells and Clinical Application in Human Disease, Shanghai, China (organizers, Drs. Xuetao Cao and Shuiping Jiang)

14 June 2010 University of Pennsylvania, Philadelphia, PA (host, Dr. Chris Hunter)

19–21 February 2010 Co-organizer, NPG Emergence & Convergence Symposium “Epigenetic dynamics in the immune system” San Antonio, Texas

14 November 2009 Panel speaker, Publish and Flourish: Careers in Science Publishing and Writing; “What can you be with a PhD? A Science & Technology Career Symposium” NYU Langone Medical Center

3 November 2009 “What does an editor think?” University of Amsterdam Academic Medical Center (AMC), Amsterdam, The Netherlands (host, Dr. Hergen Spits)

2 November 2009 “Behind the scenes at *Nature Immunology*” Netherlands Cancer Institute (NKI), Amsterdam, The Netherlands (host, Dr. Ton Schumacher)

21–26 June 2009 Poster judge, 6th International Conference on Innate Immunity, Aegean Conference, Heraklion, Crete, Greece

21 May 2009, Career Pathways Seminar New York University (panelist)

1 December 2008 “The Editor’s Work”, *Responsible Conduct of Research Workshop*, Max Planck Institute, Berlin, Germany

1–3 October 2008 National Institutes of Health, Immunology Interest Group Retreat, Judge, poster competition (invitation by Drs. Pamela Schwartzberg & Juan Rivera)

6 June 2008 Co-organizer, NPG Emergence & Convergence Symposium “Multiple Sclerosis; from Pathogenesis to Therapy” Paris, France.

8 May 2008 “An insider’s view of publishing in Nature-branded journals” University of Western Ontario, London, Ontario (host, Dr. Quim Madrenas)

7 April 2008 American Association of Immunologists 2008 annual conference, San Diego, CA (panelist “Navigating Biomedical Careers”)

4 April 2008 “What’s new in publishing at NPG” Scripps Research Institute (La Jolla, CA; host, Dr. Michael McHeyzer-Williams)

- 3 November 2007 New York University (panelist, “What you can be with a Ph.D.”)
- 14 May 2007 Institute for Research in Biomedicine (Bellinzona, Switzerland)
(hosts, Drs. Antonio Lanzavecchia & Federica Sallusto)
- 31 January 2007 Stanford University, Palo Alto, CA (hosts, Drs. Lee & Len Herzenberg)
- 2 February 2006 University of California, Los Angeles “Roundtable discussion: Scientific editing” (hosts, Drs. Steve Smale & Ken Dorshkind)
- 26 September 2005 2nd Conference on Autoimmunity, Mechanisms and Novel Treatments, Aegean Conferences, Santorini, Greece “An insiders view of publishing at *Nature Immunology*” (host, Dr. Mark Mamula)
- 28 January 2005 University of California, Berkeley “The manuscript review pathway” (host, Dr. Mark Schlissel)
- 27 January 2005 University of California, San Francisco “Editing as a science career” (host, Dr. Anthony DeFranco)
- 15 October 2004 National Institutes of Health, Immunology Interest Group Retreat, “Meet the editor” roundtable panelist (invitation by Dr. Richard Siegel)
- 28 January 2003 Barnard College, “Careers in scientific publishing” (invitation by Dr. Jane Celwyn, Director of Career Development)
- 21 February 2002 Yale University Graduate Student Research Symposium
“Alternative Careers in Science” panelist.
- 1 November 1999 4th Annual Conference of Glycobiology, San Francisco, CA
“Human Heparanase Expression During Development and Vascular Disease”
- 25 October 1999 The 5th Congress of the International Xenotransplantation Association, Nagoya, Japan. “Platelet heparanase in vascular responses to xenotransplantation”.

PUBLICATIONS

Editorials

- “Marching forward in Neuroimmunology” *Nature Immunology* **25** (2024).
- “Mentorship matters” *Nature Immunology* **22**, 929 (2021).
- “Coping with COVID” *Nature Immunology* **22**, 255 (2021).
- “Challenges for the Biden Presidency” *Nature Immunology* **22**, 1 (2021).
- “March for women” *Nature Immunology* **21**, 233 (2020).
- “Cytokines in the balance” *Nature Immunology* **20**, 1557 (2019).
- “Neuroimmune communication” *Nature Immunology* **18**, 115 (2017).
- “A versatile cell population” *Nature Immunology* **17**, 754 (2016).
- “A primer on TCR signaling” *Nature Immunology* **15**, 789 (2014).
- “Immunity in the tissues” *Nature Immunology* **14**, 977 (2013).
- “Resources for life” *Nature Immunology* **13**, 1021 (2012).
- “Celebrating 25 years of NF- κ B” *Nature Immunology* **12**, 681 (2011).
- “The costs of being placed on hold” *Nature Immunology* **12**, 365 (2011).
- “Support for Peer Review” *Nature Immunology* **11**, 1063 (2010).
- “Looking forward” *Nature Immunology* **11**, 545 (2010).
- “Dogmas, paradigms and proving hypotheses” *Nature Immunology* **11**, 455 (2010).
- “Educating the public” *Nature Immunology* **11**, 181 (2010).
- “Encouraging minority scientists” *Nature Immunology* **10**, 927 (2009).
- “For authors” *Nature Immunology* **10**, 553 (2009).
- “Borrowing words, or claiming them” *Nature Immunology* **10**, 225 (2009).
- “New challenges for a new leader” *Nature Immunology* **10**, 1 (2009).
- “On the move” *Nature Immunology* **9**, 947 (2008).
- “Assessing the status of human immunology” *Nature Immunology* **9**, 569 (2008).
- “Prelude to a good story” *Nature Immunology* **9**, 107 (2008).
- “Promoting peace through science” *Nature Immunology* **8**, 895 (2007).
- “Reviewing appeals” *Nature Immunology* **8**, 541 (2007).
- “A matter of debate” *Nature Immunology* **8**, 1 (2007).
- “A ‘systems approach’ to vaccines” *Nature Immunology* **7**, 891 (2006).

