

## **ELIZABETH E. HOOD, Ph.D.**

Arkansas State University  
PO Box 639  
State University, AR 72467  
Phone: 870-926-9566 (cell)  
Fax: 870-680-4348  
[enzymehood@gmail.com](mailto:enzymehood@gmail.com)

### **SUMMARY**

Forty years of experience in biology. Lipscomb Distinguished Professor of Agriculture at Arkansas State University; CSO of a biotechnology start-up company; Previously, Associate Vice Chancellor for Research and Technology Transfer at A-State; Program Director in Molecular and Cellular Biosciences at the National Science Foundation: Leader in forming one of the world's foremost transgenic plant research groups at ProdiGene, a plant biotechnology company; Director of the cell biology group for plant production of therapeutic proteins at Pioneer Hi-Bred International, a Fortune 500 Company; Internationally recognized for research program and associated expertise as evidenced by over 80 publications and patents as well as invitations to speak nationally and internationally; Ph.D. in Plant biology awarded by Washington University and Master of Science in Botany awarded by Oklahoma State University.

### **PROFESSIONAL EXPERIENCE**

#### **GREENLAB, INC.—Jonesboro, Arkansas 2022-present** Scientific Research Director

- Responsible for applications studies of industrial enzymes to elicit customers
- Responsible for corn transformation for enzymes for remediation and industrial applications
- Responsible for breeding transgenic lines for higher expression
- Communicating science results to management team

#### **ARKANSAS STATE UNIVERSITY—Jonesboro, Arkansas 2004-2022** Lipscomb Distinguished Professor of Agriculture (2008-2022)

- **Chair, AR Research Alliance conference on Bioenergy and Biobased Products, Oct. 2011**
- Senior faculty in agricultural biotechnology
- Director, Center of Excellence for Bio-products—ad hoc faculty research group
- Managed \$3.7 million DOE research grant for enzymes in plants
- Research cluster lead for statewide NSF EPSCoR grant
- Teach plant biotechnology, graduate orientation, experiment to patent, and advanced cell biology
- Honors program representative for college
- PRT (Chair) and graduate committees in college
- University PRT Committee
- Ad Hoc university committee on graduate policy

Associate Vice Chancellor for Research and Technology Transfer. (2004-2008)

#### **EXPERT WITNESS FOR PLANT BIOTECHNOLOGY—Jonesboro, AR 2012-2013**

#### **INFINITE ENZYMES, LLC—Jonesboro, AR 2006-2022**

CEO, Responsible for fund-raising and scientific decisions as well as partnerships  
Incorporated company in July, 2006 to commercialize enzymes for industrial applications; Currently addressing issues for cost-effective enzymes for the cellulosic ethanol industry

#### **INFINITE-EVERSOLE STRATEGIC CROP SERVICES, LLC—Jonesboro, AR 2009-present**

CEO, Responsible for agreements, budget, grant-writing and scientific consultation with programmers  
Incorporated company in April 2009, as a joint venture between Infinite Enzymes and Eversole Associates to address issues in deregulation of Specialty Crops and for small crop developers

#### **NATIONAL SCIENCE FOUNDATION – Arlington, Virginia 2003-2004**

Program Director, Molecular and Cellular Biosciences, Signal Transduction/Cellular Regulation program

**PRODIGENE - College Station, Texas** **1997 - 2003**

Principal Investigator, SBIR grants, Industrial Proteins (2003)

Vice President, Industrial Proteins Business Unit (2002)

Vice President, Technology (1999 - 2002)

Director, Cell Biology (1997 - 1999)

**PIONEER HI-BRED INTERNATIONAL - Johnston, IA** **1994 - 1996**

Research Manager, Cell Biology

**UTAH STATE UNIVERSITY, Logan UT** **1988 - 1994**

Assistant Professor of Biology

**SWEDISH UNIV. OF AGRICULTURAL SCIENCES, Uppsala, Sweden** **1988**

Visiting Researcher

**WASHINGTON UNIVERSITY, St. Louis MO** **1981 - 1988**

Ph.D. student and Post-doctoral research associate

**EDUCATION**

Ph.D. Washington University, St. Louis, MO, Plant Biology 1985  
M.S. Oklahoma State University, Stillwater, OK, Botany 1980  
B.A. University of Oklahoma, Norman, OK, Sociology 1974

**OTHER PROFESSIONAL EXPERIENCE**

2019 Member of Center for Bioenergy Innovation, BRC, review panel  
2017-2020 Review Committee Member, BMGF project, Madrid Spain  
2017-2020 Member, Biomass R&D Technical Advisory Committee, USDA, DOE  
2015-2021 Consultant, Lee Enterprises, Little Rock, AR  
2014-2018 Member-at-large, Executive Committee AAAS Ag Division  
2014 DoE BER Workshop Lead for program review  
2014 Science Foundation of Ireland Impact Panel Member for science centers  
2013, 2015 Member of Great Lakes Bioenergy Center Review Panel  
2015 Member of BioEnergy Research Center Review Panel  
2013 Primary Reviewer of European COST Action Program  
2013-2015 Advisory Board, Ag Innovation Development Group, Memphis, TN  
2012-2013 Expert Witness, International Biotechnology law suit  
2011-2018 Chair, Advisory Board, AR Advanced Energy Foundation, Little Rock, AR  
2009-2014 Advisory Board, AgBioWorks Foundation, Memphis, TN  
2011 Chair, ARA conference on Biobased Products and Bioenergy  
2002-present Advisory Board, Plant Biotechnology Journal  
2005-2007 Handling Editor, Reviews Editor, Plant Biotechnology Journal  
2004-present Specialty Crops Regulatory Assistance Executive Committee  
1990-present Grant Panels: USDA Risk Assessment; NSF BES; Teacher Prep & Enhancement; USDA Non-Food Uses of Crops; NSF MRI  
2003-Present Editorial Board, Transgenic Research  
2000-2007 Member, Faculty of 1000, Agricultural Biotechnology

**HONORS AND PROFESSIONAL AFFILIATIONS**

Chancellor's Medal for Research and Creative Activities, Arkansas State Univ. 2022  
Fellow, American Association for the Advancement of Science, 2019  
Woman of the Year, BPW A-State Jonesboro chapter, 2018  
Distinguished Alum, Dept. of Plant Biol., Ecology and Evol, Oklahoma State Univ. 2017  
Academic Professional of the Year, Who's Who Worldwide 2012  
Fellow, American Society of Plant Biologists, 2010  
Member, American Society of Plant Biologists (ASPB) 1977-present  
Member-at-Large, AAAS Section on Agric, Food & Renewable Resources. 2014-2018  
Chair, Board of Trustees, ASPB 2004-2005; Board of Trustees, ASPB 2002-2005

Candidate for President, ASPB 2002  
Executive Committee, ASPB 2002, 2005  
Chair, ASPB Women in Plant Biology Committee, 2001-2002  
Member, International Society for Plant Molecular Biology  
Member, Society for In Vitro Biology  
2000-Woman to Watch, Business & Professional Women, Brazos County, TX  
Sigma Xi, Phi Kappa Phi

