resume\_102@gmail.com  
435 128 6388  
Shannon Warburton Senior Scientist - MERCK AND CO. /GLYCOFI  
Thetford VT - Email me on Indeed: indeed.com/r/Shannon-Warburton/8387a1ee5c766e6c  
WORK EXPERIENCE  
Senior Scientist  
MERCK AND CO. /GLYCOFI - June 2008 to Present  
Enabled expression of novel and follow-on human therapeutic proteins and peptides in glyco-engineered Pichia pastoris  
 Supported key improvements to the glyco-engineered Pichia pastoris platform which included cell line robustness recombinant protein yield improvement and increasing N-glycosylation occupancy to 100%  
 Provided data and support for manuscripts and patent submissions and presented data biannually at departmental meetings  
 March 2010 - February 2013 Department Safety Representative  
 March 2012 - February 2013 5S Committee Department Representative  
 Awarded Merck Research Labs Award of Excellence for outstanding efforts and contributions preparing for the 2013 Environmental Health and Safety Audit.  
 Awarded Merck Research Labs Award of Excellence for outstanding efforts and contributions on the N-glycan occupancy improvement to 100% (November 2009)  
Staff Biologist-Strain Development  
MERCK AND CO. /GLYCOFI - June 2006 to January 2008  
Supported glyco-engineered Pichia pastoris platform improvement studies Provided data and support for manuscripts patent submissions  
Research Associate II-Strain Development  
MERCK AND CO. /GLYCOFI - January 2004 to June 2006  
Enabled production of therapeutic proteins in glyco-engineered Pichia pastoris  
 Supported Principal Scientists in glyco-engineering and humanization of Pichia pastoris cell lines.  
Research Associate I-Strain Development  
MERCK AND CO. /GLYCOFI - October 2003 to January 2004  
Executed experiments to genetically engineer Pichia pastoris to perform human N-glycosylation.  
 Supported and designed experiments to increase yield of recombinant proteins in glyco-engineered Pichia pastoris  
Laboratory Technician-Department of Pharmacology and Toxicology  
DARTMOUTH COLLEGE - Hanover NH - June 2001 to September 2003  
Managed laboratory day to day operations  
 Provided technical direction to laboratory staff  
 Assisted in the design of and the execution of experiments for analysis of cellular and molecular effects of synthetic and naturally occurring derivatives of retinoids  
Laboratory Technician-Department of Medicine  
DARTMOUTH COLLEGE - Hanover NH - June 1999 to May 2001 Performed mouse breeding experiments  
   
 Utilized molecular biological techniques to genotype mice colonies Placed lab orders and handled paper work.  
Intern-Department of Pathology  
DARTMOUTH COLLEGE - Hanover NH - January 1999 to April 1999  
Interned and completed Senior Project required to graduate from Vermont Technical College  
EDUCATION  
Bachelor of Science in Biotechnology  
GRANITE STATE COLLEGE - West Lebanon NH May 2010  
Associate's in Sciences Biotechnology  
VERMONT TECHNICAL COLLEGE-Randolph - Randolph VT May 1999  
SKILLS  
Molecular biology and biochemical techniques and assays including: DNA manipulations; microbiology  
of bacterial and fungal systems; PCR; RT-PCR; chemical and UV mutagenesis; Protein A Purification  
SDS PAGE Western Blot; Northern and Southern Blots; sterile technique; yeast and mammalian cell cultures; and microscopy Recombinant therapeutic protein production in Glyco-engineered Pichia  
pastoris Engineering of heterologous metabolic pathways in yeast Environmental Health and Safety departmental representative for period of three years Experienced in new lab set-up and management; and 5S certification process  
ADDITIONAL INFORMATION  
PUBLICATIONS  
(1) Kim S Warburton S Boldoth I Svensson C Pon L d'Anjou M Stadheim TA Choi BK.  
Regulation of alcohol oxidase 1 (AOX1) promoter and peroxisome biogenesis in different fermentation processes in Pichia pastoris. J Biotechnol. 2013 Jul [...]  
(2) Choi BK Warburton S Lin H Patel R Boldoth I Meehl M d'Anjou M Pon L Stadheim TA Sethuraman N. Improvement of N-glycan site occupancy of therapeutic glycoproteins produced in Pichia pastoris. Appl Microbiol Biotechnol. 2012 [...]  
(3) Choi BK Actor JK Rios S d'Anjou M Stadheim TA Warburton S Giaccone E Cukan M Li H Kull A Sharkey N Gollnick P Kocieba M Artym J Zimecki M Kruzel ML Wildt S.  
Glycoconj J. Recombinant human lactoferrin expressed in glycoengineered Pichia pastoris: effect of terminal N-acetylneuraminic acid on in vitro secondary humoral immune response.2008 [...]  
(4) White KA Yore MM Warburton SL Vaseva AV Rieder E Freemantle SJ Spinella MJ.  
Negative feedback at the level of nuclear receptor coregulation. Self-limitation of retinoid signaling by RIP140.J Biol Chem. 2003 Nov [...]  
(5) Freemantle SJ Kerley JS Olsen SL Gross RH Spinella MJ. Developmentally-related candidate retinoic acid target genes regulated early during neuronal differentiation of human embryonal carcinoma. Oncogene. 2002 Apr [...]  
(6) Kerley JS Olsen SL Freemantle SJ Spinella MJ. (co-author) Transcriptional activation of the nuclear receptor corepressor RIP140 by retinoic acid: a potential negative-feedback regulatory mechanism. Biochem Biophys Res Commun. 2001 Jul [...]