

## BIBLIOGRAPHY

- Amorn, L. (2005). Antibiotics for resistant bacteria. *Siriraj Medical Journal*, 57(10), 450-453.
- Arora, S., Lim, C.S., & Baptista, C. (2010). Antibacterial activity of *Lucilia cuprina* maggot extracts and its extraction techniques. *International Journal of Integrative Biology*, 9(1), 43-48.
- Atlas, R.M. (1994). *Principles of microbiology*. St. Louis, Missouri: Mosby-Year Book, Inc.
- Baer, W.S. (1931). The treatment of chronic osteomyelitis with the maggot (larva of the blowfly). *Journal of Bone Joint Surgery*, 13, 438-475.
- Barnes, K.M., Dixon, R.A., & Gennard, D.E. (2010). The antibacterial potency of the medicinal maggot, *Lucilia sericata* (Meigen): variation in laboratory evaluation. *Journal of Microbiological Methods*, 82, 234-237.
- Beasley, W.D., & Hirst G. (2004). Making a meal of MRSA – the role of biosurgery in hospital-acquired infection. *Journal of Hospital Infection*, 56, 6-9.
- Bexfield, A., Nigam, Y., Thomas, S., & Ratcliffe, N.A. (2004). Detection and partial characterization of two antibacterial factors from the excretions/secretions of the medicinal maggot *Lucilia sericata* and their activity against methicillin-resistant *Staphylococcus aureus* (MRSA). *Microbes and Infection*, 6, 1297- 1304.
- Bexfield, A., Bond, A.E., Roberts, E.C., Dudley, E., Nigam, Y., Thomas, S., et al. (2008). The antibacterial activity against MRSA strains and other bacteria of a <500 Da fraction from maggots excretions/secretions of *Lucilia sericata* (Diptera: Calliphoridae). *Microbes and Infections*, 10, 325-333.
- Bexfield, A., Bond, A.E., Morgan, C., Wagstaff, J., Newton, R.P., Ratcliffe, N.A., et al. (2010). Amino acid derivatives from *Lucilia sericata* excretions/secretions may contribute to the beneficial effects of maggot therapy via increased angiogenesis. *British Journal of Dermatology*, 162(3), 554-562.
- Bishop, D.M. (1991). Variations in numbers of occipital setae for two species of *Lucilia* (Diptera: Calliphoridae) in New Zealand. *New Zealand Entomologist*, 14, 29-31.

Black, J.G. (2004). *Microbiology: Principle and explorations* (6th ed.). New Jersey: John Wiley and Sons, Inc.

Boris, S., Su árez, J.E., V ázquez, F., & Barb és, C. (1998). Adherence of human vaginal epithelial cells and interaction with uropathogens. *Infection and Immunity*, 66, 1985-1989.

Bowler, P. G., & Davies, B.J. (1999). The microbiology of acute and chronic wounds. *Wounds*, 11, 72-79.

Bowler, P.G., Duerden, B.I., & Armstrong, D.G. (2001). Wound microbiology and associated approaches to wound management. *Clinical Microbiology Review*, 14(2), 244-269.

Bunkis, J., Gherini, S., & Walton, R.L. (1985). Maggot therapy revisited. *Western Journal of Medicine*, 142, 554-556.

Campbell, N.A., & Reece, J.B. (2002). *Biology* (6th ed.). Glenview, Illinois: Pearson Education, Inc.

Chamber, L., Woodrow, S., Brown, A.P., Harris, P.D., Phillipis, D., Hall, M., *et al.* (2003). Degradation of extracellular matrix components by defined proteinases from the greenbottle larvae *Lucilia sericata* used for the clinical debridement of non-healing wound. *British Journal of Dermatology*, 148, 14-23.

Cornelis, P. (2008). *Pseudomonas: Genomics and molecular biology*. Norfolk, UK: Caister Academic Press.

Courtenay, M. (1999). The use of larval therapy in wound management in the UK. *Wound Care*, 8, 177-179.

Church, J.C. (1996). The traditional use of maggots in wound healing, and the development of larval therapy (biosurgery) in modern medicine. *Journal of Alternative and Complementary Medicine*, 2, 525-527.

Daeschlein, G., Mumcuoglu, K.Y., Assadian, O., Hoffmeister, B., & Kramer, A. (2007). *In vitro* antibacterial activity of *Lucilia sericata* maggot secretions. *Skin Pharmacology and Physiology*, 20, 112-115.