## **REFEREED PUBLICATIONS**

### **Molecular farming**

- Hood, E.E.**, D.R. Witcher, S. Maddock, T. Meyer, C. Baszczynski, M. Bailey, P. Flynn, J. Register, L. Marshall, D. Bond, E. Kulisek, A. Kusnadi, R. Evangelista, Z. Nikolov, C. Wooge, R.J. Mehig, R. Hernan, W.K. Kappel, D. Ritland, C.P. Li and J.A. Howard 1997 **Commercial production of avidin from transgenic maize: Characterization of transformant, production, processing, extraction and purification.** Molecular Breeding 3:291-306 (**357**)
- Witcher, D.R., **E.E. E. Hood**, D. Peterson, M. Bailey, D. Bond, A. Kusnadi, R. Evangelista, Z. Nikolov, C. Wooge, R. Mehig, W. Kappel, J.C. Register, and J.A. Howard 1998 **Commercial production of  $\beta$ -glucuronidase (GUS): A model system for the production of proteins in plants.** Molecular Breeding 4:301-312 (**148**)
- Kusnadi, A.R., **E.E.Hood**, D.R. Witcher, J.A. Howard and Z.L. Nikolov 1998 **Production and purification of two recombinant proteins from transgenic corn** Biotechnol. Prog. 14:149-155 (**158**)
- Kusnadi, AR, RL Evangelista, **EE Hood**, JA Howard and ZL Nikolov 1998 **Processing of transgenic corn seed and its effect on the recovery of recombinant  $\beta$ -Glucuronidase** Biotechnol and BioEngineering 60:44-52 (**91**)
- Zhong, G.Y., D. Peterson, D.E. Delaney, M. Bailey, D.R. Witcher, J.C. Register III, D. Bond, C.-P. Li, L. Marshall, E. Kulisek, D. Ritland, T. Meyer, **E.E. E. Hood** and J.A. Howard 1999 **Commercial production of aprotinin in transgenic maize seeds** Molecular Breeding 5: 345-356 (**145**)
- Hood, E.** and J. Howard 1999 **Protein products from transgenic plants** Agro-Food-Industry Hi-Tech, 3, Vol.10, May/June pp. 35-36
- Hood, E.** and J. Jilka 1999 **Plant based production of xenogenic proteins** Current Opinion in Biotechnology, 10:4, 382-386 (**139**)
- Jilka, J.M., **E.E. E. Hood**, R. Dose and J.A. Howard 1999 **The benefits of proteins produced in transgenic plants.** AgBiotechNet, Vol. 1, September, ABN 027
- Streatfield, S. J., J. M. Jilka, **E. E. E. Hood**, D. D. Turner, M. R. Bailey, J. M. Mayor, S. L. Woodard, K. K. Beifuss, M. E. Horn, D. E. Delaney, I. R. Tizard and J. A. Howard 2001 **Plant-based vaccines: unique advantages;** Vaccine 19:2742-2748 (**283**)
- Streatfield, S.J., J.M. Mayor, D.K. Barker, C. Brooks, B.J. Lamphear, S.L. Woodard, K.K. Beifuss, D.V. Vicuna, L.-A. Massey, M.E. Horn, D.E. Delaney, Z.L. Nikolov, **E.E. E. Hood**, J.M. Jilka and J.A. Howard 2002 **Development of an edible subunit vaccine in corn against enterotoxigenic strains of *Escherichia coli*.** In Vitro Cell. Dev. Biol.-Plant 38:11-17 (Highlighted in 'In Vitro Report')
- Hood, E.E.** 2002 **From Green Plants to Industrial Enzymes** Enzyme and Microbial Technology 30:279-283 (**89**)

- Hood, E.E., Z.L. Nikolov 2002 **Making therapeutic proteins in transgenic corn. Tutorial: Manufacturing low-cost, high-purity, clinical-grade proteins in corn** Genetic Engineering News 22:48
- Hood, E.E., S.L. Woodard and M.E. Horn 2002 **Antibody manufacturing in transgenic plants: Myths and Realities** Current Opinion in Biotechnology, 13, 630-635 (187)
- Lamphear, B.J., Streatfield, S.J., Jilka, J.M., Brooks, C.A., Barker, D.K., Turner, D.D., Delaney, D.E., Garcia, M., Wiggins, B., Woodard, S.L., Hood, E.E., Tizard, I.R., Lawhorn, B. and Howard, J.A. 2002 **Delivery of subunit vaccines in maize seed.** J. Controlled Release, 85. 169-180 (150)
- Hood, E.E., M.R. Bailey, K. Beifuss, M. Horn, M. Magallanes-Lundback, C. Drees, D. E. Delaney, R. Clough and J. A. Howard 2003 **Criteria for high-level expression of a fungal laccase gene in transgenic maize** Plant Biotechnology Journal. 1, 129-140
- Streatfield, S.J., Lane, J.R., Brooks, C.A., Barker, D.K., Poage, M.L., Mayor, J.M., Lamphear, B.J., Drees, C.F., Jilka, J.M., Hood, E.E. and Howard, J.A. 2003 **Corn as a production system for human and animal vaccines** Vaccine 21:812-815 (142)
- Bailey, M.R., S.L. Woodard, E. Callaway, K Beifuss, D. Delaney, M. Magallanes-Lundback, J. Lane, M.E. Horn, M. Ward, F. Van Gastel, J.A. Howard, E.E. Hood 2004 **Improved recovery of active recombinant laccase from maize seed** Applied Microbiology and Biotechnology 63(4):390-7, (2003 Epub) (57)
- Woodard, S.L., J.M. Mayor, M.R. Bailey, D.K. Barker, R.T. Love, J.R. Lane, D.E. Delaney, J.M. McComas-Wagner, H.D. Mallubhotla, E.E. Hood, L.J. Dangott, S.E. Tichy and J.A. Howard. 2003 **Maize-derived bovine trypsin: Characterization of the first large-scale, commercial protein product from transgenic plants.** Biotechnology and Applied Biochemistry 38:123-130 (153)
- Streatfield, S.J., M.E. Magallanes-Lundback, K.K. Beifuss, C.A. Brooks, R.L. Harkey, R.T. Love, J. Bray, J.A. Howard, J.M. Jilka and E.E. Hood. 2004 **Analysis of the maize polyubiquitin-1 promoter heat shock elements and generation of promoter variants with modified expression characteristics.** Transgenic Research 13(4): 299-312 (28)
- Lamphear, BJ DK Barker, CA Brooks, DE Delaney, JR Lane, K Beifuss, R Love, K Thompson, J Mayor, R Clough, R Harkey, M Poage, C Drees, ME Horn, SJ Streatfield, Z Nikolov, SL Woodard, EE Hood JM Jilka, and JA Howard. 2005 **Expression of the Sweet Protein Brazzein in Maize for Production of a New Commercial Sweetener** Plant Biotechnology J 3:103-114 (44)
- Hood, EE 2004 **Bioindustrial and Biopharmaceutical Products from Transgenic Plants** Online publication at 4<sup>th</sup> ICSC, Brisbane Australia  
[http://www.cropscience.org.au/icsc2004/symposia/3/5/1955\\_hoode.htm](http://www.cropscience.org.au/icsc2004/symposia/3/5/1955_hoode.htm) (8)
- Howard, JA and Hood, EE. 2005 **Bioindustrial and Biopharmaceutical Products Produced in Plants** Adv in Agron 85:91-124 (56)
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- Devaiah, Shivakumar Pattada, Vicuna Requesens, Deborah, Chang, Yeun-Kyung, Hood, Kendall R, Flory, Ashley, Howard, John A. and **Hood, Elizabeth E**; **Heterologous expression of cellobiohydrolase II (Cel6A) in maize endosperm**; Transgenic Research—Plant; 22 (3):477-488; DOI 10.1007/s11248-012-9659-2. (7)
- Egelkrout, Erin, McGaughey, Karen, Keener, Todd, Ferleman, Amberlyn, Woodard, Susan, Devaiah, Shivakumar, Nikolov, Zivko, **Hood, Elizabeth**, Howard, John. 2013; **Enhanced expression levels of cellulase enzymes using multiple transcription units**; Bioenergy Research, 6 (2):699-710 DOI 10.1007/s12155-012-9288-x. (4)
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- Hood, N.C., K.R. Hood, S.L. Woodard, S.P. Devaiah, T. Jeoh, L. Wilken, Z. Nikolov, E. Egelkrout, J.A. Howard, and **E.E. Hood**; 2014; **Purification and Characterization of Recombinant Cel7A from Maize Seed**. Applied Biochemistry and Biotechnology; DOI 10.1007/s12010-014-1232-4
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- McHughen, A, Bradford, KJ, Carter, N, Eriksson, D, Grabau, E, Hood, E, Parrott, W, Wolt, J. 2018. **Regulatory Barriers to the Development of Innovative Agricultural Biotechnology by Small Businesses and Universities**; CAST Issue Paper, Number 59, March 2018
- Vicuna Requesens, DV, Gonzalez Romero, ME, Ring, R, Phillips, C, Hood, NC, Flory, AR, Marbaniang, CD, Howard, JA and **Hood, EE**; **Assessment of endosperm-specific promoters to drive expression of cellulases in maize endosperm**; 2019; Transgenic Research: <https://doi.org/10.1007/s11248-019-00162-1>
- Hood EE**, Eversole KA, Leach L, Hogan M, McHughen A, Cordts J, Rathore K, Rood T, Collinge S & Irey M: 2019; Report on the SCRA Nuts and Bolts Workshop II: case studies of citrus greening, Ultra-low Gossypol Cotton, and blight tolerant, low-acrylamide potato. *GM Crops & Food: Biotechnology in Agriculture and the Food Chain*; 3 (10):139-158
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- Rogers, Anna, Dunne, Jeffrey C., Romay, Cinta, et al., (Jan. 4 2021) The Importance of Dominance and Genotype-by Environment Interactions on Grain Yield Variation in a Large-Scale Public Cooperative Maize Experiment; *G3: Genes|Genomes|Genetics*. 2021, 11(2): jkaa050 | 4 January 2021 doi:10.1093/g3journal/jkaa050
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### Plant cell walls

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- Hood, E.E.**, K.R. Hood and S.E. Fritz 1991 **Hydroxyproline-rich glycoproteins in cell walls of pericarp from maize**. *Plant Science*. 79:13-22 (**29**)
- Fritz, S.E., K.R. Hood, and **E.E. Hood** 1991 **Localization of soluble and insoluble fractions of hydroxyproline-rich glycoproteins during maize kernel development**. *J. Cell Sci.* 98:545-550 (**21**)
- Hood, K.R., R.A. Baasiri, S.E. Fritz, and **E.E. Hood** 1991 **Biochemical and tissue print analyses of hydroxyproline-rich glycoproteins in cell walls of sporophytic maize tissues**. *Plant Physiol.* 96:1214-1219 (**24**)
- Murphy, J.M. and **E.E. Hood** 1993 **Molecular basis of the size heterogeneity of extensin from two maize varieties**. *Plant Mol. Biol.* 21:885-893 (**11**)
- Hood, E.E.**, J.M. Murphy and R.C. Pendleton 1993 **Molecular characterization of maize extensin expression**; *Plant Mol. Biol.* 23:685-695 (**10**)
- Flory, A.R., Vicuna Requesens, D., Devaiah, S.P, Teoh, K, Mansfield, S.D and **Hood, E.E.** 2013. **Development of a green binder system for paper products**; *BMC Biotechnology*; 13:28 <http://www.biomedcentral.com/1472-6750/13/28> (**4**)
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Kandhola, G, Rajan, K, Labbe, N, Chmely, S, Heringer, N, Kim J-W, **Hood, EE**, Carrier DJ; 2017; **Beneficial effects of *Trametes versicolor* pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood.** *RSC Adv.*, 2017,7, 45652-45661

Fang, H, Kandhola, G, Rajan K, Dijoleu A, Carrier DJ, Hood KR, and **Hood EE**; 2018; Effects of Oligosaccharides Isolated from Pinewood Hot Water Pre-hydrolyzates on Recombinant Cellulases. *Front Bioeng Biotech* 15,6:55. doi: 10.3389/fbioe.2018.00055.

Fang, H. & Hood, E. E. An Arabinoxylan Extracted from Corn Grain Is Inhibitory to Cellulase Activity *Industrial Biotechnology*. Volume: 16. Issue: 5. 2020

### **Agrobacterium**

**Hood, E.E.**, G Jen, L Kayes, J Kramer, RT Fraley, and M.-D Chilton; 1984; Restriction endonuclease map of pTi Bo542, a potential Ti plasmid vector for genetic engineering of legumes. *Bio/Technology* 2:702-708 **(97)**

Chilton, W.S., **E.E. Hood** and M.-D Chilton 1985; Absolute stereochemistry of leucinopine, a crown gall opine. *Phytochem.* 24:221-224 **(19)**

Chilton, W.S., **E.E. Hood**, K.L. Rinehart, Jr., and M.-D Chilton 1985 L,L-succinamopine: An epimeric crown gall opine. *Phytochem.* 24:2945-2948 **(23)**

**Hood, E.E.**, G.L. Helmer, R.T. Fraley and M.-D. Chilton 1986; The hypervirulence of *Agrobacterium tumefaciens* A281 is encoded in a region of pTiBo542 outside of T-DNA. *J.Bacteriol.* 168:1291-1301 **(854)**

**Hood, E.E.**, W.S. Chilton, M.-D. Chilton and R.T. Fraley 1986 T-DNA and opine synthetic loci in tumors incited by *Agrobacterium tumefaciens* A281 on soybean and alfalfa plants. *J. Bacteriol.* 168:1283-1290 **(46)**

**Hood, E.E.**, R.T. Fraley, and M.-D. Chilton 1987 Virulence of *Agrobacterium tumefaciens* strain A281 on legumes. *Plant Physiol.* 83:529-534 **(78)**

**Hood, E.E.**, D.H. Clapham, I. Ekberg and T. Johansson 1990 T-DNA presence and opine production in tumors of *Picea abies* (L.) Karst induced by *Agrobacterium tumefaciens* A281. *Plant Mol. Biol.* 14:111-117 **(31)**

Clapham, D., I. Ekberg, G. Eriksson, **E.E. E. Hood**, and L. Norell 1990 Within-population variation in susceptibility to *Agrobacterium tumefaciens* A281 in *Picea abies* (L.) Karst. *Theor. Appl. Genet.* 79:654-656 **(15)**

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### **Other**

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- Hood, E.E.** "Selecting the Fruits of Your Labors" 2003. Trends in Plant Science. 8:357-358.
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- Izadyar, A., Ni Van, My, Rodriguez, Kayleigh Amber, Seok, Ilwoo, and **Hood, Elizabeth E.**; A Biezymatic Amperometric Glucose Biosensor Based on using a Novel Recombinant Mn Peroxidase from Corn and Glucose Oxidase with a Nafion membrane. 2021. J. Electroanal. Chem. 895:
- Izadyar, A., My Ni Van , Marcela Miranda , Scout Weatherford, **Elizabeth E Hood**, Ilwoo Seok Development of a highly sensitive glucose nanocomposite biosensor based on recombinant enzyme from corn. J Sci Food Agric 2022 Nov; 102(14):6530-6538.

### **BOOKS**

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- Howard, JA and **EE Hood**, Eds., ***Commercial Plant-Produced Recombinant Protein Products: Case Studies, 2014***; *Series: Biotechnology in Agriculture and Forestry*; Springer, Dordrecht, Netherlands, 281 pp.

