

CVs for Key Personnel

BIOGRAPHICAL SKETCH: Jon K. Magnuson

Education:

1986 B.S. Biochemistry, University of Minnesota, Minneapolis, MN
1993 Ph.D. Biochemistry, University of Minnesota, Minneapolis, MN
1993-1997 Postdoctoral Fellow, USAF Armstrong Laboratory, Tyndall AFB, FL
1997-1998 Postdoctoral Fellow, US Army Edgewood Research and Development Center, MD
1998-2001 Postdoctoral Fellow, Pacific Northwest National Laboratory, Richland, WA

Appointments:

2004-present Senior Research Scientist II, Pacific Northwest National Laboratory, Richland, WA
2001-2004 Senior Research Scientist I, Pacific Northwest National Laboratory, Richland, WA

Recognitions and Awards:

- Exceptional Contributor Performance Award, Pacific Northwest National Laboratory (2010)
- Exceptional Contributor Performance Award, Pacific Northwest National Laboratory (2009)
- Key Contributor Award, Pacific Northwest National Laboratory (2008)
- US Public Health Service Graduate Training Grant (1987-1990)

Selected Publications 2008-11:

- Igor V. Grigoriev, Daniel Cullen, Stephen B. Goodwin, David Hibbett, Thomas W. Jeffries, Christian P. Kubicek, Cheryl Kuske, Jon K. Magnuson, Francis Martin, Joseph W. Spatafora, Adrian Tsang & Scott E. Baker (2011) Fueling the future with fungal genomics. *Mycology*
- Ohm RA, de Jong JF, Lugones LG, Aerts A, Kothe E, Stajich JE, de Vries RP, Record E, Levasseur A, Baker SE, Bartholomew KA, Coutinho PM, Erdmann S, Fowler TJ, Gathman AC, Lombard V, Henrissat B, Knabe N, Kues U, Lilly WW, Lindquist E, Lucas S, Magnuson JK, Piumi F, Raudaskoski M, Salamov A, Schmutz J, Schwarze FW, vanKuyk PA, Horton JS, Grigoriev IV, Wösten HA. (2011) Genome sequence of the model mushroom *Schizophyllum commune*. *Nature Biotechnology* 28(9):957-63
- Mikael R. Andersen, Margarita P. Salazar, Peter J. Schaap, Peter J.I. van de Vondervoort, David Culley, Jette Thykaer, Jens C. Frisvad, Kristian F. Nielsen, Richard Albang, Kaj Albermann, Randy M. Berka, Gerhard H. Braus, Susanna A. Braus-Stromeyer, Luis M. Corrochano, Ziyu Dai, Piet W.M. van Dijck, Gerald Hofmann, Linda L. Lasure, Jon K. Magnuson, Hildegard Menke, Martin Meijer, Susan L. Meijer, Jakob B. Nielsen, Michael L. Nielsen, Albert J.J. van Ooyen, Herman J. Pel, Lars Poulsen, Rob A. Samson, Hein Stam, Adrian Tsang, Johannes M. van den Brink, Alex Atkins, Andrea Aerts, Harris Shapiro, Jasmyn Pangilinan, Asaf Salamov, Yigong Lou, Erika Lindquist, Susan Lucas, Jane Grimwood, Igor V. Grigoriev, Christian P. Kubicek, Diego Martinez, Noel N.M.E. van Peij, Johannes A. Roubos, Jens Nielsen, and Scott E. Baker. (2011) Comparative genomics of citric-acid-producing *Aspergillus niger* ATCC 1015 versus enzyme-producing CBS 513.88. *Genome Research* 21(6): 885-97
- Stéphane Le Crom, Wendy Schackwitz, Len Pennacchio, Jon K. Magnuson, David E. Culley, James R. Collett, Joel Martin, Irina S. Druzhinina, Hugues Mathis, Frédéric Monot, Bernhard Seiboth, Barbara Cherry, Michael Rey, Randy Berka, Christian P. Kubicek, Scott E. Baker, and Antoine Margeot. (2009) Tracking the roots of cellulase hyperproduction by the fungus *Trichoderma reesei* using massively parallel DNA sequencing. *Proceedings of the National Academy of Sciences* 106(38): 16151–16156
- Diego Martinez, Jean Challacombe, Ingo Morgenstern, David Hibbett, Monika Schmoll, Christian P. Kubicek, Patricia Ferreira, Francisco J. Ruiz-Duenas, Angel T. Martinez, Phil Kersten, Kenneth E. Hammel, Amber Vanden Wymelenberg, Jill Gaskell, Erika Lindquist, Grzegorz Sabat, Sandra

