# CURRICULUM VITAE


## Marilee Benore Parsons
## Department of Natural Sciences, University of Michigan-Dearborn
## 4901 Evergreen Road, Dearborn MI 48128
## 313-593-5387 mparsons@umich.edu


## EDUCATION

| | |
|---|---|
| Ph.D., Chemistry, May 1986 | Biochemistry Major, Organic Minor<br>Department of Chemistry, University of Delaware, Newark, DE<br>Thesis: The Transport of Riboflavin-binding Protein to the Hen Oocyte (Thesis Advisor: Harold B. White III) |
| B.A., Chemistry, 1979<br>A.A., Psychology | Thomas More College, Ft. Mitchell, KY |

## TEACHING AND RESEARCH INTERESTS

Research on Riboflavin Binding Protein including analysis of copper binding and investigation of structure/function relationships. Biochemistry education research on laboratory techniques, interdisciplinary teaching, and improving learning in the classroom. Teach biochemistry, molecular biology, introductory biology, and interdisciplinary lecture and laboratory courses.

## EMPLOYMENT HISTORY

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|---|---|
| 1996 – Present | **Associate Professor of Biology and Biochemistry**<br>**WILL Program Director (2006-present)**<br>**Chair Biology Discipline (2003-2004)**<br>***Department of Natural Sciences, University of MI-Dearborn*** |
| 1989 -1996 | **Assistant Professor of Biology and Biochemistry**<br>***Department of Natural Sciences, University of MI-Dearborn*** |
| 1986 - 1989 | **Postdoctoral Research Fellow**<br>***CIBA-Geigy Pharmaceutical Co., Summit, NJ***<br>**Mentor: Lawrence P. Wennogle** |
| Spring 1988 | **Adjunct Assistant Professor**<br>***County College of Morris, Morris, New Jersey*** |
| 1980 - 1986 | **Research Assistant and Teaching Assistant**<br>***Dept. of Chemistry, University of Delaware*** |
| 1976 - 1980 | **Technician (1978-1980)**<br>**Cooperative Work Experience (1976-1978)**<br>***Borden Chemical Co, Cincinnati, OH*** |

## HONORS AND AWARDS

Sarah Goddard Power Award 2004 (Univ. of MI for Mentoring, leadership and scholarship)
Susan B. Anthony Award 1994 (UM-Dearborn Award for Outstanding Service to Women)
Outstanding Advising of Student Athletes Award 1995, 1996
Mentoring Award from Association for Women in Science-Detroit Chapter 1995

## PROFESSIONAL AFFILIATIONS (Current)

American Society for Biochemistry and Molecular Biology (ASBMB)
- Education and Professional Development Board Member 2002-2005
- UAN (Undergraduate Affiliate Network) regional director 2003-present
- Editor of *Enzymatic*, the newsletter of the UAN 2007

Editorial Board of BAMBEd (Biochemistry and Molecular Biology Education) 2005-present
Project Kaleidoscope participant and organizer (1999-2002)

## PROFESSIONAL AFFILIATIONS (former)

Council on Undergraduate Research (1992-1996)
Association of Women in Science Detroit Section (1989-2000), Council Member (1994-1998)

## TEACHING ACTIVITIES

### TEACHING ASSIGNMENTS

| Term | Course | Credit hours | Students ^^ |
|---|---|---|---|
| **F 1996** | Bch 470 Biochemistry Lecture<br>Bch 472 Biochemistry laboratory<br>Research release | 3<br>1<br>1 | |
| **W 1997** | Bch 474 Molecular Biology Lecture<br>and Laboratory<br>Bch 498 Seminar | 3<br>1<br>1 | |
| **S 1997** | Bch 370 Principles of Biochemistry | 3 | |
| **F 1997** | Sabbatical | | |
| **W 1998** | Micr 485 Microbial Physiology Lecture<br>and Laboratory*<br>Bio 140 Laboratory | 3<br>1<br>1 | |
| **S 1998** | NatSci 120 MEL Laboratory | 1 | |
| **F 1998** | WGS 275 Intro to Women's Studies#*<br>Bio 490 Receptors**#<br>Bio 140 Laboratory<br>Research release | 3<br>3<br>1 | |
| **W 1999** | Bch 474 Molecular Biology Lecture<br>and Laboratory<br>Bch 498 Seminar | 3<br>1<br>1 | |
| **S 1999** | Bch 370 Principles of Biochemistry | 3 | |
| **F 1999** | Micr 406 Microbial Genetics Lecture and Laboratory<br>Bio 140 Laboratory | 1<br>1<br>1 | |
| **W 2000** | Bch 474 Molecular Biology Lecture<br>and Laboratory | 3<br>1 | |