“The right place at the right time” *Nature Immunology* **7**, 327 (2006).
“The year of bird flu” *Nature Immunology* **7**, 115 (2006).
“Scientific blues” *Nature Immunology* **7**, 1 (2006).
“Financial Security” *Nature Immunology* **6**, 853 (2005).
“In memoriam: Stanley J. Korsmeyer (1950-2005)” *Nature Immunology* **6**, 533 (2005).
“Hard times at the FDA” *Nature Immunology* **6**, 115 (2005).
“Generics for AIDS” *Nature Immunology* **5**, 1089 (2004).
“From fragments to immunity” *Nature Immunology* **5**, 659 (2004).
“Standing up to bullies” *Nature Immunology* **5**, 345 (2004).
“The politics of federal research” *Nature Immunology* **4**, 1151 (2003).
“(Un-)Braiding the genome” *Nature Immunology* **4**, 601 (2003).
“Haves and have nots” *Nature Immunology* **4**, 1 (2003).
“Vaccines—endangered species?” *Nature Immunology* **3**, 695 (2002).
“Betting on HSCs” *Nature Immunology* **3**, 307 (2002).

Primary research

Dempsey, L.A., Brunn, G.J. & Platt, J.L. Heparanase, a potential regulator of cell-matrix interactions. *Trends Biochem. Sci.* **25**, 349-351 (2000). *Review.*

Dempsey, L.A., Plummer, T.B., Coombes, S.L. & Platt J.L. Heparanase expression in invasive trophoblasts and acute vascular damage. *Glycobiology* **10**, 467-475 (2000).

Dempsey, L.A., Plummer, T.B., Coombes, S.L. & Platt J.L. Platelet heparanase in vascular responses to xenotransplantation. *Transplant Proc.* **32**, 972 (2000).

Platt, J.L. & Dempsey, L.A. Accessory function for NK1.1⁺ natural killer cells producing interferon-gamma in xenospecific cytotoxic T lymphocyte differentiation. Whither the natural killer cell. *Transplantation* **68**, 727-729 (1999).

Dempsey, L.A., Sun, H., Hanakahi, L.A. & Maizels, N. G4 DNA binding by LR1 and its subunits, nucleolin and hnRNP D, a role for G-G pairing in immunoglobulin switch recombination. *J. Biol. Chem.* **274**, 1066-1071 (1999).

Dempsey, L.A., Hanakahi, L.A. & Maizels, N. A specific isoform of hnRNP D interacts with DNA in the LR1 heterodimer: canonical RNA binding motifs in a sequence-specific duplex DNA binding protein. *J. Biol. Chem.* **273**, 29224-29229 (1998).

Dempsey, L.A., Li, M.J., DePace, A., Bray-Ward, P. & Maizels, N. The human *HNRPD* locus maps to 4q21 and encodes a highly conserved protein. *Genomics* 1998 **49**, 378-384 (1998).

Hanakahi, L.A., Dempsey, L.A., Li, M.J. & Maizels, N. Nucleolin is one component of the B cell-specific transcription factor and switch region binding protein, LR1. *Proc. Natl. Acad. Sci. USA.* **94**, 3605-3610 (1997).

Bulfone-Paus, S., Dempsey, L.A. & Maizels, N. Host factors LR1 and Sp1 regulate the Fp promoter of Epstein-Barr virus. *Proc. Natl. Acad. Sci. USA* **92**, 8293-8297 (1995).

Dempsey, L.A., Zhao, A.C. & Khan, S.A. Localization of the start sites of lagging-strand replication of rolling-circle plasmids from gram-positive bacteria. *Mol. Microbiol.* **15**, 679-687 (1995).

Dempsey, L.A., Birch, P. & Khan, S.A. Six amino acids determine the sequence-specific DNA binding and replication specificity of the initiator proteins of the pT181 family. *J. Biol. Chem.* **267**, 24538-24543 (1992).

Dempsey, L.A., Birch, P. & Khan, S.A. Uncoupling of the DNA topoisomerase and replication activities of an initiator protein. *Proc. Natl. Acad. Sci. USA* **89**, 3083-3087 (1992).

Dempsey, L.A. & Dubnau, D.A. Localization of the replication origin of plasmid pE194. *J. Bacteriol.* **171**, 2866-2869 (1989).

Dempsey, L.A. & Dubnau, D.A. Identification of plasmid and *Bacillus subtilis* chromosomal recombination sites used for pE194 integration. *J. Bacteriol.* **171**, 2856-2865 (1989).

Clewell, D.B., Fitzgerald, G.F., Dempsey, L.A., Pearce, L.E., An, F.Y., White, B., Yagi, Y., and Gawron-Burke, C. (1985) Streptococcal Conjugation: Plasmids, Sex Pheromones and Conjugative Transposons. In "Molecular Basis of Oral Microbial Adhesion". (S. Mergenhagen and B. Rosen, eds.) pp. 194-203 American Society for Microbiology, Washington DC.