Dennison, C. (2003). *A guide to protein isolation*. (2nd ed.). The Netherlands: Kluwer Academic Publishers.

Duerden, B.I. (1994). Virulence factors in anaerobes. *Clinical Infectious Diseases*, 18, 253-259.

Duncan, J.T. (1926). On a bactericidal principle present in the alimentary canal of insects and arachnids. *Parasitology*, 18, 238-252.

Eichler, M.J., & Carlson, M.A. (2005). Modeling dermal granulation tissue with the linear fibroblast-populated collagen matrix: A comparison with the round matrix model. *Journal of Dermatological Science*, 41(2), 97-108.

Erdmann, G.R., & Khalil, S.K.W. (1986). Isolation and identification of two antibacterial agents produced by a strain of *Proteus mirabilis* isolated from larvae of screwworm. *Journal of Medical Entomology*, 23, 208-211.

Erzinclioglu, Z. (1996). Naturalist's handbook: Blowflies. Slough: Richmond Publishing Co. Ltd.

Friedman, M., Henika, P.R., & Mandrell, R.E. (2003). Antibacterial activities of phenolic benzaldehydes and benzoic acids against *Campylobacter jejuni*, *Escherichia coli*, *Listeria monocytogenes* and *Salmonella enterica*. *Journal of Food Protection*, 66, 1811- 1821.

Greenhalgh, D.G. (1998). The role of apoptosis in wound healing. *The International Journal of Biochemistry and Cell Biology*, 30 (9), 1019-1030.

Halbert, A.R., Stacey, M.C., Rohr, J.B., & Jopp-McKay, A. (1992). The effect of bacterial colonization on venous ulcer healing. *Australasian Journal of Dermatology*, 33, 75- 80.

Hall, M.J.R., & Wall, R. (1995). Myiasis of humans and domestic animals. *Advances in Parasitology*, 35, 257-334.

Hobson, R.P. (1931). On an enzyme from blowfly larvae (*Lucilia sericata*) which digests collagen in alkaline solution. *Biochemical Journal*, 25, 1458-1463.

Horobin, A.J., Shakesheff, K.M., Woodrow, S., Robinson, C., & Pritchard, D.I. (2003). Maggots and wound healing: an investigation of the effects of secretions from *L. sericata* larvae upon interactions between human dermal fibroblasts and extracellular matrix components. *British Journal of Dermatology*, 148, 923-933.

Howell-Jones, R.S., Wilson, M.J., Hill, K.E. Howard, A.J., Price, P.E., & Thomas, D.W. (2005). A review of the microbiology, antibiotic usage and resistance in chronic skin wounds. *Journal of Antimicrobial Chemotherapy*, 55, 143-149.

Huberman, L., Gollop, N., Mumcuoglu, K.Y., Breuer, E., Bhusare, S.R., Shai, Y., et al. (2007). Antibacterial substances of low molecular weight isolated from the blowfly, *Lucilia sericata*. *Medical and Veterinary Entomology*, 21, 127-131.

Husain, Z.S., & Fallat, L.M. (2003). Maggot therapy for wound debridement in a traumatic foot-degloving injury: A case report. *The Journal of Foot and Ankle Surgery*, 42(6), 371-376.

Jaklic, D., Lapanje, A., Zupancic, K., Smrke, D., & Gunde-Cimerman, N. (2008). Selective antimicrobial activity of maggots against pathogenic bacteria. *Journal of Medical Microbiology*, 57, 617-625.

Jennifer, M.A. (2001). Determination of minimum inhibitory concentration. *Journal of Antimicrobial Chemotherapy*, 48, 5-16.

Jones, G., & Wall, R. (2008). Maggot-therapy in veterinary medicine. *Research in Veterinary Science*, 85, 394-398.

Jukema, G.N., Menon, A.G., Bernards, A.T., Steenvoorde, P., Taheri Rastegar, A., & van Dissel, J.T. (2002). Amputation-sparing treatment by nature: “surgical” maggots revisited. *Clinical Infectious Diseases*, 35, 1566-1571.

Kerridge, A., Lappin-Scott, H., & Stevens, J.R. (2005). Antibacterial properties of larval secretions of the blowfly, *Lucilia sericata*. *Medical and Veterinary Entomology*, 19, 333-337.

Lerch, K., Linde, H.J., Lehn, N., & Grifka, J. (2003). Bacteria ingestion by blowfly larvae: an *in vitro* study. *Dermatology*, 207, 362-366.