| **Term** | **Course** | **Credit hours** | **Students ^^** |
|---|---|---|---|
| **S 2000** | Bch 370 Principles of Biochemistry | | |
| **F 2000** | Bch 490 Bioinformatics**[#]<br>Bch 370 Principles of Biochemistry<br>Bio 140 Laboratory | 3<br>3<br>1 | |
| **W 2001** | Bch 474 Molecular Biology Lecture<br>and Laboratory (2)<br>Bch 497 Seminar | 3<br>1,1<br>1 | 29<br><br>20 |
| **F 2001** | Micr 406 Microbial Genetics Lecture<br>and Laboratory<br>WGS 275 Intro to Women's and Gender Studies[#] | 3<br>1<br>3 | 13<br><br>35 |
| **W 2002** | Bch 474 Molecular Biology Lecture<br>and Laboratory<br>Bch 498 Seminar<br>Chair release | 3<br>1<br>1 | 16<br>20 |
| **F 2002** | Bch 370 Principles of Biochemistry<br>Bio 140 Laboratory<br>Chair release | 3<br>1 | 35<br>18 |
| **W 2003** | Bch 474 Molecular Biology Lecture<br>and Laboratory<br>Chair release | 3<br>1 | 16 |
| **S 2003** | Bch 490 Nutritional Biochemistry **<br>NatSci 120 Matter, Energy, Life (MEL) Laboratory | 3<br>1 | 12<br>18 |
| **F 2003** | Bio 410 Diversity in Health Care**<br>Chair release<br>OL release | 3 | 20 |
| **W 2004** | Bch 474 Molecular Biology Lecture<br>and Laboratory<br>Bch 498 Seminar<br>Chair release | 3<br>1<br>1 | 16<br><br>20 |
| **S 2004** | Bch 370 Principles of Biochemistry<br>Micr 385 laboratory (half)* | 3<br>1 | 25<br>18 |
| **F 2004** | Sabbatical | | |
| **W 2005** | Sabbatical | | |
| **F 2005** | Bio 410 Diversity in Health Care<br>Bch 370 Principles of Biochemistry | 3<br>3 | 20<br>42 |
| **W 2006** | Bch 474 Molecular Biology Lecture<br>and Laboratory (2) | 3<br>1,1 | 28 |
| **S 2006** | Bch 370 Principles of Biochemistry<br>Bio 140 Laboratory | 3<br>1 | 38<br>18 |
| **F 2006** | Bio 140 Introduction to Cell and Molecular<br>Lecture*<br>and Laboratory (2) | 3<br>1,1 | 78<br>18,18 |
| **W 2007** | Bch 474 Molecular Biology Lecture<br>and Laboratory (2) | 3<br>1,1 | 29 |

| Term | Course | Credit hours | Students ^^ |
|---|---|---|---|
| **S 2007** | Bch 370 Principles of Biochemistry<br>Bio 140 Laboratory | 3 | 35<br>9 |
| **F 2007** | NatSci 390 Global Issues (Honors tutorial) **<br>Bio 410 Diversity in Health Care<br>Bch 370 Principles of Biochemistry | 3<br>3<br>3 | 7<br>33<br>45 |

* First time teaching course
^^ (Banner data available after 2001,
** New course
[#] Team taught, but present every class and graded every exam and paper.

**CURRICULUM DEVELOPMENT**

- Since the last promotion I have taught 18 different lecture and laboratory lectures or labs.
- I have developed several new courses, and these are indicated with ** in the list above. These Include the Diversity in Health Care (Bio 410), Receptors (Bio 490), BioInformatics (Bio 490), Honors Tutorial in Global Issues in Health (NatSci 390), Nutritional Biochemistry (Bch 490)
- I am currently working with the School of Education to develop a "4 + 1" program to allow biochemistry majors to obtain a Masters degree and teach chemistry in high school.

