IMMUNOLOGY I PANEL

Series Editors:

John E. Murphy, Pharm.D., FCCP, FASHP

Professor of Pharmacy Practice and Science Associate Dean University of Arizona College of Pharmacy Phoenix, Arizona

Mary Wun-Len Lee, Pharm.D., FCCP, BCPS

Vice President and Chief Academic Officer Pharmacy and Optometry Education Professor of Pharmacy Practice Midwestern University Chicago College of Pharmacy Downers Grove, Illinois

Faculty Panel Chair:

Joseph S. Bubalo, Pharm.D., BCPS, BCOP

Oncology Clinical Pharmacy Specialist Assistant Professor of Medicine Oregon Health and Science University Hospital and Clinics Portland, Oregon

SYSTEMIC LUPUS ERYTHEMATOSUS

Authors

Joshua Wiegel Pharm.D., BCPS

Clinical Pharmacist Department of Pharmacy University of Wisconsin Hospital and Clinics Madison, Wisconsin

Janet M. Bramell, Pharm.D., BCPS, BCOP

Clinical Pharmacy Specialist, Oncology Department of Pharmacy VA Tennessee Valley Healthcare System Nashville, Tennessee

Reviewers

Jessica Lassiter, Pharm.D., BCPS

Medication Safety Clinical Supervisor Department of Pharmacy Oregon Health and Sciences University Portland, Oregon

Stephanie Shamsie, Pharm.D., BCPS Round Rock, Texas

HEMATOPOIETIC STEM CELL TRANSPLANTATION

Authors

Alex Ganetsky, Pharm.D., BCOP

Clinical Pharmacy Specialist – Hematology/BMT Department of Pharmacy Hospital of the University of Pennsylvania Philadelphia, Pennsylvania

Dragos Plesca, Pharm.D., Ph.D., BCOP

Oncology Clinical Pharmacy Manager Department of Pharmacy Levine Cancer Institute, Atrium Health Charlotte, North Carolina

Reviewers

Teresa Thakrar, Pharm.D., BCOP

Hematology/Stem Cell Transplant Clinical Pharmacist Department of Pharmacy Indiana University Health Indianapolis, Indiana

Geneen M. Gibson, M.S., Pharm.D., BCPS (AQ-ID)

Coordinator, Antimicrobial Management Program Infectious Disease Pharmacy Specialist Department of Pharmacy St. Joseph's/Candler Health System Savannah, Georgia

Lucas Miyake Okumura, BSPharm, BCPS

Clinical Pharmacist Clinical Pharmacy Division Hospital de Clinicas de Porto Alegre Porto Alegre, Brazil *Health Economics and Outcomes Research* HEOR Division Market Access and Patient Engagement Solutions São Paulo, Brazil

The American College of Clinical Pharmacy and the authors thank the following individuals for their careful review of the Immunology I chapters:

Anne L. Hume, Pharm.D., FCCP, BCPS

Professor of Pharmacy Department of Pharmacy Practice University of Rhode Island Kingston, Rhode Island Adjunct Professor of Family Medicine Alpert School of Medicine at Brown University Providence, Rhode Island

Ralph H. Raasch, Pharm.D., FCCP, BCPS

Associate Professor of Pharmacy (retired) Division of Practice Advancement and Clinical Education Eshelman School of Pharmacy The University of North Carolina at Chapel Hill Chapel Hill, North Carolina

DISCLOSURE OF POTENTIAL CONFLICTS OF INTEREST

Consultancies: Alexandre Chan (Merck, Sharp, and Dohme); Alex Ganetsky (Jazz Pharmaceuticals, Genentech, Juno Therapeutics); Geneen M. Gibson (American Society of Health-System Pharmacists, State of Georgia Department of Public Health, Georgia Society of Health-System Pharmacists, ACCP Infectious Diseases PRN); Ashley E. Glode (Radius Specialty Solutions); Angela A. Hsieh (FHCRC Institutional Review Board); Elizabeth Koselke (Westminster Village North); Cindy O'Bryant (Sandoz, Bristol Myers Squibb, Pfizer); Alison Palumbo (Oncology Reimbursement Management); Dragos Plesca (AstraZenica, Pfizer, Sandoz); Megan Reimann (NCI PDQ Supportive and Palliative Care Board)

Stock Ownership: Angela A. Hsieh (Seattle Genetics, Juno Therapeutics)

Royalties:

Grants: Cindy L. O'Bryant (Tesaro, Astra, National Cancer Institute); Dragos Plesca (American Society for Blood and Marrow Transplantation)

Honoraria: Alex Ganetsky (Amgen); Cindy L. O'Bryant (University Learning Systems); Teresa Kam Thakrar (American Society for Blood and Marrow Transplantation); Dragos Plesca (AstraZeneca)

Other:

Nothing to disclose: Val Adams; Sumana Alex; Susan Alu; Maria Teresa Ambrosini; Cassie A. Barton; Jesse Bierman; Janet Bramell; Ashley S. Brown; Sherrill J. Brown; Susan M. Bullington; Kimberli M. Burgner; Sheh-Li Chen; Brooke Sorgen Crawford; Amber H. Diaz; Michelle L. Ganoff; Christina Guerra; Kelly N. Hecht; Maha O. Kebir; Lydia R. Kraemer; Jessica Lassiter; Elaine Law; Kelli M. Leong; Jeremy A. Lund; Lucas Miyake Okumura; Kristen Rau; Nothing to disclose Stephanie Shamsie; Joshua Wiegel

ROLE OF BPS: The Board of Pharmacy Specialties (BPS) is an autonomous division of the American Pharmacists Association (APhA). To maintain its strict, independent standards for certification, BPS does NOT endorse or provide review information, preparatory courses, or study guides for Board Certification Examinations. The Board, through its specialty councils, is responsible for specialty examination content, administration, scoring, and all other aspects of its certification programs. BPS is totally separate and distinct from ACCP. PSAP has been approved by BPS for use in BCPS recertification. Information about the BPS recertification process is available <u>online</u>.

Questions regarding BPS specialty recertification should be directed to:

Board of Pharmacy Specialties 2215 Constitution Avenue NW Washington, DC 20037 (202) 429-7591

MISSING COI FORMS Val Adams Elizabeth Koselke Kelli M. Leong Cindy L. O'Bryant Alison Palumbo: Dragos Plesca: