ROBERT E. WYATT
660 Loving Way.
Bowling Green, KY 42104
270.535.7346

Education

Indiana University	B.S. with Honors	1986	Biology
University of Georgia	Ph.D.	1992	Molecular Biology

Dissertation

Expression Patterns of Two Developmentally Regulated Gene Families – under Dr. J.L. Key

Employment/Experience

Associate Professor of Biology	2012-
Director of Distance Learning	2001-2012
Associate Professor of Biology	2008-2010
Assistant Professor of Biology	2000-2008
Multimedia Specialist/Instructor, Western Kentucky University	1998-2000
Assistant Professor of Biology, University of the Virgin Islands	1992-1998
Biology Program Coordinator, University of the Virgin Islands	1994-1996
Post-Doctoral Research Associate, Dept. of Biochemistry, U. of GA	1992
Asst. Part Time Professor, Evening Division, University of Georgia,	1989-1991
Graduate Teaching Assistant, Dept. of Botany, University of Georgia	1986-1991
Undergraduate Teaching Assistant, Biology Dept, Indiana University	1985-1986

Recent Publications
Journals:

- o Marcus, J.M., T. M. Hughes, D. M. McElroy, and R. E. Wyatt. 2010. Engaging First Year Undergraduates in Hands-On Research Experiences: The Upper Green River Barcode of Life Project. Journal of College Science Teaching 39 (3): 39-45. UGRBP Barcode of Life
- o Zhuhadar Leyla, Olfa Nasraoui, Robert Wyatt, "Metadata as Seeds for Building an Ontology Driven Information Retrieval System", *International Journal of Hybrid Intelligent Systems* (IOS Press), 2009.
- o Zhuhadar Leyla, Olfa Nasraoui, Robert Wyatt, "Designing an Ontology-based Information Retrieval System in E-learning Domain System", *Data & Knowledge Engineering* (DKE) (Elsevier).

- Marcus et al. 2009 "Engaging First Year Undergraduates in Hands-On Research Experiences: The Upper Green River Barcode of Life Project". Journal of the Kentucky Academy of Science 70 (1): 75-83.

Older

"Adaptive Web-based Educational Platforms" in Technology Enhanced Learning: Best Practices (2008). Zhuhadar, Olfa Nasraoui, and Wyatt. Ed. Huang, Gasevic, and Lytras, IDEA Groups. Online Biology Pre-Labs, first steps to online labs. Robert Wyatt. Syllabus, June 2003.   Peer Reviews (1)
General Biology Online prelabs   avg: ⭐⭐⭐⭐
 General Biology OnLine PreLabs (Simulation)   Collections (4)
Author: Robert Wyatt
A series of interactive exercises used to prepare students for the actual Lab exercises. Prelabs return...
Type: Simulation Date Added: Jul 30, 2001

- Wyatt, R.E., R.T. Nagao, and J.L. Key. (1992). Expression Patterns of the Soybean Proline-rich Protein Gene Family. The Plant Cell 4,1; 99-111.
- Wyatt, R.E., W.M. Ainley, R.T. Nagao, T.W. Conner, and J.L. Key. (1993) Expression of the Arabidopsis AtAux2-11 Auxin-responsive gene in transgenic plants. Plant Molecular Biology 22:731-749.

In-proceedings Publications

- Zhuhadar Leyla, Nasraoui Olfa, Elizabeth Romero, and Robert Wyatt, "Multi-Language Ontology-based Search Engine" The Third International Conference on Advances in Computer-Human Interactions. ACHI 2010. February 10-16, 2010 - St. Maarten, Netherlands Antilles
- Zhuhadar Leyla, Nasraoui Olfa, and Robert Wyatt, "Multi-model Ontology-based Hybrid Recommender System in E-learning Domain", The 2009 IEEE /WIC/ACM International Conferences on Web Intelligence (WI'09)",15–18 September 2009, Università degli Studi di Milano Bicocca, Milano, Italy.
- Zhuhadar Leyla, Nasraoui Olfa, Robert Wyatt, "Automated Discovery, Categorization and Retrieval of Personalized Semantically Enriched E-

learning Resources ", *The Third IEEE International Conference on Semantic Computing (ICSC-09)*, Berkeley, CA, USA - September 14-16, 2009.