**STUDENTS SUPERVISED IN RESEARCH (Undergraduate)**

Jonathon Hackett S07-F07, Development of alternative purification of RBP
Kristen Russ S0F-07, Purification and copper analysis of RBP
Waqas Kumar W07, Purification and characterization of RBP
Andrew Raupp F06, Library research on turmeric
Hannann Moughanian F06, Library research on metabolo-genomics
Ernest Rutland F06, DNA purification and characterization (Medical School, Wayne)
Rebecca Shaw S06-W07, RBP characterization and copper binding
Ahmad Kabbout S06 RBP, gel electrophoresis
Christopher Maksimovski W05, diversity library research (working in hospital)
Anita Hafeez, W05, Copper binding to RBP (Medical School)
Velika Josifoska, F04, Copper binding to RBP (Law School, Wayne)
Patricia Pentiak, F03, library research on liposomes (Medical School, Wayne)
Kerry Westwood S 03-04, RBP and Rf binding to DNA (working)
Ryan Hamilton, S03, Expression of RBP in bacteria (working)
Creagh Milford W03, Library research Diversity Issues in Medicine (DSO, IL)
Carole Kuslack W03, Library research Diversity Issues in Medicine (Medical school)
Daniel Ryan, F02, subcloning RBP gene (working, Oakwood Hospital)
Christine Mitchell S 02-'04, RBP and Rf binding to DNA, (working)
Kamal Hachem S02, insulin library work (graduate school)
Elena Smith W02, receptor library work (working)
Sandy Bocjeski S01-F01, library research on antibiotics
MIke Williams F01- W02, S03 (Medical school, MSU)
Chad Beasley W02-S02, subcloning RBP gene
Cristina Puscau, MD, F00-W01 (UM-research)
Guy Lenk W99-F01, RBP cloning (graduate school Wayne)

Mike Orta, W01-F01, RBP
Lance Bezzina, W00, BioInformatics (Wayne State Medical School)
Anna Khizniak W00-F00, RBP, (UM-research)
Roman Alpatov, S00, Insulin library research (PhD program, Gainesville)
Zenna Faraj F98-W99, vitiligo library research
Stephen Rouse W97-F98, cloning RBP, albinism
Gabe Mannarino, S97-S98, DNA purification (Dental school-UDM)
Najat Rizk, S 97-S98, cDNA purification (PhD Wayne)
Kevin Zebari W97-W98, Riboflavin in gene regulation (graduate school)
Lisa Blum, S97-S98, pcr analysis (Medical School, UM)
George Howard, F96-F98, RBP (Wayne State Medical School)
Nick Qandah, F96-W98 (Medical School)
Vic Soi W97:DNA fingerprinting (Wayne State Medical School)
Lawrence Berry, F96-S97 (working)
Heather Towery, S95-S96, Riboflavin: DNA (MI State Medical School)
Anthony Bozaan, W95-97, Behavioral Genes (MI State Medical School)
Melissa Ayoub, W95-S96, DNA characterization (MS, Erie PA Medical School)
Kevin Trapp, W94-S95, Riboflavin: DNA (Ferris Optometry School)
Nicole LeVeque, S93-S95, DNA and protein purification (DVM, MI State)
Monica Riesner, W94-F94, Riboflavin and RBP binding to DNA (Medical School, Wayne)
Lona Anderson, S94-S95, DNA fragment purification (working)
Patricia Tarrant, S93-S94, Cell culture (Air Force)
Ann Jagielski, F93, DNA purification (working)
Amy Wiland, W93-W94, VDR:DNA binding (Pfizer)
Scott Doty, S92, Chilopod venoms (high school teacher)
Mary Ann Szegedy F91-S92, VDR (PhD Case Western Reserve)
Andrea Zdan W92-F92, DNA:VDR Binding (MD, Wayne)
Noel Ebaugh S92-S93, DNA:VDR Binding (MBA -UMD)
Deborah Stewart W91-F91, DNA Fingerprinting (working)
Reg Mason W91, Purification of Vitamin D3 Receptor (MD '95)
Anna Stevens W91, S91, DNA:VDR Binding Studies
Dennis Bagley W91, S91, W92, DNA:VDR Binding Studies (working)
Claudia Whitaker S91, DNA:VDR Binding (Medical School-Wayne)
Glenn Hall F91-W92, Vitamin D disease (grad. student -Wayne)
Susan Galbraith Parsons S92
Donna Thorpe S90, HPLC (Medical School-Wayne)
Kym Merchant S90, DNA:VDR Studies (UM Pharm.D , '95)
Debbie Amato, Vitamin D3
Christine Arnoldus F89-W90: GRE (MD-UM)
Laurie Stanczak, F89-W90: GRE (MD- Wayne)
Kristin Dragan F89-W90: Glucocorticoid Receptor

**STUDENTS SUPERVISED IN RESEARCH (high school students, full summer)**
**(high school students mentored in science fair projects not listed)**

Melanie Gamble, S93 (high school student)
Tamica Everett, S91 (high school student)
DeAndre Lyman, S91 (high school student)

## RESEARCH

### BOOKS*

Alex Ninfa, David Ballou and Marilee Benore-Parsons, Fundamental Laboratory Approaches in Biochemistry and Biotechnology, 2nd Edition (FLABB), (under contract, publication date 2/2008) Wiley, Hoboken, NJ, approximately 400 pages

** Test banks in printed or digital form, authored and/or edited, are included under the section invited publications.*

### PAPERS PUBLISHED (Peer Reviewed) EDUCATION AND RESEARCH

Riboflavin Binding Protein Contains a Type II Copper Binding Site. (2006) S. R. Smith, I. Pala, M. Benore-Parsons, J. Inorg. Biochem. 100 (11), 1730-1733.

A Course Designed For Undergraduate Biochemistry Students To Learn About Cultural Diversity Issues, M. Benore-Parsons, (2006) Biochem. and Mol Bio. Ed., 34, No 5, 326-331.

Matrix Analysis of Biochemistry Programs- An Assessment Tool. (2004) B. Caldwell, C. Rohlman and M. Benore-Parsons, Biochem. and Mol Bio. Ed., 32, 11-16.

Teaching Receptor Biochemistry: Theory and Application in an Integrated Approach, (2003) M. Benore-Parsons and K. J. Sufka, Biochem. and Mol Bio. Ed., 31, 85-92.

Presence of RNase Causes Aberrant DNA Band Shifts. M. Benore-Parsons and M. Ayoub (1997) BioTechniques, 23,128-131.

Purification of DNA Fragments from Lyophilized Agarose Gels. (1995) M. Benore-Parsons and L. Anderson, Nucleic Acids Research 23, 4926-4927.

A Plasmid Purification Scheme for Characterization of Small Fragments Cloned into Vectors. (1995) M. Benore-Parsons and A. M. Wiland, Anal. Biochem., 231, 267-269.

Encouraging Girls to Consider Careers in Science at a University Day Camp, (1995) M. Benore-Parsons, L. Fisher and J. Heady, J. of Women and Minorities in Science and Engineering 2, 83-89.

Binding of Glucocorticoid Receptors to Model DNA Response Elements. M. Benore-Parsons, J. Liebman and L.P. Wennogle (1991) J. Cellular Biochemistry, 47, 330-336

Substrate Phosphorylation Can Inhibit Proteolysis by Trypsin-Like Cleavage Enzymes. (1989) M. Benore-Parsons, N. G. Seidah and L. P. Wennogle, Arch. Biochem. and Biophys., 272, 274-280.

The Transport of Riboflavin-Binding Protein to the Hen Oocyte: Bound Vitamin is not Required for Protein Deposition. (1988) M. Benore-Parsons, L. Yonno, L. Mulholland, W.W. Saylor, and H.B. White III, Nutritional Res., 8, 789-800.

Dephosphorylation of Chicken Riboflavin-Binding Protein and Phosvitin Decreases Their Uptake by Oocyte. (1982) M.S. Miller, M. Benore-Parsons and H.B. White III, J. Biol. Chem. 257, 6818-

6824.

**INVITED PUBLICATIONS: Education, Outreach and Editorials**

Test bank-Exam Book to Accompany Concepts in Biochemistry (Boyer) text (2006), M. Benore-Parsons.

Careers In Industry: Some Pointers and Comments For Considering Industry Positions, (2005) M. Benore-Parsons, ASBMB-Today, June 2005, 22-23.

Promoting Science For Everyone (2005), A. J. Wolfson and M. Benore-Parsons, (2005) ASBMB Today, April 2005.

Letter to the Editor (2005) M. Benore-Parsons, Journal of Clinical Investigations e-letters, http://www.jci.org/cgi/eletters/115/3/480.

Test-bank-Exam book to accompany Fundamentals of Biochemistry text (Vote/Voet/Pratt) (2005) (Responsible for assembling a team of writers, writing and editing manuscript).

Bringing Students Into Science Through Outreach. (2004) N. Grover and M. Benore-Parsons, ASBMB Today, October 2004, 27.

Test bank-Exam Book to Accompany Essentials of Biochemistry (Pratt/Cornely) (2004), M. Benore-Parsons.

Exam Book to Accompany Biochemistry text (Stryer *et al.*) (2002), M. Benore-Parsons.

Concept Maps for Chapters 1-20, in Biochemistry, (Campbell) (2002) Saunders Publishers. M. Benore-Parsons.

Concept Maps for Chapters 1-20, in Biochemistry, (Campbell) (1998) Saunders Publishers. M. Benore-Parsons.

Gazing to the Future: Encouraging Girls to Pursue Careers in Science. (1993) M. Benore-Parsons, L. Fisher and J. Heady, Connections, Faculty Voices, 79-83, UM-Dbrn-Press, Dearborn, MI.

Co-op as an Undergraduate Research Experience. (1993) CUR Quarterly, 101-103.

**Work in progress**

Mixed Oxidation State Binding of Copper to Riboflavin Binding Protein, S. Smith, K. Z. Bencze, K. Wasiukanis, T. L. Stemmler, and M. Benore-Parsons, *being resubmitted soon with additional data.*

LabTV video training www.umd.umich.edu/labtv/

Purification of DNA from tissues for undergraduate laboratory analysis. M. Benore-Parsons.

Using Insulin as an Integrated Topic. M. Benore-Parsons, A series on Using Diabetes as an

Integrated Teaching Tool- Article series for BAMBEd in process of resubmission.

A Tutorial to Develop Molecular Visualizations, M. Benore-Parsons and Stephen M. Rouse, posted online: www.fretlessmm.com/eb2006/

**PRESENTATIONS**

**INVITED SEMINAR PRESENTATIONS**

Riboflavin Binding Protein: Mutants, Metals and More, November 2007, Department of Natural Sciences Colloquium, University of MI-Dearborn, Dearborn, MI.

Riboflavin Binding Protein: Structure and Function, March 2006, Dept of Pharmacy, U MI-Ann Arbor.

Women in Science, Mentoring Session, American Society for Biochemistry and Molecular Biology, 2005, San Diego CA (session co-chair).

Careers in Industry, American Society for Biochemistry and Molecular Biology, 2005, San Diego CA (session chair).

What is the Undergraduate Affiliate Network (UAN) and how can it help you and your students? American Society for Biochemistry and Molecular Biology, 2004, Boston, MA.

Women in Science, Mentoring Session, American Society for Biochemistry and Molecular Biology, 2003, San Diego CA (session chair).

Women in Science, Mentoring Session, American Society for Biochemistry and Molecular Biology, 2002, New Orleans, LA.

Technology in Teaching, ACS (American Chemical Society) Regional Meeting 2002, Minneapolis, MN.

Biochemistry Laboratory Experiments and Techniques, 2001 PKAL Meeting, Utah (PKAL organizer).

Biochemistry Laboratory Experiments and Techniques, ACS Regional Meeting, June 2001, Grand Rapids, M.I

Albinism, Provost's Round Table, 2001 UM-Dearborn, Dearborn MI.

DNA Fingerprinting: A Research-Style Undergraduate Laboratory Experiment For Biochemistry Majors, Midwest American Chemical Society Meeting, June 2001, Holland MI.

Service Learning in Biochemistry, with B. Stewart, 2000 PKAL Meeting, Keystone, CO (PKAL organizer).

LabTV, Using Web Based Videos to Improve Undergraduate Laboratory Techniques, with S.

Rouse, 2000 ASBMB Meeting, Boston, MA.

Team Teaching Women's Studies, Marilee Benore-Parsons and Suzanne Bergeron, 2000 AWSM Meeting, Boston, MA.

Vitamin A. (1996) University of Michigan-Dearborn.

The Role of Vitamins in Gene Regulation (1996) Oakland University.

The Role of Vitamins in Gene Regulation (1994) University of Michigan-Dearborn.

The Role of Vitamin D in Gene Regulation (1993) BGSU, Bowling Green OH.