### **BOOK CHAPTERS**

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1. Commercial Production of Avidin in Plants—5,767,379: C. Baszczynski, **E.E. Hood**, S. Maddock, T. Meyer, J. Register, D. Witcher, J. Howard. Issued 6/16/1998
2. Commercial Production of  $\beta$ -Glucuronidase in Plants—5,804,694: W. Bruce, **E.E. Hood**, D. Peterson, J. Register, D. Witcher, J. Howard. Issued 9/08/1998
3. Commercial Production of Aprotinin in Plants — 5,824,870: C. Baszczynski, T. Czaplak, **E. E. Hood**, T. Meyer, D. Peterson, G. Rao, J. Register, D. Witcher, J. Howard. Issued 10/20/1998
4. Commercial Production of Proteases in Plants — 6,087,558: **E.E. Hood**, J. Howard. Issued 7/11/2000
5. Commercial Production of Proteases in Plants — 7,049,484: **E.E. Hood**, J. Howard. Issued 5/23/2006
6. Commercial Production of Laccase in Plants — 6,800,792: J. Howard, **E.E. Hood**, J. Jilka. Issued 10/05/2004
7. Novel Plant Promoter Sequences and Methods of Use for Same— J. Jilka, **E.E. Hood**, J. Howard. 6,977,325, Issued 12/20/2005; RE41,318 (reissued 5/4/2010)
8. Method of Increasing Recovery of Heterologous Active Enzymes Produced in Plants—6,632,930: **E.E. Hood**, J. Howard, M. Bailey, F. van Gastel, H. Wang, M. Ward, S. Woodard. Issued 10/14/2003
9. Method of Increasing Heterologous Protein Expression in Plants—Issued 7,541,515; **E.E. Hood**, J. Howard, D. Delaney. Issued 6/2/2009
10. Commercial production of recombinant manganese-dependent peroxidase in plants— 7,067,726 **E.E. Hood**, J. Howard, R. Clough, K. Pappu. Issued 6/27/2006
11. Methods for commercial production of heterologous laccase in plant tissue and extraction of the laccase from plant seed—7,071,384; J. Howard, **E.E. Hood**, M. Bailey-Piathek; Issued 7/04/2006
12. Monocotyledonous seed expressing exo-1,4  $\beta$ -glucanase—8,558,058; **E.E. Hood** and J. Howard; Issued, 10/15/2013
13. Methods of expressing and detecting activity of expansin in plant cells—Issued October 2017; US9783817B2; **E.E. Hood**, S. Yoon
14. Regulatory Sequence of Cupin Family Gene—Issued July 2017; US9714429B2; **E.E. Hood**, T. Teoh

15. Medical Device to Detect Glucose In Blood And Other Fluids—Filed June, 2021 A Izadyar; EE Hood

### GRANTS

Ethanol for Arkansas and America, \$3.7 million; September, 2008-December, 2012; Department of Energy; PI: Elizabeth Hood—**funded**

Several smaller EPSCoR related project grants

Genomes to Fields in Arkansas, \$20,437, April 1, 2017-March 31, 2018; Arkansas Corn and Grain Sorghum Board; PI: Elizabeth Hood—**funded**

Plant-Produced Manganese Peroxidase as a Bioremediation Agent, \$149,016, January 1, 2017-December 31, 2019; USDA NIFA Capacity Building; PI: Elizabeth Hood—**funded**

Enzyme Inhibition, \$291,500, January 1, 2016-April 30, 2019; USDA NIFA Capacity Building; PI: Elizabeth Hood—**funded**

Development of a new tool for assessing gene function in corn, \$3,940, July 1, 2016-June 30, 2017; FRAC; PI: Elizabeth Hood--**funded**

Mechanism of Recombinant Protein Accumulation in Maize Seed; \$300,000, May 1, 2018-April 30, 2021, USDA NIFA Capacity Building; PI: Elizabeth Hood—**funded**

Bringing Genomes to Fields to Arkansas, \$18,000, April 1, 2018-February 28, 2019; Arkansas Corn and Grain Sorghum Board; PI: Elizabeth Hood—**not funded**

Data Analysis of Genomes to Fields Tests for Arkansas and Other Southern Test Locations; \$150,000, April 1, 2020-July 31, 2021; USDA NIFA Capacity Building, PI: Argelia Lorence; co-PI E. Hood—**not funded**

An Amperometric Glucose Sensor Using Recombinant Mn Peroxidase and Glucose Oxidase, \$74,039, July 1, 2020-June 30, 2022; Arkansas Biosciences Institute, PI: Anahita Izadyar; co-PI E. Hood—**funded**

Development of a Nano-biosensor to Detect Glucose for Diabetics, using Recombinant Manganese Peroxidase from Corn Grain; \$149,800, May 1, 2021-April 30, 2023; USDA NIFA Capacity Building, PI: Anahita Izadyar; co-PI E. Hood--**funded**

### INVITED PRESENTATIONS—International. Keynote

**Hood, E.E. *A comparison of transformation methods for plants***, 30<sup>th</sup> Annual Symposium of the Korean Breeding Society, Suwon, Korea, Nov. 18-21, 1999

**Hood, E.E. *New century, new technology and new products***; Plenary presentation - 6<sup>th</sup> International Congress of Plant Molecular Biology, Québec, Canada, June 18-24, 2000

**Hood, E.E. *Plant Production Platforms for Industrial Applications***; Plenary presentation; Genome Alberta annual meeting; Banff, Canada, March 18-21, 2007

**Hood, E.E. *Reducing the regulatory Burden for Molecular Farming in the US***; Plenary presentation; COST Action committee, FA0804, Prague, Czech Republic, October 6, 2009

**Hood, E.E. *Manipulating Corn Germplasm to Overexpress Recombinant Proteins***, COST Action committee FA0804, Molecular farming: plants as a production platform for high value proteins; Valencia, Spain, May 6, 2013

**Hood, EE. *Production of Industrial Enzymes in Maize***, Euro Biotechnology 2017, Berlin Germany; September 25, 2017

### INVITED PRESENTATIONS—International

**Hood, E.E., A. Kusnadi, Z. Nikolov and J.A. Howard; *Molecular farming of industrial proteins from transgenic maize***; Molecular Farming Conference, Saskatoon, Canada; October, 1997

**Hood, E.E. *The history and host range of Agrobacterium strains***, Brassica Genetic Technologies for the Future; Montreal Canada, October, 1998

- Hood, E.E. ***Molecular farming of industrial proteins from transgenic maize***. IX Pacific Science Inter-Congress: Sustainable development in the Pacific. Taipei, Taiwan. November, 1998
- Hood, E.E. ***A most a-maize-ing system***, Advances in Plant Production Systems, International Molecular Farming Conference, London, Ontario, Canada, Aug. 29-Sept. 1, 1999
- Hood, E.E. ***The maize production system for edible vaccines and industrial enzymes***; Intl. Symposium of Plant Molecular Farming, Tsukuba, Japan, March 7-8, 2000.
- Hood, E.E. ***From green plants to industrial enzymes***. Third International Symposium on Industrial Proteins, Netherlands Congress Centre, The Hague, The Netherlands, March 15-16, 2001
- Hood, E.E. ***New Century, New Technology and New Products***. Crucell Holland BV. Leiden, The Netherlands. March, 2001
- Hood, E.E. ***New Century, New Technology and New Products***. Nestle Research Center, Laussane, Switzerland. March, 2001
- Hood, E.E. ***New Century, New Technology and New Products***. Syngenta BV. Leiden, The Netherlands. March, 2001
- Hood, E.E. ***Molecular farming in corn to produce industrial enzymes***. High Value-Added Proteins, Cambridge University, UK, July, 2002.
- Hood, E.E. ***Maximizing recombinant protein accumulation in corn***. NIAS-COE International Symposium "Protein Trafficking Mechanism and its Application to Molecular Farming" Tsukuba, Japan, November 11-12, 2003
- Hood, E.E. ***Bioindustrial and Biopharmaceutical Products from Transgenic Plants*** 4<sup>th</sup> International Crop Science Congress, Brisbane Australia, Sept. 26-October 1, 2004
- Hood, E.E. ***Women in Biotechnology—An Academic Perspective***, US-EC Task Force on Biotechnology; June 23-24, 2009, San Francisco, CA
- Hood, E.E. ***Cellulases from the Transgenic Maize Seed Production System***, BIO World Congress on Industrial Biotechnology and Bioprocessing; July 19-22, 2009, Montreal, CA
- Hood, E.E., ***Design and Analysis of Experimental Field Releases of GM Plants—the US Experience***; ISBGMO, Buenos Aires, Argentina, November 19, 2010
- Hood, E.E. ***Status and regulation of non-food/feed crops in the USA***; ISBGMO, Buenos Aires, Argentina, November 17, 2010
- Hood, E.E., Howard, J.A. ***Utilizing Plant-Produced Enzymes for Biomass Conversion***; World Biotechnology Congress; Boston, MA USA, June 3-6, 2013
- Hood E.E., ***Plant-based Production of Industrial Proteins***. Cambridge Healthtech Institute's Inaugural Plant-Based Expression and Synthetic Biology; January 10-11, 2017, San Diego, CA
- Hood EE, ***Molecular Pharming for Health, Nutrition and the Environment***; National University of Ireland—Galway; September 11, 2017, Galway, Ireland
- Hood, Elizabeth E, Joshua Byrd, Uyen Tran; ***Redox enzymes from the corn grain production system remediate azo-dyes***; IAPB Quadrennial meeting, August 22, 2018; Dublin Ireland

INVITED PRESENTATIONS —National, Keynote

- Hood, E.E. ***Maize production system for edible vaccines & industrial enzymes***, Keynote speaker at the Annual Meeting of the Arkansas Biotechnology Association, Little Rock, Arkansas, September 15, 1999.

Hood, E.E. ***Using the corn seed biofactory to produce enzymes for industrial applications***, Keynote symposium speaker at the University of Missouri St. Louis, Biochemistry and Biotechnology program, October 24, 2014.

Hood, E.E. ***Recombinant enzymes, pharmaceuticals and vaccines from plant seeds for commercial applications*** Keynote speaker in the Virginia Tech Translational Plant Sciences graduate student symposium; Blacksburg, VA USA February 22, 2018

INVITED PRESENTATIONS - National

Hood, E.E. ***Molecular similarities among Amaranthus species***. Applications and Prospects of Biotechnology for Arid and Semi-arid Lands., Texas Tech University, 1992

Hood, E.E. ***Commercial production of avidin from transgenic maize***. Dept. of Biochem. and Biophysics, Texas A&M University. March, 1997

Hood, E.E. and J.A. Howard. ***Transgenic corn: A new source of valuable industrial products***. Corn Utilization and Technology Conference. St. Louis, MO June, 1998

Hood, E.E. ***Production of industrial proteins from transgenic maize***. Dept. of Plant Pathology, Texas A&M University. September, 1998

Hood, E.E. and J.A. Howard. ***Commercial production of industrial proteins from transgenic corn***, 90<sup>th</sup> AOCS Annual Meeting & Expo, Marriott's Orlando World Center, Orlando, Florida, May 9-12, 1999

Hood, E.E. ***Novel uses of agricultural crops through biotechnology***, Texas State Extension Conference, Texas A&M University, College Station, TX, July 14-16, 1999

Hood, E.E. ***The maize production system for edible vaccines and industrial enzymes***. 219<sup>th</sup> ACS National Meeting, March 26-30, 2000

Hood, E.E. ***New century, new technology and new products***. Horticulture and Landscape Architecture Seminar, Purdue University, West Lafayette, Indiana, September 21, 2000

Hood, E.E. ***New century, new technology and new products***. IBC's Agricultural Genomics, Coral Gables, Florida, December 6-8, 2000

Hood, E.E. ***Maize as a production system for biopharmaceuticals and industrial enzymes***. Workshop presentation. IBC's Agricultural Genomics, Coral Gables, Florida, December 6-8, 2000

Hood, E.E. ***Riding the Waves***. WISE Conference at TAMU (Achieving your vision), College Station, Texas, February 17, 2001

Hood, E.E. ***Functional products from transgenic plants*** PITTCON 2002, New Orleans, Louisiana, March 2002

Hood, E.E. ***Challenges for commercialization of products from a new technology—pharmaceuticals, vaccines and industrial enzymes from transgenic maize*** USPTO Tech Fair, Washington, D.C., August 2002

Hood, E.E. ***Molecular Farming in Corn to Produce Industrial Enzymes***. Bioengineering group, Iowa State University, Ames, Iowa, Sept. 18, 2002

Hood, E.E. ***Enzymes from the Transgenic Maize Production System—Advantages for producers*** Iowa Biotechnology Association Annual Meeting Sept. 19, 2002

- Hood, E.E. ***Enzymes from the Transgenic Maize Production System*** Iowa Quality Producer's Association Annual Meeting March 28, 2003
- Hood, E.E. ***Transgenic plant-produced cellulases for biomass conversion*** SIVB Society for In Vitro Biology Portland, OR June 4, 2003
- Hood, E.E. ***Production and Application of Proteins from Transgenic Plants*** Ohio State University, Dept. of Plant molecular and cellular biology, May, 2004
- Hood, E.E. ***Commercialization of a Protein Product from Transgenic Maize*** 17<sup>th</sup> National Agricultural Biotechnology Council, Nashville, TN, June 27-29, 2005
- Hood, E.E. ***Bioethanol as a Sustainable Energy Alternative***, for the Memphis BioWorks Development Council series luncheon at the University of Memphis, Memphis TN. July 26, 2006
- Hood, E.E. ***Plant Production Platforms for Industrial Applications***; MAESC, Oxford, MS May 17-18, 2007
- Hood, E.E. ***Cellulase Enzymes from the transgenic maize production system***; Syngenta invited seminar, Raleigh, NC, January 15, 2008
- Hood, E.E. ***Process for Commercialization of Products from Transgenic Plants***; LSU invited seminar, Baton Rouge, LA, April 8, 2008
- Hood, E.E., JA Howard, R Jimenez-Flores, G McChesney ***Maize-Produced Cellulases Degrade Lignocellulosic Feedstocks***; BIO World Congress for Industrial Biotechnology and Bioprocessing, Chicago, IL April 28-30, 2008
- Hood, E.E. ***"Cellulase enzymes for biomass conversion from the transgenic maize production system"***; Worcester Polytechnic Institute conference: Growing Fuel and Medicine: Advancing Biofuels and Plant-Produced Therapeutics; Worcester, MA, October 27, 2008
- Hood, E.E. ***"New Applications of Plants—Bio-Factories for Bio-Based Products"***; Planting Seeds for the Future--New Crops Conference; November 13, 2008
- Hood, E.E. ***"Biomass-based ethanol and renewable resources for the Bio-Economy"***; North Delta AgExpo, Arkansas Farm Bureau; February 5, 2009
- Hood, E.E. ***Biomass-based ethanol and renewable resources for the Bio-Economy***; Lion's Club of Greater Jonesboro, Jonesboro, AR; March 30, 2009
- Hood, EE ***Applications of Plant Biotechnology to Create Biofuels and Biobased products***; Lion's Club of Pochontas, AR; March 31, 2010
- Hood, EE ***Easing the Regulatory Burden Surrounding Biotechnology-Derived Crops***; International Association of Plant Tissue Culture and Biotechnology, St. Louis, MO, June 10, 2010
- Hood, E.E., ***Cellulase from the Transgenic Maize Seed Production System***, Biomass South, October 13, 2010, Memphis, TN
- Hood, E.E., ***The corn seed bio-factory to manufacture enzymes for biofuels and biobased products***, ABI Board of Directors meeting, April 26, 2011, Little Rock, AR
- Hood, E.E., ***Biochemical Platform for Production of Biofuels***; MS State Univ. Extension Biomass and Bioenergy Short Course MSU, August 4, 2011; Starkville, MS
- Hood, E.E., ***Cellulases from the Transgenic Maize Production System***, Inaugural meeting of the MS/MO River Biomass Consortium; January 11, 2012, Columbia, MO

- Hood, E.E., *Infinite Enzymes' SBIR Experiences*, participation in USDA SBIR webinar-- From Submission to Award; Sponsored by ASBTDC in Little Rock; April 3, 2013
- Hood, E.E., *Infinite Enzymes' SBIR Experiences*, participation in USDA SBIR webinar-- From Submission to Award; Sponsored by ASBTDC in Little Rock; March 10, 2014
- Hood, E.E., *Criteria for Over Expression of Industrial Enzymes in a Plant Biotechnology Platform* ABI 2014 Annual Symposium, Jonesboro AR October 7, 2014
- Hood, E.E., *Infinite Enzymes' SBIR Experiences*, participation in USDA SBIR webinar-- From Submission to Award; Sponsored by ASBTDC in Little Rock; March 9, 2015
- Hood, E.E., *Using the corn seed biofactory to produce enzymes for industrial applications* University of North Texas, Denton TX September 4, 2015
- Hood, EE, C Phillips, M Rath, C Green, T Spencer, J Kelley, A Lorence, K Fisher, A Phelps; **Bringing Genomes to Fields to Arkansas**; Plant Imaging Consortium Meeting, St. Louis, MO June 3, 2017

#### OTHER RELEVANT ABSTRACTS

- Murphy, J.M. and E.E. E. Hood. 1991. *Protein size heterogeneity of cell wall extensin protein in 2 maize varieties*. American Society of Plant Physiologists Annual Meeting, Albuquerque, New Mexico
- Hood, E.E. and R.A. Baasiri. 1991. *Similarity among 24 breeding lines of grain amaranth based on leaf and seed protein heterogeneity*. American Society of Plant Physiologists Annual Meeting, Albuquerque, New Mexico
- Hood, E.E., K.R. Hood, W. McManus and J.M. Murphy. 1991. *Position and regulation of extensin in the structure of maize pericarp*. International Conference of Plant Molecular Biology, Tuscon, Arizona
- Hood, E.E., J.M. Murphy and R.C. Pendleton. 1992. *Cell and molecular biology of maize extensin*. Vth International Conference on Plant Cell Walls, Nijmegen, The Netherlands
- Hood, E.E., J.M. Murphy and R.C. Pendleton. 1993. *Molecular characterization of maize extensin expression*. Keystone Symposium on Cell Wall Structure and Function, Santa Fe. New Mexico
- Hood, E.E. and S.B. Gelvin. 1993. *EHA105, A Versatile Ti Helper Plasmid Useful in Transformation of a Wide Variety of Plants*. Plant Cell and Tissue Culture Gordon Conference, Wolfeboro, New Hampshire
- Lanoue, K.Z. and E.E. E. Hood. 1994. *Phylogenetic relationships in the genus Amaranthus by restriction site analysis*. American Society of Plant Physiologists Annual Meeting, Portland, OR
- Hood, E.E., H.G. Levine, K.Z. Lanoue and D.L. Bishop. 1995. *Wheat cell wall structure in microgravity: Chromex-06, STS-63. I. Plant growth parameters, morphology and carbohydrate analysis*. ASGSB Annual Meeting, Washington, D.C.
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- Hood, E.E., A. Singh-Cundy, K.Z. Lanoue and D.L. Bishop. 1995. *Wheat cell wall structure in microgravity: Chromex-06, STS-63. III. Peroxidase activity and isozymes and cell wall extensibility*. ASGSB Annual Meeting, Washington D.C.

- Hood, E.E.**, D.R. Witcher, B. Kappel, C. Wooge, S. Maddock and J.A. Howard. 1996. **Commercial production of avidin from transgenic maize**. SIVB Annual Meeting, San Francisco, CA.
- Hood, E.E.**, D.R. Witcher, M. Bailey, Z. Nikolov, A. Kusnadi, D. Peterson and J.A. Howard. 1997. **Commercial production of  $\beta$ -glucuronidase from transgenic maize**. SIVB Annual Meeting, Washington D.C.
- Hood, E.E.** 2005 **Bio-industrial Products from Genetically Engineered Plants** The World Congress on Industrial Biotechnology and Bioprocessing, Orlando FL
- Hood, E.E.** 2005 **Production of enzymes in transgenic maize for industrial applications** American Society of Plant Biologists, Annual Meeting, Seattle, WA
- Hood, E.E.** and J.A. Howard 2007 **Cellulases from the transgenic maize production system**; World Congress on Industrial Biotechnology and Bioprocessing; Orlando FL March 21-24, 2007
- Vicuna-Requesens, D., S. Devaiah, A. Flory and **E.E. Hood**; **Seed targeted expression of the CBHI & CBHII exocellulases in maize**; Poster Presentation at the Annual Meeting of the American Society of Plant Biologists, Honolulu, HI, July, 2009
- Devaiah, S., K.R. Hood, J.A. Howard, **E.E. Hood**; **High oil lines enhance the accumulation and activity of cellulase in maize seed**; Poster Presentation at the Annual Meeting of the American Society of Plant Biologists, Honolulu, HI, July, 2009
- Teoh, T., Y-K Chang, **E.E. Hood**; **Identifying biological and genetic factors affecting protein accumulation in transgenic maize seeds**; Poster Presentation at the Annual Meeting of the American Society of Plant Biologists, Honolulu, HI, July, 2009
- Hood, E.E.**, Thomas Teoh, Deborah Vicuna-Requesens, Shivakumar Devaiah, Sangwoong Yoon, Audrei Dabul, Yeun-Kyung Chang and Ashley Flory; 2009 **Production of Cellulases in Transgenic Maize**; International Society for Plant Molecular Biology; St. Louis, MO October 25-30, 2009
- Vicuna Requesens, D., A. Flory and **E. E. E. Hood**; **Seed targeted expression of the CBHI & CBHII exocellulases in maize**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009
- Hood, E.E.**, T. Teoh, D. Vicuna-Requesens, S. Devaiah, S. Yoon, A. Dabul, Y-K.Chang and A. Flory; **Production of Cellulases in Transgenic Maize**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009
- Dabul, A.N. and **E.E. Hood**; **Structural and Functional studies of hydroxyproline-rich glycoprotein in the reproductive system of maize (Zea mays L.)**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009
- Fake, G., J. Carroll, R. Jimenez-Flores, **E. Hood**, and J. Howard; **Measuring Cellulase Activity in Transgenic and Non-Transgenic Maize Tissue through the Release of Fermentable Sugars**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009
- Yoon, S., A. Biris, B. Savary and **E. Hood**;  **$\beta$ -Expansin (Zea m 1) Action and Synergy with Cellulase on the Lignocellulosic Material**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009
- Teoh, T., A. Flory, **E.E. Hood**; **Identifying biological and genetic factors affecting protein accumulation in transgenic maize seeds**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009
- Devaiah, S., K.R. Hood, J.A. Howard, **E.E. Hood**; **Enhanced accumulation of cellulase in maize seed**; Poster Presentation at the IPMB Congress, St. Louis, MO October, 2009

