

Supervisor of the Anatomic Pathology department, this included both Cytology and Histology laboratories. Responsible for management of personal including disciplinary actions, scheduling, development and implementation of criteria based performance evaluations, budget preparation, ordering supplies, research and development including special stains, Immunohistochemical procedures, DNA probes, surgical pathology procedures and quality improvement. General Laboratory supervisor on call.

- Developed curriculum for School of Histotechnology.
- Revised all procedures including: Histology, Special Stains, Immunohistochemistry, Surgical Pathology, Autopsy and Cytology
- Laboratory chemical safety hygiene officer, chairman laboratory safety committee, hospital safety committee. Prepared Laboratory and Hospital Laboratory Chemical Safety Hygiene and Exposure Control Plans.
- Member of Hospital Implementation Team for Total Quality Management. Hospital CQI Instructor.
- Member Hospital Safety Inspection Team, JCAHO Inspection Team, and Team Leader for Hospital CQI Taskforce on Hazardous Communication.

October 1983- August 1989

Sinai Hospital of Detroit

Assistant Supervisor Histology

Histotechnologist responsible for routine histology in a 400 bed teaching hospital. This included immunohistochemistry, special stains, research and development and troubleshooting. Promoted to Assistant Section Head in April 1985. Set up current Immunohistochemical Laboratory. Provide backup support in absence of Section Head. Assisted in Autopsy and Surgical Gross.

PROFESSIONAL SOCIETIES

National Society of Histotechnologists
American Society of Clinical Pathologists - Associate Member
Colorado Society of Histotechnologists
Colorado Biotechnology Association
Inflammation Research Association

PUBLICATIONS

1. Herman, G.E., Elfont, E.A., **Chlipala, E.A.**, Bochenski, G.M. *Zinc Formalin Fixative for Automated Tissue Processing.* Journal of Histotechnology, June 1988
2. Feldman, A, **Chlipala, E.A.**, *HT/HTL Study Guide*, Michigan Society of Histotechnologists, Sept. 1990
3. **Chlipala, E.A.** *Troubleshooting Staining Contaminants in the Gomori's Methanamine Silver Stain.* ASCP Tech Sample, ASCP Press, Sept. 1995
4. Bendele, A.M., McAbee, T., Woodward, M., Schneider, J., Frazier, J., **Chlipala, E.**, Dave Collins, Dorothy McCabe. L. Effects of interleukin-1 receptor antagonist in slow release hylan vehicle on rat type II collagen arthritis. Pharmaceutical Res. 15:1557-1561, 1998.
5. Bendele, A.M., Sennello, G., Frazier, J. and **Chlipala, E.**, Effects of Interleukin-1 receptor antagonist alone and in combination with methotrexate in adjuvant arthritic rats. J Rheumatol. 26:1225-1229,1999.