Splinter BonDurant, Luis F. Larrondo, Paulo Canessa, Rafael Vicuna, Jagjit Yadav, Harshavardhan Doddapaneni, Venkataramanan Subramanian, Antonio G. Pisabarro, Jose´ L. Lavín, Jose´ A. Oguiza, Emma Master, Bernard Henrissat, Pedro M. Coutinho, Paul Harris, Jon Karl Magnuson, Scott E. Baker, Kenneth Bruno, William Kenealy, Patrik J. Hoegger, Ursula Kües, Preethi Ramaiya, Susan Lucas, Asaf Salamov, Harris Shapiro, Hank Tu, Christine L. Chee, Monica Misra, Gary Xie, Sarah Teter, Debbie Yaver, Tim James, Martin Mokrejs, Martin Pospisek, Igor V. Grigoriev, Thomas Brettin, Dan Rokhsar, Randy Berka, and Dan Cullen. (2009) Genome, transcriptome, and secretome analysis of wood decay fungus *Postia placenta* supports unique mechanisms of lignocellulose conversion. *Proceedings of the National Academy of Sciences* 106(6): 1954-1959

- Zhou K, EA Panisko, JK Magnuson, SE Baker, and I Grigoriev. (2009) “Proteomics for Validation of Automated Gene Model Predictions.” in *Methods Mol. Biol.* 492: 447-452.
- Iva Jovanovic, Jon K. Magnuson, Frank Collart, Barbara Robbertse, William S. Adney, Michael E. Himmel and Scott E. Baker. (2009) Fungal glycoside hydrolases for saccharification of lignocellulose: outlook for new discoveries fueled by genomics and functional studies. Volume 16, Number 4. 687-697
- Shary, Semarjit; Kapich, Alexander N.; Panisko, Ellen A.; Magnuson, Jon K.; Cullen, Daniel; Hammel, Kenneth E. (2008) Differential Expression in *Phanerochaete chrysosporium* of Membrane-Associated Proteins Relevant to Lignin Degradation. *Applied and Environmental Microbiology* 74-23: 7252-7257
- Martinez, Diego; Berka, Randy M.; Henrissat, Bernard; Saloheimo, Markku; Arvas, Mikko; Baker, Scott E.; Chapman, Jarod; Chertkov, Olga; Coutinho, Pedro M.; Cullen, Dan; Danchin, Etienne G. J.; Grigoriev, Igor V.; Harris, Paul; Jackson, Melissa; Kubicek, Christian P.; Han, Cliff S.; Ho, Isaac; Larrondo, Luis F.; de Leon, Alfredo Lopez; Magnuson, Jon K.; Merino, Sandy; Misra, Monica; Nelson, Beth; Putnam, Nicholas; Robbertse, Barbara; Salamov, Asaf A.; Schmoll, Monika; Terry, Astrid; Thayer, Nina; Westerholm-Parvinen, Ann; Schoch, Conrad L.; Yao, Jian; Barbote, Ravi; Nelson, Mary Anne; Detter, Chris; Bruce, David; Kuske, Cheryl R.; Xie, Gary; Richardson, Paul; Rokhsar, Daniel S.; Lucas, Susan M.; Rubin, Edward M.; Dunn-Coleman, Nigel; Ward, Michael; Brettin, Thomas S. (2008) Genome sequencing and analysis of the biomass-degrading fungus *Trichoderma reesei* (syn. *Hypocrea jecorina*) *Nature Biotechnology*, 26-5: 553-560

Professional Organizations:

- Society for Industrial Microbiology
- American Society for Microbiology
- American Chemical Society
- Phycolgical Society of America

Recent Professional Activities:

- Member: Editorial Board, *Applied and Environmental Microbiology*
- Ad hoc reviewer: *Metabolomics*, *Mycologia*, *FEMS*, *Carbohydrate Research*, *Antonie van Leeuwenhoek*, *Plos One*, *Journal of Proteomics Research*, *Journal of Bacteriology*, etc.
- Reviewer: DOE SBIR proposals (Stage I and Stage II)
- Reviewer: DOE-OBP, proposals and Stage Gate project reviews
- Reviewer: Technology Foundation STW, OTP proposals, Netherlands
- Guest Lecturer: ChemE 560, “Biochemica engineering” at Washington State University
- Guest Lecturer: ChemE 597, “Advanced fermentation technology for biofuels and bioproducts” at Washington State University

Postdoctoral research supervision:

Shuang Deng, Postdoctoral associate (PNNL)
 James Collett, Postdoctoral associate (PNNL)
 Ellen Panisko, Postdoctoral associate (PNNL)