- Woodard, Susan, Shazia Shaik, Zivko Nikolov and **Elizabeth Hood**; **Removal of phenolics improves recombinant cellulase purification from transgenic corn flour**; Spring 2010 ACS Meeting (Abstract #14818).
- Vicuna Requesens, Deborah V, Kellye Eversole, Robert Mustell, Richard Segall, Dan Berleant and **Elizabeth Hood**; **Establishing a baseline database to demonstrate substantial equivalence of GE and non-GE crops through data-mining and text-mining**; Poster Presentation at the Annual Meeting of the American Society of Plant Biologists, Montreal, Quebec, Canada July, 2010
- Thomas Teoh, Daniel Johnson, Yuen Kung Chang, Xiuzhen Huang and **Elizabeth Hood**; **Understanding biological and genetic factors influencing protein accumulation in transgenic maize seeds** Poster Presentation at the Annual Meeting of the American Society of Plant Biologists, Montreal, Quebec, Canada July, 2010
- Devaiah, Shivakumar P., Kendall R. Hood and **Elizabeth E. Hood**; **Enhanced accumulation of cellulase in maize seeds**; Poster Presentation at the Annual Meeting of the American Society of Plant Biologists, Montreal, Quebec, Canada July, 2010
- Humphrey, K. Savary, B.J., Green, S., Xu, J., **Hood, E.**, Armah, P.W., and Patel, P.2010. **Plant Biomass Research, Education, and Public Outreach at the Arkansas State University's College of Agriculture and Technology**. Biomass South 2010. Oct.14-15, 2010. Memphis, TN
- Teoh, Keat, Daniel Johnson, Yeun-Kyung Chang, Ashley Flory, Xiuzhen Huang and **Elizabeth Hood**; **Transcriptome Analysis of Maize Embryos**; Invited Oral and Poster Presentations at the Cambridge Healthtech Institute's Inaugural Plant Sequencing: *Genotype to Phenotype Correlations*; San Diego, CA; March 16-18, 2011
- C. Biedenbender (UALR), D. Berleant (UALR), K. Eversole (IE-SCS), **E. Hood** (ASU), L. Leach (IE-SCS), R. Mustell (IE-SCS), R. Segall (ASU), and D. Vicuna (ASU), **Text Mining: Using Rule Based and Neural Network Based Approaches**, 2011 UALR Student Research Expo, Little Rock, April 11.
- Yoon, S., Devaiah, S.P., Hayden, C., Howard, J., Hood, E.E.; **Novel Expansin Assay Development and Characterization of Transgenic Corn Expansin**; 2011 P3 meeting at AR P3 Symposium & AR NSF EPSCoR Annual Meeting; Heber Springs, July 26-28, 2011
- Vicuna Requesens, D., Devaiah, S., Chang, Y-K., and **Elizabeth E. Hood**; **Stable endosperm-production of CBHI exocellulase in maize**; Invited oral presentation at the American Council for Medicinally Active Plants; Arkansas State University Biosciences Institute, May 22-25, 2012—first place winner for conference oral presentations.
- Yoon, S., Devaiah, S.P., Hayden, C, Howard, J.A., **Hood, E.E.**; **Novel Expansin Assay Development and Characterization of Transgenic Corn Expansin**; 3<sup>rd</sup> Annual Conference American Council for Medicinally Active Plants May 22 – 25, 2012 Arkansas State University, Jonesboro, AR
- Dabul, A.N., Vicuna Requesens, D., & **Hood, E.E.** **Promoter study of the HRGP gene from B73 corn**; 3<sup>rd</sup> Annual Conference American Council for Medicinally Active Plants May 22 – 25, 2012 Arkansas State University, Jonesboro, AR
- Pittman, A, Hood, K, Hood, E.E. and Izadyar, A; **Extraction of MnPox for the Development of a Peroxide Sensor**; 2014 AR P3 Annual Research Symposium; July 28 – 30, 2014; Petit Jean, AR
- Hamilton, B., Hood, N. and Hood, E.E.; **Degrading Environmental Pollutants Using Recombinant Fungal Manganese Peroxidase Expressed in Maize**; 2014 AR P3 Annual Research Symposium; July 28 – 30, 2014; Petit Jean, AR
- Ring, R., Hood, N. and Hood, E.E.; **Transformation of Maize to Test the Activity of a Cupin Family Promoter**; 2014 AR P3 Annual Research Symposium; July 28 – 30, 2014; Petit Jean, AR
- Segall, Richard, Nicholas Pippenger, Daniel Berleant, Kellye Eversole, Robert Mustell, Deborah Vicuna-Requesens, Christopher Biedenbender & **Elizabeth Hood**: **Information Quality Methods and**

- Extraction of Numerical Information from a Corpus of Scientific Papers Related to Corn**, MCBIOS annual conference; March 13-15, 2015; Little Rock, AR
- Ring, R., Dabul, A., Hood, E.E. **Characterization of B73 Maize Hydroxyproline-Rich Glycoprotein Promoter Expression**; Annual Meeting of the Southern Section of ASPB; March 26-28, 2015; Dauphin Island, AL
- Ring, R., K. Teoh, E.E. Hood; **Genetic Improvements in Recombinant Protein Accumulation in Maize Embryos**; Poster presentation at Create@AState; Arkansas State University April 3, 2015; Jonesboro, AR
- Phillips, Cassie, A. Pereira, E.E. Hood; **Heat Stress of Maize Inbred Lines for RNA and Protein Isolation**; Poster presentation at Create@AState; Arkansas State University April 3, 2015; Jonesboro, AR
- Morrisey, Heather, A. Dabul, E.E.Hood; **Antisense control of pericarp extensin expression**; Poster presentation at Create@AState; Arkansas State University April 3, 2015; Jonesboro, AR
- Ring, R., Dabul, A., Hood, E.E. **Characterization of B73 Maize Hydroxyproline-Rich Glycoprotein Promoter Expression**; 2015 AR P3 Annual Research Symposium; June 29 – July 1, 2015; Fayetteville, AR
- Phillips, C., Pereira, A., Hood, E.E.; **Heat Stress of Maize Inbred Lines for RNA Isolation and Sequencing**; 2015 AR P3 Annual Research Symposium; June 29 – July 1, 2015; Fayetteville, AR
- Hood, E.E., Teoh, K., Howard, J.A.; **Genetic Improvements in Recombinant Protein Accumulation in Maize Embryos**; First annual Phytobiome Conference; June 30-July 2 2015; Washington DC
- Hood, E.E., Teoh, K., Howard, J.A.; **Genetic Improvements in Recombinant Protein Accumulation in Maize Embryos**; Plant Genomics Congress 2015; Sept. 14-15; St. Louis, MO
- Phillips, C., Pereira, A., Hood, E.E.; **Heat Stress of Maize Inbred Lines for RNA Isolation and Sequencing**; 2016 Annual Meeting of the Southern Section of ASPB; April 2-4, 2016; Denton, TX
- Rath, M.M., Hood, E.E.; **Assessment of Xylanase E2 expression in Zea mays**; 2016 Annual Meeting of the Southern Section of ASPB; April 2-4, 2016; Denton, TX
- Hood, E.E., Phillips, C., Hamilton, B., Hood, N., Hood, K; **Using Corn Seed as a Biofactory to Produce Manganese Peroxidase**; Maize Genetics Meetings, March 17-20, 2016, Jacksonville, FL
- Moore, K. and Hood EE. Developing a Transient Gene Expression System in Maize Leaves. NSF Bridge Program for STEM students. Jonesboro AR August 3, 2016
- Hood E.E., Phillips C., Rath M.M., Green C., Spencer T., Campbell Z., Lorence A., and Hood K.R.; **Genomes to Fields in Arkansas**. Plant and Animal Genome, January 2017, San Diego, CA
- Fang, H., Kandhola G., Hood, K.R. and Hood E.E., **Identification of Cellulase Inhibitors Using Corn-seed Produced Enzymes**; Maize Genetics Meetings, March 9-12, 2017, St. Louis, MO.
- Rath, M.M., Booth, A., Moore, K., and Hood, E.E., **Agrobacterium tumefaciens Vacuum Infiltration of Zea mays for Transient Expression**; Maize Genetics Meetings, March 9-12, 2017, St. Louis, MO.
- Fang, H., Kandhola G., Hood, K.R. and Hood E.E., **Identification of Cellulase Inhibitors Using Corn-seed Produced Enzymes**; Create@State, April 20, 2017, Jonesboro AR.
- Rath, M.M., Booth, A., Moore, K., and Hood, E.E., **Agrobacterium tumefaciens Vacuum Infiltration of Zea mays for Transient Expression**; Create@State, April 20, 2017, Jonesboro AR—Awarded best undergraduate poster from the College of Agriculture

**Hood EE**, C Phillips, M Rath, C Green, T Spencer, Z Campbell, A Lorence and K Hood, ***Genomes to Fields in Arkansas***; Plant and Animal Genome, January 13-17, 2017, San Diego, CA,

Booth, Amber, Mary Rath, Kayla Moore, EE Hood, ***Agrobacterium tumefaciens* in vacuum infiltration of Zea mays for transient expression**; Create@State April 2018, Jonesboro, AR

Hong Fang, Gurshagan Kandhola, Kendall R. Hood and Elizabeth E. Hood, Identification of Cellulase Inhibitors Using Corn-seed Produced Enzymes; Society for In Vitro Biology Annual Meeting, June 2, 2018, St. Louis, MO

Hong Fang, Gurshagan Kandhola, Kendall R. Hood and Elizabeth E. Hood, Identification of Cellulase Inhibitors Using Corn-seed Produced Enzymes; Corn Utilization and Technology Conference, June 4, 2018, St. Louis, MO

Maria Elena Gonzalez Romero, Hong Fang, Amber Booth, Joshua Byrd, Uyen Tran, Jacey Mize, Akash Lal, Shailaja Vemula, Kendall R. Hood and Elizabeth E. Hood. Plant-made industrial enzymes production in corn (*Zea mays*) seeds using genetic engineering technology. Arkansas Biosciences Institute Annual Symposium, September 25, 2018, Little Rock, AR

Byrd, Joshua, Uyen Tran, Kendall R Hood, Elizabeth E Hood; Plant-Produced Manganese Peroxidase as a Bioremediation Agent; ABI Annual Symposium, September 25, 2018, Little Rock, AR

Booth, Amber, Hood, Elizabeth E; Non-Coding RNA Influence on Manganese Peroxidase Quantity Variation in Isogenic Corn Lines. Oral presentation. Create@State April 2019, Jonesboro, AR

Lal, Akash, Hood, Elizabeth E; Analysis of DNA Methylation As A Way To Detect Protein Accumulation Mechanisms In Transgenic Maize Grain. Poster presentation. Create@State April 2019, Jonesboro, AR

Byrd, Joshua, Uyen Tran, Kendall R Hood, Elizabeth E Hood; Plant-Produced Manganese Peroxidase as a Bioremediation Agent. Oral presentation. Create@State April 2019, Jonesboro, AR—awarded best graduate presentation for the College of Agriculture.

Fang, H., & Hood, E., Identification of a Native Polysaccharide Inhibitor of Cellulase from Transgenic Maize Seed; Plant Biology 2019, American Society of Plant Biologists, San Jose, CA

Fang, H., & Hood, E., A Fortuitous Discovery of  $\beta$ -Glucosidase from Corn Seed in the Purification of Recombinant Expansin from Transgenic Maize Seed. Plant Biology 2019, American Society of Plant Biologists, San Jose, CA

Fang, H., & Hood, E., A Fortuitous Discovery of  $\beta$ -Glucosidase from Corn Seed in the Purification of Recombinant Expansin from Transgenic Maize Seed. 2019; In Vitro Biology Meeting

### **STUDENTS AND POST-DOCs MENTORED**

Maria Elena Gonzalez Romero, post-doctoral, ASU March 2018-October 2019

Deborah Vicuna Requesens, post-doctoral, ASU 2008-2012

Thomas (Keat) Teoh, post-doctoral, ASU 2006-2013

Shivakumar Devaiah, post-doctoral, ASU 2008-2012

Maria Jose Truco, post-doctoral, USU 1993-94

Sue Fritz, post-doctoral, USU 1989-1992

Kori Bohon, PhD student, UALR, so-advisor, 2018-2020

Hong Fang, PhD student, ASU, 2016-2019; worked through August 2020

Sangwoong Yoon, PhD student, ASU, 2006-2012

Audrei Dabul, PhD student, ASU, 2007-2012  
Ashley Flory, MS student, ASU, 2010-2011  
Martina Garda, MS student, ASU, 2009-2011  
Joshua Byrd, MSA student, ASU 2017-2019  
Akash Lal, MSA student, ASU 2018-2020  
Bretton Hale, MS in MBS, ASU 2019-2020  
Auburn Overstreet Ramsey, undergraduate, ASU 2020-present (intern)  
Rebecca Ring, undergraduate student, ASU 2012-2015  
Uyen Tran, undergraduate student, ASU, 2018-2019  
Amber Booth, undergraduate student, ASU 2017-2018; MSA student 2018-2020  
Benjamin Levenbach, undergraduate student, ASU 2017  
Jacey Mize, undergraduate student, ASU 2017-2018  
Taylor Spencer, field undergraduate student 2016  
Cassie Phillips, undergraduate student, ASU 2014-2016  
Mary Rath, undergraduate student, ASU 2015-2017  
Victoria Davis, undergraduate student, 2015-2016  
Corey Green, undergraduate student, ASU 2016-2017  
Kayla Moore, undergraduate student from UA Fort Smith, 2016  
Heather Morrisey, undergraduate student, ASU 2014-2015  
Breiona Hamilton, undergraduate student from Philander Smith College, 2014  
Anna Pittman, undergraduate student from Hendrix College, 2014  
Leah Chunestudy, undergraduate student, ASU 2007-2010  
April Prunty, high school and undergraduate student, Jonesboro and ASU 2007-2011  
Ne'Cura White, undergraduate student, ASU 2011  
Mindalyn Breckenridge, undergraduate student, ASU 2009-2011  
Amanda Vinas, undergraduate student, ProdiGene  
Lacy Lovelace, undergraduate student, USU  
Susan Brown, undergraduate student, USU  
Jenifer Murphy, MS student, USU  
Karen Lanoue, MS student, USU  
Chalapathi Koka, MS student, USU