- o Zhuhadar Leyla, Nasraoui Olfa, Robert Wyatt, "Evaluating Multi-Model (Metadata - Semantic) Information Retrieval System", *ICAI'09 - The 2009 International Conference on Artificial Intelligence*, Las Vegas, Nevada,USA, 2009.
- o Zhuhadar Leyla, <u>Nasraoui Olfa</u>, Robert Wyatt, "How to Build an Ontology Driven Information Retrieval System in E-learning Domain", *IKE'09 - The 2009 International Conference on Information and Knowledge Engineering*, Las Vegas, Nevada, USA, 2009.
- o Zhuhadar Leyla, <u>Nasraoui Olfa</u>, Robert Wyatt, "Visual Ontology-based Information Retrieval System", *IV 2009 : The 13th IEEE International Conference on Information Visualisation: OSINT-WM - Open Source Intelligence and Web Mining*, Pompeu Fabra University (UPF), Barcelona, Spain, 2009.
- o Zhuhadar Leyla, <u>Nasraoui Olfa</u>, Robert Wyatt, "Model Driven Architecture: How to re-model an E-learning Web-based System to be ready for the Semantic Web?", <u>AIED 2009</u> (<u>IOS Press</u>): *The International Conference on Artificial Intelligence in Education, <u>SWEL'09: Ontologies and Social Semantic Web for Intelligent Educational Systems</u>*, Brighton, UK, 2009.

Presentations/Other

- o [Campus Technology Webinar](#) - "Eliminating Barriers in Lecture Capture: Providing Equal Education for Disabled Students" . May 25, 2010.
- o Robert Wyatt. "Bridging the Gap between Academics and IT". Tegrity User Conference. 2010. Louisville, Kentucky.
- o Zhuhadar Leyla and Robert Wyatt. Innovative usage and practical solution for closed captioning". Tegrity User Conference. 2009. San Francisco, California.
- o Romero, E. and Zhuhadar, L. and Wagner, C. and Wyatt, R., "Web-Based Technology Use and Computer Self-Efficacy as Predictors of Faculty Perceptions of Support for the Implementation of eLearning", ELML'09, 2009 Cancun, Mexico.
- o Zhuhadar, L. and Romero, E. and Wyatt, R., "The Effectiveness of Personalization in Delivering E-learning Classes", Advances in Computer-Human Interactions, 2009. ACHI'09, Cancun, Mexico.
- o Zhuhadar Leyla, Nasraoui Olfa, Robert Wyatt, "Dual Representation of the Semantic User Profile for Personalized Web Search in an Evolving Domain",

AAAI 2009 Spring Symposia: Social Semantic Web: Where Web 2.0 Meets Web 3.0, March 23-25, 2009, Stanford, California.

- Zhuhadar Leyla, Nasraoui Olfa, Robert Wyatt, "Metadata Domain-knowledge Driven Search Engine in "HyperManyMedia" E-learning Resources",CSTST-08: International Conference on Soft Computing as Transdisciplinary Science and Technology, IEEE Systems, Man, and Cybernetics Society , EUSFLAT society, European Neural Network Society, IEEE France Section, and in Cooperation with ACM SIGAPP.fr, October 27-31, 2008, Cergy Pontoise, Paris, France.
- Zhuhadar Leyla, Nasraoui Olfa, Wyatt Robert, "A Comparison Study Between Generic and Metadata Search Engines in an E-learning Environment", IKE'08 - The 2008 International Conference on Information and Knowledge Engineering, July, 2008, Las Vegas, Nevada.
- Zhuhadar Leyla, Nasraoui Olfa, Wyatt Robert, "Knowledge Mining for Adaptive Multimedia Web-based Educational Platform", Book Chapter: Technology Enhanced Learning: Best Practices, April, 2008, Idea Group, 2008.
- "HyperManyMedia Enriched E-learning Resources". Leyla Zhuhadar and Robert Wyatt*. First International Conference of the new Canadian Network for Innovation in Education (CNIE). April 27-30, 2008. Banff, Alberta, Canada.
- "ManyMedia platform for a Web-based Educational materials". Leyla Zhuhadar and Robert Wyatt*. 13th Sloan-C International Conference on Online Learning. Nov 7-9, 2007. Orlando, FL.
- "A 'Manymedia' Solution for Distance Ed. Students". Robert Wyatt* and Leyla Zhuhadar. Engaging the Spirit 2007: Tools for Student Success. Bowling Green, Kentucky August 20, 2007.
- "Using the DELO Testing Center for Student Success" Pam Wilson*, Tabitha Spain*, Margie Bowker* and Robert Wyatt*. Engaging the Spirit 2007: Tools for Student Success. Bowling Green, Kentucky August 20, 2007.
- (Invited) "Accessibility Compliance in Distance Learning: Barrier-Free Multimedia" L. Zhujadar and R. Wyatt*. Multimedia Educational Resource for Learning and Online Teaching – MERLOT Seventh International Conference. August 7-9, 2007 New Orleans, Louisiana.
- "Knowledge Mining for an Adaptive Multimedia Web-based Educational Platform" Leyla Zhuhadar*, Olfa Nasraoui, and Robert Wyatt. 13th International Conference on Artificial Intelligence in Education (Conference paper) July 9-13, 2007. Los Angeles, CA.
- "Accessibility Compliance in Distance Learning: Barrier-Free Multimedia" l. Zhujadar and R. Wyatt EDUCAUSE Learning Initiative Annual

Meeting"Creating a Successful Learning Culture: Connecting Learners, Communities, and Information" January 22–24, 2007, Atlanta, Georgia.