Co-oping as an Undergraduate Research Experience (1993) UM-Flint, Flint, MI.

Turning Your Genes On and Off: The role of Vitamin D3 in Regulating Gene Expression. (1991) Association of Women in Science, Detroit Section.

**POSTER PRESENTATIONS(*) At NATIONAL/REGIONAL MEETINGS**

Characterization of Copper Binding by Riboflavin Binding Protein, K. Wasiukanis, R. Shaw, S. R. Smith, M. Benore-Parsons, ASBMB Annual Meeting, April 2007, Washington D.C.

A Tutorial to Develop Molecular Visualizations, M. Benore-Parsons and S. Rouse, ASBMB Annual Meeting, April 2006, San Francisco.

Teaching Biology and Biochemistry Students About Diversity Issues, M. Benore-Parsons, ASBMB Annual Meeting, April 2005, San Diego CA.

Riboflavin Binding Protein Binds Copper, C. Mitchell, K. Westwood, S. Smith and M. Benore-Parsons, ASBMB Annual Meeting, June 2004, Boston, MA.

Regulation of Chicken Riboflavin Binding Protein Gene Expression, M. Benore-Parsons and S. M. Rouse, IUBMB, May 2002, Bergen, Norway.

Receptors- A Team Taught Capstone Course, M. Benore-Parsons and R.S. Norman, 1999 ASBMB Meeting, May 1999, San Francisco, CA.

Teaching Undergraduate Biochemistry From An Endocrine Perspective, M. Benore-Parsons, 1998 ENDO Annual Meeting, June 1998, New Orleans, LA.

Using DNA. Scientific and Ethical Issues, M. Benore-Parsons and A. Bozaan. 1997 Annual Meeting of ASBMB, June 1997, San Francisco, CA.

RNase Causes Aberrant DNA Band Shifts. M. Benore-Parsons and M. Ayoub, 1996 International Conference on Endocrinology, June 1996, San Francisco, CA.

Characterization of Vitamin D Receptor Binding to DNA. M. Benore Parsons, 1995 NIH AREA Conference, Indianapolis, IN.

DNA Fingerprinting: An Undergraduate Molecular Biology Laboratory, 1992 Council on Undergraduate Research National Meeting, Holland MI.

Characterization of the Binding of Glucocorticoid Receptor to Model Promoter Elements. , M. Benore-Parsons and L.P. Wennogle, 1989 ASCB/ASBMB Joint Meeting, San Francisco.

The Potential Role of Phosphorylation in Regulating the Rate and Site of Enzymatic Cleavage of Proteins. M. Benore-Parsons and L.P. Wennogle, 1987 ASBC Meeting, Philadelphia, PA.

FAB-MS and FAB-MS/MS Characterization of the Phosphorylation of the Model Peptide, Kemptide. P.L. Wood, L.L. Martin, J. Greer, M. Benore-Parsons and L.P. Wennogle, 1987 ASMS Meeting, Denver, CO.

Ligand Binding is not a Prerequisite for Deposition of Plasma Riboflavin-Binding Protein in the Hen Oocyte, M. Benore-Parsons, L. Sonno, L. Mulholland, W.W. Saylor and H.B. White III, 1985 FASEB Meeting, Anaheim, CA.

Dephosphorylation of Chicken Riboflavin Binding Protein and Phosvitin Decreases Their Uptake by Oocytes, M.S. Miller, M. Benore-Parsons and H.B. White III. 1982 ASBC Conf. ,New Orleans, LA.

*Student Presentations are not included in this list

## RESEARCH GRANTS

**Over $250,000 in grant support received (support for major grants is indicated)**

**Awarded External and UM-AA Research Grants**

"Characterization of Copper Binding to Riboflavin Binding Protein", Office of the Vice Provost for Research (OVPR), UM-Ann Arbor, M. Benore Parsons with Sheila Smith, 2004-2005 *($11000.)*

"AREA Characterization of Riboflavin Binding Protein Promoter" National Institutes of Health AREA Award-CHHD, M. Benore Parsons, 1997-2001 *($112,000 direct plus indirect).*

"Riboflavin Binding Protein" Office of the Vice President for Research- (OVPR), UM-Ann Arbor, M. Benore Parsons, 1996-1998 *($13500).*

"Characterization of Vitamin D Receptor Binding to DNA" National Institutes of Health AREA Award-NIDDK, M. Benore Parsons, 1992-1995 *($113,000 direct plus indirect).*

"Use of Radioistopes" Phoenix Project- Univ. of Michigan, M. Benore Parsons.

