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DOB	September 1, 1975
Place OB	Krakow, Poland
Citizenship	Polish
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Education:

M.Sc., Jagiellonian University, Krakow, Poland, Molecular Biology, 2000

Professional Experience:

- 2004 - present, Research Technician III, Whitman Laboratory, Department of Microbiology, University of Georgia, Athens, GA, USA
- 2002 -2004, Laboratory Technician I, Travis Laboratory, Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA, USA
- 2001- 2004, Doctorate Student, Jagiellonian University, Krakow, Poland, Faculty of Biotechnology, Department of Microbiology
- 1999-2002, Laboratory Technician, Jagiellonian University, Krakow, Poland, Department of Microbiology and Immunology

Publications :

- **Sieprawska-Lupa M**, Liu Y, Whitman WB and White RH. Biosynthesis of Fe-S clusters in the archaeon *Methanococcus maripaludis*. To be submitted.
- K. Guzik, M. Bzowska, J. Smagur, O. Krupa, **M. Sieprawska**, J. Travis, J. Potempa. A new insight into phagocytosis of apoptotic cells: photolytic enzymes divert the recognition and clearance of polymorphonuclear leukocytes by macrophages. *Cell Death and Differentiation*, 14: 171-182, 2007
- Porat, I., **Sieprawska-Lupa, M.**, Teng, Q., Bohanon F.J., White, R.H. and Whitman, W.B. Biochemical and genetic characterization of an early step in a novel pathway for the

biosynthesis of aromatic amino acids and p-aminobenzoic acid in the archaeon *Methanococcus maripaludis*. *Mol. Microbiol.* 62: 1117-31, 2006

- Melissa M. Kendall, Yitai Liu, **Magdalena Sieprawska-Lupa**, Karl O. Stetter, William B. Whitman, and David R. Boone. *Methanococcus aeolicus* sp. Nov., a mesophilic, methanogenic archaeon from shallow and deep marine sediments. *International Journal of Systematic and Evolutionary Microbiology*, 56: 1525-9, 2006.
- **Sieprawska-Lupa M**, Mydel P, Krawczyk K, Wójcik K, Puklo M, Lupa B, Suder P, Silberring J, Reed M, Pohl J, Shafer W, McAleese F, Foster T, Travis J, Potempa J. Degradation of Human Antimicrobial Peptide LL-37 by *Staphylococcus aureus*-Derived Proteinases. *Antimicrobial Agents and Chemotherapy*. 48(12): 4673-4679, 2004.
- Ally N, Whisstock JC, **Sieprawska-Lupa M**, Potempa J, Le Bonniec BF, Travis J, Pike RN. Characterization of the specificity of arginine-specific gingipains from *Porphyromonas gingivalis* reveals active site differences between different forms of the enzymes. *Biochemistry*. 42(40), 11693-700. 2003.
- McAleese FM, Walsh EJ, **Sieprawska M**, Potempa J, Foster TJ. Loss of clumping factor B fibrinogen binding activity by *Staphylococcus aureus* involves cessation of transcription, shedding and cleavage by metalloprotease. *The Journal of Biological Chemistry*. 276(32), 29969-78. 2001.

Funding Received:

- Polish State Committee for Scientific Research (KBN): Staphylococcal proteolytic enzymes and susceptibility of *Staphylococcus aureus* to antibacterial cationic peptides. 20000 PLN (5000 USD), 2002 - 2003.

Title of Master Thesis:

"Antibacterial properties of few serum proteins" (English translation).

Teaching:

2001-2002, General Microbiology, Immunology

Meetings:

- Iris Porat, **Magdalena Sieprawska-Lupa**, Robert H. White and William B. Whitman. An early step of the archaeal pathway for the biosynthesis of aromatic amino acid. Gordon Research Conferences. *Archaea: Ecology, Metabolism & Molecular Biology* 2005

- Lupa B, **Sieprawska-Lupa M**, and Wiegel J. Nonoxidative Hydroxyarylic Acid Reversible Decarboxylases: A novel Gene/Enzyme Family. 105th General Meeting of American Society for Microbiology, Atlanta, GA, USA, June 2005
- Lupa B, Lyon D, Shaw L, **Sieprawska-Lupa M**, and Wiegel J. A Novel Non-oxidative *Bacillus subtilis* Vanillate Decarboxylase. 104th General Meeting of American Society for Microbiology, New Orleans, LA, USA, May 2004
- Lupa B, Shaw L, **Sieprawska-Lupa M**, and Wiegel J. Antisense RNA inactivation of *Bacillus subtilis* BsdB (YclB). Annual Meeting of Southeastern Branch of American Society for Microbiology, Athens, GA, USA, October/November 2003
- **Sieprawska M**, Golonka E, Wojcik K, and Potempa J. Inactivation of LL-37 by proteolytic enzymes from *Staphylococcus aureus*. 2nd General Meeting of the International Proteolysis Society, Freising/Munich, Germany, November 2001

Laboratory Skills:

Protein Analysis

SDS-PAGE, Native PAGE, ELISA, zymography, Western Blot, BCA, protein chromatography (FPLC, HPLC), proteolytic activity assays,

Microbiology

Cultivation of aerobic and anaerobic bacteria, large scale growth of anaerobes (800 L), isolation of the novel microbial species, calculation of LD₅₀, MIC, MBC, radial diffusion assay, microscopic preparations,

Molecular Biology

Isolation of genomic DNA and plasmid DNA, PCR, agarose gel electrophoresis, restriction digestion, cloning, transformation,

Bioinformatics

DNA and amino acid sequence comparison, phylogenetic analysis, data mining,

Additional Courses:

Certificate of Advanced Radiation Worker, 2006.