- Consultant for the College Board, (NY., NY.) as they investigated the validity of online labs in A.P. science courses ([New York Times 10/20/2006](#))
- "Developing online courses and Virtual Labs: Very Viable" - Invited Keynote Speaker, Innovative Professor Conference. Aug. 16-18, 2006 Austin Peay State University.
- "The Carnegie Unit, "seat time" and alternative course scheduling: More than two ways to skin a cat". Robert Wyatt. At the Engaging the Spirit: Enhancing Student Learning Conference. September 18, 2005, WKU, Bowling Green Kentucky.
- "[A Day in the Life of a Learning Object](#)" Robert Wyatt. At the 5th Annual [MERLOT International Conference](#) "Engaging the Global Community - Looking Over the Horizon", July 25 – 28, 2005, Nashville, Tennessee.
- "A Day in the Life of a Learning Object" Robert Wyatt. At the Kentucky Council on Postsecondary Education conference on the Scholarship of Teaching & Learning: Engaging Students for Success, May 22-23 2005, Lexington, KY.
- "The Tegrity Learning System" Robert Wyatt* and Michael McAllister* (VP Tegrity Corp.). At the Breaking Down Barriers conference, September 30 and October 1, 2004, Erlanger, Kentucky. A joint conference of Connected Learning in Kentucky (CLiK), Kentucky Higher Education Computing Conference (KHECC) and the State-Assisted Academic Library Council of Kentucky (SAALCK). "KYVU and KYVL.
- Keynote Speech and Panel participation: Keynote "Online Labs: A Look at Virtual Laboratories". Robert Wyatt. The Tennessee Board of Regents Online Degree Program E-Learning Academy. Panel Track One: The Pedagogy of Online Teaching and Learning in the Arts, Sciences, Humanities, Education and Nursing; Spanish ~ Math~Nursing~Chemistry ~Biology. The Renaissance Center, Dickson TN. June 21-22, 2004. [RODP presentation](#) June 2004.
- "PDA's and Instruction: Basics" Robert Wyatt and Bill Pfohl.
Faculty Center for Teaching and Learning, Western Kentucky University. February 25, 2004.
- ."Interactive Science Labs" - Syllabus 2003, Panel Session. July 27-30, 2003, San Jose, CA. Stanford University.
- "Online Testing and Assessment" Robert Wyatt. Presented by the Center for Teaching and Learning and the Center for Instructional Technology, Western Kentucky University. June 2002.
- "Dreamweaver 3, a hands-on workshop, making your websites more Interactive". Robert Wyatt. The Instructional Technology -Conference Presented by the Center for Teaching and Learning and the Center for

Instructional Technology, Western Kentucky University. (1.) June 3 & 4, 1999. (2.) May 16-19, 2000.

- o "The Dilemma of Distance Learning". Robert Wyatt - Oct. 27, 2000, Murray State University.
- o "Cloning of Putative Lectin Genes From Tropical Legumes Using PCR" Robert E. Wyatt, Shekema A. Hodge, and Triscia Wharton. Presented at the Caribbean Conference on Isozymes and Gene Families. December 6-10, 1995. Barbados, W.I.
- o "Cloning of Putative Lectin Genes using PCR and Degenerate Primers to the Phytohemagglutinin gene PhyE". Robert E. Wyatt, Shekema A. Hodge, and Triscia Wharton. Presented at the 4th annual Caribbean Food Crop Society Conference, August 1-4, 1994, St. Thomas USVI.

Grants

$ 4,000.00 Junior Faculty Scholarship Award – Western Kentucky University 2000

$108,660.00 MCRE/National Science Foundation 1998
Examination of the DNA-binding Properties of Novel Platinum Compounds - Robert Wyatt and Peter Desrosiers, University of the Virgin Islands, Magda Morales, University of Puerto Rico, Rio Piedras.

$78,220.00 National Institutes of Health 1997: 2S06GM008266-09
Isolation And Expression Of Lectin Genes From Tropical Legumes
Principal Investigator: Robert E. Wyatt, University of The Virgin Islands

Awards

Honors Dept. Undergraduate Teaching Assistantship Award, Ind. U.,	1985
University Wide Research Fellowship, University of Georgia,	1986-1988
McKnight Graduate Research Fellowship, University of Georgia	1988-1989
Dupont Graduate Student National Travel Award, Univ. of Georgia	1988
Outstanding Graduate Teaching Assistant Award, Univ. of Georgia.	1991

Philosophy

Teaching Biology – As a biology professor, my specialty has always been teaching large lecture classes. This role led me to become rather accomplished at using multi media as a teaching device. This, naturally, led to the materials being placed online to increase their accessibility to students. I now design and implement multimedia, interactive, and database driven web sites for my classes using a variety of programming languages and media types.