6. Bendele, A.M., Aitchison, R., McAbee, T., Sennello, G., Frazier, J., **Chlipala, E.** and McCabe D. Sustained blood levels of IL-1ra improve efficacy in animal models of arthritis: Comparison of efficacy in animal models to human clinical data. Arthritis Rheum 42:498-506, 1999.
7. McComb, J., Gould, T., **Chlipala, E.**, Sennello, G., Frazier, J. and Bendele, A.. Anti-arthritic activity of soluble TNF-R1 forms in adjuvant arthritis: correlation of plasma levels with efficacy. J Rheumatology 26:1347-1351, 1999.
8. Bendele, A., McComb, J., Gould, T., Guy, M., **Chlipala, E.**, Sennello, R., McAbee, T., Edwards, C. Combination Benefit of Treatment with Soluble TNF-RI and Methotrexate in Adjuvant Arthritis. Clin Exptl Rheumatol. (In press 1999).
9. Bendele, A., McComb, J., Gould, T., **Chlipala, E.**, Sennello, R., McAbee, Guy, M. Animal models of arthritis: relevance to human disease. Toxicologic Pathology, 27:134-142, 1999.
10. Bendele, A., McComb, J., Gould, T., Guy, M., **Chlipala, E.**, Sennello, R., McAbee, T., Edwards, C. Combination Benefit of Treatment with Soluble TNF-RI and Dexamethasone or Indomethacin in Rat Adjuvant Arthritis. Inflammation Res, 48:453-460, 1999
11. Bendele, A., **Chlipala, E.**, Sennello, R., Frazier, J., Edwards, C. Combination Benefit of Treatment with Soluble TNF-RI and IL-1ra in Rat Models of Arthritis. Arthritis Rheum, In press, Nov 2000)
12. Bendele, A., Nikrad, P., McComb, J. Mou, Y., Gould, T., **Chlipala, L.**, McAbee, T. and Mantlo, N B. Differential Profile of Anti-arthritic activity of AMG 158281, an inhibitor of p38 kinase, in adjuvant and type II collagen arthritis in rats. Inflammation Research.
13. Bendele, A. McComb, J., Spohr, U., Gould, T. Malone, M., **Chlipala, L.**, McAbee, T., Mantlo, N B. Pharmacologic profile of activity of AMG 137023, a p38 kinase inhibitor, in rat models of rheumatoid arthritis. J. Pharmacol. Exptl. Ther.
14. Bendele, A., Mantlo, N., Franklin, R., Ibrahim, P.N, Nikrad, P., McComb, J. Mou, Sennello, G., **Chlipala, L.**, Colagiovanni, D. Toxicity profile of AMG 158281, a p38 kinase inhibitor in rats. Toxicologic Pathology.
15. Bendele, A., Mantlo, N., Franklin, R., Ibrahim, P.N, Nikrad, P., McComb, J. Mou, Sennello, G., **Chlipala, L.**, M., Colagiovanni, D. Toxicity profile of AMG158281, a p38 kinase inhibitor in dogs and monkeys. Toxicologic Pathology.
16. Bendele, A. Ibrahim, P.N, McComb, J., Gould, T. **Chlipala, L.** Mantlo, N B. Pharmacologic profile of activity of AMG 214011, a p38 kinase inhibitor, in adjuvant arthritis in rats. European J. Pharm.
17. Cox G.N., Smith D.J., Carlson S.J., Bendele, A.M., **Chlipala, E.** and Doherty, D.H. (2004) Enhanced circulating half-life and hematopoietic properties of a human granulocyte colony-stimulating factor/immunoglobulin fusion protein. Exp. Hematol. 32: 441-449.
18. Rutledge, A. and **Chlipala, E.** (2004) Decalcified Bone Sections in Surgically Induced Osteoarthritis in Rat. Histologic, Spring 2004.

19. Rosendahl MS, Doherty DH, Smith DJ, Carlson SJ, **Chlipala EA**, Cox GN. A long-acting, highly potent interferon alpha-2 conjugate created using site-specific PEGylation. Bioconjug Chem. 2005 Jan-Feb;16(1):200-7.

INVITED LECTURES/PRESENTATIONS

1. **Chlipala, E.A.** *How to Set Up and Immunoperoxidase Laboratory*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. May 1986.
2. **Chlipala, E.A.** *Titration Calculations in Immunoperoxidase*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. May 1987.
3. **Chlipala, E.A.** *DNA Imaging Analysis*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. May 1988.
4. **Chlipala, E.A.** *The use of Parathyroid Stains in the Frozen Section Evaluation of Parathyroid Adenoma vs. Parathyroid Hyperplasia*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. April 1989.
5. **Chlipala, E.A.** *Zinc Formalin Fixation*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. June 1990
6. **Chlipala E. A.** *Utilizing Zinc Formalin Fixative in the Histology Laboratory*. Presented for the ASCP Teleconferences. April 1991.
7. **Chlipala E. A.** *Workshop - Quality Assurance in Anatomic Pathology*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. May 1991
8. **Chlipala E.A.** *Quality Assurance in the Histology Laboratory*. Presented for the ASCP Teleconferences. Oct. 1991.
9. **Chlipala E.A.** *Utilizing Zinc Formalin in the Histology Laboratory*. Presented at Illinois Society for Histotechnologists Annual Convention. April 1992.
10. **Chlipala E.A.** *Workshop - Quality Assurance in Histology*. Presented at Illinois Society for Histotechnologists Annual Convention. April 1992.
11. **Chlipala E.A.** *Fixation and Mounting Media*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. June 1992.
12. **Chlipala, E.A.** *Workshop - Quality Improvement in the Histology Laboratory*. Presented at Illinois Society for Histotechnologists Annual Convention. May 1993.
13. **Chlipala, E.A.** *Workshop - Basic Lecture Series*. Presented at Illinois Society for Histotechnologists Annual Convention. May 1993.
14. **Chlipala, E.A.,** Heinlein, S. *Workshop - Titration Calculations in Immunohistochemistry*. Presented at Michigan Society of Histotechnologists Annual Convention/Symposium. May 1993.