McKellar, Q.A. (1998). Antimicrobial resistance: a veterinary perspective. *British Medical Journal*, 317, 610-611.

Midwood, K.S., Williams, L.V., & Schwarzbauer, J.E. (2004). Tissue repair and the dynamics of the extracellular matrix. *The International Journal of Biochemistry and Cell Biology*, 36 (6), 1031-1037.

Millar, D.A., & Ratcliffe, N.A. (1987). The antibacterial activity of the hemichordate *Saccoglossus ruber* (Enteropneusta). *Journal of Invertebrate Pathology*, 50, 191-200.

Mumcuoglu, K.Y., Ingber, A., Gilead, A., Stessman, J., Friedmann, R., Schulman, H., et al. (1998). Maggot therapy for the treatment of diabetic foot ulcers. *Diabetes Care*, 21, 2030-2031.

Mumcuoglu, K.Y., Ingber, A., Gilead, A., Stessman, J., Friedmann, R., Schulman, H., et al. (1999). Maggot therapy for the treatment of intractable wounds. *International Journal of Dermatology*, 38, 623-627.

Mumcuoglu, K.Y., Miller, J., Mumcuoglu, M., Friger, F., & Tarshis, M. (2001). Destruction of bacteria in the digestive tract of the maggot of *Lucilia sericata* (Diptera:Calliphoridae). *Journal of Medical Entomology*, 38, 161-166.

Nigam, Y., Bexfield, A., Thomas, S., & Ratcliffe N.A. (2006a). Maggot therapy: the science and implication for CAM part I – History and bacterial resistance. *Evidence-based Complementary and Alternative Medicine*, 3(2), 223-227.

Nigam, Y., Bexfield, A., Thomas, S., & Ratcliffe N.A. (2006b). Maggot therapy: the science and implication for CAM part II – maggots combat infection. *Evidence-based Complementary and Alternative Medicine*, 3(3), 303-308.

Nuesch, R., Rahm, G., Rudin, W., Steffen, I., Frei, R., Rufli, T., et al. (2002). Clustering of bloodstream infections during maggot debridement therapy using contaminated larvae of *Protophormia terraenovae*, 30, 306-309.

Otvos, L., & Cudic, M. (2007). Broth microdilution antibacterial assay for peptides. *Methods in Microbiology*, 386(2), 309-320.

Pankey, G.A., & Sabath, L.D. (2004). Clinical relevance of bacteriostatic versus bactericidal mechanisms of action in the treatment of Gram-positive bacterial infections. *Clinical Infectious Diseases*, 30(5), 755-756.

Parnes, A., & Lagan, K.M. (2007). Larval therapy in wound treatment: A review. *International Journal of Clinical Practice*, 61, 488-493.

Patton, T., Barrett, J., Brennan, J., & Moran, N. (2006). Use of a spectrophotometric bioassay for determination of microbial sensitivity to manuka honey. *Journal of Microbiological Methods*, 64(1), 84-95.

Paul, A.G., Ahmad, N.W., Lee, H.L., Ariff, A.M., Saranum, M., Naicker, A.S., & Osman, Z. (2009). Maggot debridement therapy with *Lucilia cuprina*: a comparison with conventional debridement in diabetic foot ulcers. *International Wound Journal*, 6(1), 39-46.

Pechter, E.A., & Sherman, R.A. (1983). Maggot therapy: the medical metamorphosis. *Plastic and Reconstructive Surgery*, 72, 567-570.

Pelle, M.T., & Miller, O.F. (2001). Debridement of necrotic eschar with 40% urea paste speeds healing of residual limbs and avoids further surgery. *Archives of Dermatology*, 137, 1288-1290.

Prete, P.E. (1997). Growth effects of *Phaenicia sericata* larval extracts on fibroblasts: mechanism for wound healing by maggot therapy. *Life Sciences*, 60, 505-510.

Rayner, K. (1999). Larval therapy in wound debridement. *Professional Nurse*, 14, 329-333.

Richard, P., Floch, R.L., Chamoux, C., Pannier, M., Espaze, E., & Richet, H. (1994). *Pseudomonas aeruginosa* outbreak in a burn unit: role of antimicrobials in the emergence multiply resistant strains. *Journal of Infectious Diseases*, 170, 377-383.

Robinson, W., & Norwood, V.H. (1933). The role of surgical maggots in the disinfection of osteomyelitis and other infected wounds. *Journal of Bone and Joint Surgery*, 15, 409-412.