15. **Chlipala, E.A.** *Workshop - Quality Assurance in Histology*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1993.
16. **Chlipala, E.A.** *Quality Improvement in the Histology Laboratory*. Presented for the National Society of Histotechnologists Teleconference Series. Feb. 1994.
17. **Chlipala, E.A.** *Quality Improvement in the Histology Laboratory*. Presented for the ASCP Teleconferences. April 1994.
18. **Chlipala, E.A.** *Workshop - Quality Improvement in the Histology Laboratory*. Presented at Michigan Society of Histotechnologists Annual Symposium/Convention. May 1994.
19. **Chlipala, E.A.** *Fixation*. Presented at Michigan Society of Histotechnologists Annual Symposium/Convention. May 1994.
20. **Chlipala, E.A.** *Workshop - Quality Improvement in the Histology Laboratory*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1994
21. **Chlipala, E.A.** *Quality Improvement in the Histology Laboratory*. Presented for the University of Texas Teleconference Series. March 1995.
22. **Chlipala, E.A.** *Workshop - Titration Calculations in Immunohistochemistry*. Presented to the Advanced Immunohistochemistry Seminar. June 1995.
23. **Chlipala, E.A.**, Hodorowski, C. *Workshop - Quality Improvement in Today's Histology Laboratory*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1995.
24. **Chlipala, E.A.**, Krempel, G. *Workshop - Reengineering: Staying on Track with Change* Presented at National Society for Histotechnologists Annual Convention. Oct. 1995.
25. **Chlipala, E.A.**, Hodorowski, C. *Workshop - Team Building Utilizing Total Quality Management Techniques*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1996.
26. **Chlipala, E.A.**, Brown, H.S. *Workshop - Titration Calculations in Immunohistochemistry*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1996.
27. **Chlipala, E.A.**, Krempel, G. *Workshop - Reengineering: Staying on Track with Change* Presented at National Society for Histotechnologists Annual Convention. Oct. 1996.
28. **Chlipala, E.A.** *Reengineering in Anatomic Pathology*. Presented for the ASCP Teleconferences. December 1996.
29. **Chlipala, E.A.** *Titration Calculations in Immunohistochemistry*. Presented to Mountain Societies for Histology and Cytology Annual Convention. June 1997.
30. **Chlipala, E.A.** *CAP Inspections*. Presented to Ventana Sale Meeting. July 1997.
31. **Chlipala, E.A.**, Brown, H.S. *Workshop - Titration Calculations in Immunohistochemistry*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1997.

32. **Chlipala, E.A.**, Brown, H.S. *Workshop - Titration Calculations in Immunohistochemistry*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1998.
33. **Chlipala, E.A.**, Brown, H.S. *Workshop - Titration Calculations in Immunohistochemistry*. Presented at National Society for Histotechnologists Annual Convention. Oct. 1999.
34. **Chlipala, E.A.** *Workshop – Decalcified Bone Sections in Animal Models of Rheumatoid Arthritis*. Presented at National Society for Histotechnologists Annual Convention. Sept 2004.
35. **Chlipala, E.A.**, St. Amand, Allison. – *Localization of Mycobacterium tuberculosis in diseased tissue utilizing in situ hybridization in combination with immunohistochemistry*. Presented at Colorado Society for Histotechnology Annual Meeting. April 2005.

ABSTRACTS, POSTERS

1. Alison M. Bendele, Gina Sennello, Tracy McAbee, Jan Frazier, **Elizabeth Chlipala**. Effects of Interleukin-1 Receptor Antagonist Alone and in Combination with Methotrexate in Adjuvant Arthritic Rats. ACR 61st National Scientific Meeting, November 1997.
2. David Collins, Tracy McAbee, Melissa Woodward, Jan Frazier, **Elizabeth Chlipala**, and Alison Bendele. A Slow Release Formulation of Interleukin-1 Receptor Antagonist (IL-1ra) Exhibits Improved In Vivo Activity. ACR 61st National Scientific Meeting, November 1997.
3. Alison Bendele, Gina Sennello, Tracy McAbee, Jan Frazier, **Elizabeth Chlipala** and Vann Parker. Sustained Blood Levels of Interleukin-1 Receptor Antagonist Improve Efficacy in Animal Models of Arthritis: Comparison to Human Clinical Data. ACR 61st National Scientific Meeting, November 1997.
4. Bendele, A.M., McComb, J., Gould, T., **Chlipala, L.**, Frazier, J., Colagiovanni, D., and Edwards, C. Comparative efficacy of sTNF-RI, a novel monomeric recombinant soluble TNF type I receptor, to dimeric sTNF-RI and sTNF-RII IgG1 Fc fusion proteins in animal models of rheumatoid arthritis. 7th International TNF Congress, Hyannis, Mass. May 1998.
5. Edwards, C.K., Garrison, A., Reznikov, L., Fantuzzi, G., Bendele, A., **Chlipala, E.**, Frazier, J., Zhou, T., Mountz, J. Dinarello, C. Induction of chronic synovitis and generalized autoimmune disease in tumor necrosis factor- α deficient mice treated with viable *mycoplasma pulmonis*. American College of Rheumatology, San Diego. Nov. 1998.
6. **Chlipala, L.**, Bendele, A., Dinarello, C. and Edwards, CE III. Mycoplasma pulmonis-induced Arthritis in TNF- α Knockout Mice (ko) and TNF- α ko/TgA86 Mice: Characterization of the Models and Evaluation of Various Anti-arthritic Agents. American College of Rheumatology Annual Meeting, Boston, 1999.
7. Bendele, A., **Chlipala, E.**, Rich, B and Edwards, CK, III Combination Benefit of Treatment with IL-1ra and PEG sTNF-RI in Animal models of Arthritis. American College of Rheumatology Annual Meeting, platform presentation, Boston, 1999.
8. **Chlipala, E.**, Rutledge, A. Decalcified Bone Sections in Animal Models of Rheumatoid Arthritis. National Society for Histotechnology Annual Convention, Louisville, 2003.

9. Rutledge, A., **Chlipala, E.** Decalcified Bone Sections in Surgically-Induced Osteoarthritis in Rats. National Society for Histotechnology Annual Convention, Louisville, 2003.

EXTRACURRICULAR

Member – Colorado Biotechnology Association Membership Committee	2003 – present
Editorial Board Laboratory Medicine	2001 - present
Chair - ASCP BOR Histotechnology Examination Committee	1999 - 2001
Vice Chair - ASCP BOR Histotechnology Examination Committee	1998 - 1999
Member - ASCP BOR Histotechnology Examination Committee	1993 – 2001
Grader - ASCP BOR Histotechnology Examination Committee	1992 - present
Secretary - Illinois Society for Histotechnology	1994 - 1996
Secretary - Michigan Society of Histotechnologists	1987 - 1996
Member - ASCP AMS-CCE Teleconference Committee	1989 - 1997
Secretary - Illinois Society for Histotechnology	1991 - 1992
President - Chicago Chapter Illinois Society for Histotechnology	1992 - 1993
Michigan Society of Histotechnologists <i>Barbara B. Spilling Award</i>	1989
Michigan Society of Histotechnologists <i>John M. Budinger Award</i>	1991
Hinsdale Hospital <i>Clinical Employee of the Month</i>	November 1992
Illinois Society for Histotechnologists <i>Technologist of the Year</i>	1993