Robinson, W., & Norwood, V.H. (1934). Destruction of pyogenic bacteria in the alimentary tract of surgical maggots implanted in infected wounds. *Journal of Laboratory and Clinical Medicine*, 19, 581-586.

Robinson, W. (1935). Stimulation of healing in non-healing wounds: by allantoin occurring in maggot secretions and of wide biological distribution. *Journal of Bone and Joint Surgery*, 17, 267-271.

Sherman, R.A., Wyle, F.A., & Vulpe, M. (1995). Maggot debridement therapy for treating pressure ulcers in spinal cord injury patients. *The Journal of Spinal Cord Medicine*, 18, 71-74.

Sherman, R.A., Hall, M.J.R., & Thomas, S. (2000). Medicinal maggots: an ancient remedy for some contemporary afflictions. *Annual Review of Entomology*, 45, 55-81.

Sherman, R.A., Stevens, H., Ng, D., & Iversen, E. (2007a). Treating wounds in small animals with maggot debridement therapy: a survey of practitioners. *The Veterinary Journal*, 173, 138-143.

Sherman, R.A., Morrison, S., & Ng, D. (2007b). Maggot debridement therapy for serious horse wounds – a survey of practitioners. *The Veterinary Journal*, 174, 86-91.

Sievert, D.M., Boulton, M.L., Stoltzman, G., Johnson, D., Stobierski, M.G., Downes, F.P., et al. (2002). *Staphylococcus aureus* resistant to vancomycin. *Morbidity and Mortality Weekly Report*, 51, 565-567.

Simmons, S. (1935). A bactericidal principle in excretions of surgical maggots which destroyed important etiological agents of pyogenic infections. *Journal of Bacteriology*, 30, 253-267.

Stevens, J., & Wall, R. (1997). Genetic variation in populations of the blowflies *Lucilia cuprina* and *Lucilia sericata* (Diptera: Calliphoridae). Random amplified polymorphic DNA analysis and mitochondrial DNA sequences. *Biochemical Systematics and Ecology*, 25(2), 81-87.

Stoddard, S.R., Sherman, R.M., Manson, B.A., & Pelsang, D.J. (1995). Maggot debridement therapy: an alternative treatment for non-healing ulcers. *Journal of the American Podiatric Medical Association*, 85, 218-221.

Thomas, S., Jones, M., Shutler, S., & Jones, S. (1996). Using larvae in modern wound management. *Journal of Wound Care*, 5, 60-69.

Thomas, S., Andrews, A.M., Hay, N.P., & Bourgoise, S. (1999). The anti-microbial activity of maggot secretions: result of a preliminary study. *Journal of Tissue Viability*, 9(4), 127-132.

Thomas, S., & Jones, M. (2000). Maggots can benefit patients with MRSA. *Practice Nursing*, 20, 101-104.

Trengove, N.J., Stacey, M.C., McGechie, D.F., & Mata, S. (1996). Qualitative bacteriology and leg ulcer healing. *Journal of Wound Care*, 5, 277-280.

van der Plas, M.J.A., van der Does, A.M., Baldry, M., Dogterom-Ballering, H.C.M., van Gulpen, C., van Dissel, J.T., et al. (2007). Maggot excretions/secretions inhibit multiple neutrophil pro-inflammatory responses. *Microbes and Infections*, 9, 507-514.

- Vistnes, L., Lee, R., & Ksander, A. (1981). Proteolytic activity of blowfly larvae secretions in experimental burns. *Surgery*, 90, 835-841.
- Weil, G.C., Simon, R.J., & Sewardner, W.R. (1933). A biological, bacteriological and clinical study of larval or maggot therapy in the treatment of acute or chronic pyogenic infections. *American Journal of Surgery*, 19, 36-48.
- Whitman, W., Coleman, D., & Wiebe, W. (1998). Prokaryotes: The unseen majority. *Proceedings of the National Academy of Sciences of the United States of America*, 95(12), 6578–6583.
- Wollina, U., Liebold, K., Schmid, W.D., Hartmann, M., & Fassler, D. (2002). Biosurgery supports granulation and debridement in chronic wounds clinical data and remittance spectroscopy. *International Journal of Dermatology*, 2002, 41, 635-639.
- Ziffren, S.E., Heist, H.E., May, S.C., & Womack, N.A. (1953). The secretion of collagenase by maggots and its implications. *Annals of Surgery*, 932-934.