Rackham Grant Univ. of Michigan, M. Benore Parsons, 1991.

"ACS Project SEED", American Chemical Society, M. Benore Parsons, 1991 *($1200).*

**Awarded Campus Research Grants**

Campus Grants- Research, Office of Sponsored Research, UM-Dearborn. M. Benore Parsons 1990-2007, *(over ten awards, each $500-3000)*

Campus Grants, Office of Provost, Diversity Grant, University of Michigan Dearborn Diversity Grant for WILL program, M. Benore Parsons with Suzanne Bergeron, 2006 (*$3500),*

Campus Grants, Office of Provost, Diversity Grant, University of Michigan Dearborn Mentoring workshop for undergraduates, M. Benore Parsons, 1993 *($1207)*

Campus Grants-University of Michigan Dearborn , Office of Sponsored Research, Student Research Awards, M. Benore Parsons, 1991-2006 *(several awards, $400-$2500 each)*

CASL Travel Awards M. Benore Parsons (Travel to conferences, approximately $16,000 since 1989).

**Awarded Instructional Grants**

"Wiley grant", Wiley grant to support experimental design for laboratory manual, funds for supplies only, M. Benore Parsons, $3500, Nov 2007 to March 2008

"Visiting Professorship in Medical Sciences" Burroughs-Wellcome Grant (for visiting scientist R. Garruto) FASEB, with M. Benore Parsons, L. Fisher, and B. Bogin, Fall 2001 *($5000)*

## SERVICE ACTIVITIES

### CAMPUS ADMINISTRATIVE AND COMMITTEE SERVICE

CASL Executive Committee 1998-1999, 2005-2008
Women in Learning and Leadership (WILL) Program Director 2006-present
Major Search Committees: Provost, Institutional Support Director 2004-2006
Faculty chair for funding campaign 2006
Chair, Biology Discipline 2002-2004
Rackham Board 2001-2005
IRB Committee sub 2002-2004
Natural Science Building Core Committee 2001-2005
Housing Committee, 2000-2001
Chemistry Search Committee 1999-2000
Women's Studies Advisory 1998-present
Natural Sciences Poster Symposium Committee 2000-2002
Women's Studies Student Alliance, Faculty Advisor 1999-2003
NOW student organization, Faculty Advisor 2002-2006
FUTURES Committee 1998-1999 (Campus Long Term Planning)
Department Executive Committee 1996-1997, 1998-1999
Biochemistry Program Chair 1995-2001, 2006-present
Biochemistry Program Advisor Fall 1995-1999, 2001-2002
Biochemistry Program Committee 1989-present

Microbiology Program Committee 1994-2003
Chair Biology Lecturer Search Committee 1996
Campus Grants Committee 1990-1994
Cell Biologist Search Committee 1993-1994
Safety Committee 1993-1994
Faculty Advisory Committee on Campus Affairs Winter 1993
Co-op Advisor 1989-1993
Natural Sciences Colloquium 1990; Chair, 1991
Science Education/Technology Committee Winter 1992
Chemistry Laboratory Curriculum Committee 1991-1993
Faculty Secretary Natural Sciences Department 1990-1991
ACS Chemistry Olympiad Exam proctor 1990-1995

**PROFESSIONAL SERVICE**

Editor *Enzymatic*, ASBMB UAN publication, 2007-present
BAMBEd editorial Board 2005-present
ASBMB UAN regional Director 2005-present
ASBMB Education and Professional Development Board member 2002-2005
ASBMB Women's Mentoring Session organizer 2004, 2006
ASBMB Undergraduate Poster Competition: judge, 2001-present, Co-chair 2003-2006
Science speaker to local schools
PKAL Committee-Biology and Chemistry 1995, 1996, 2000-2002, 2008
Site Coordinator for American Chemical Society Women's Chemist Committee 1995-1996
Councilor of Education, 1995-1997, AWIS Detroit Section
Science Day Camp Director, Michigan Metro Girl Scouts funding, 1991-1994, 1996 2003, 2004
"Explorathon - Expanding Horizons for Girls in Science." speaker 1993-1999
Girl Scouts Career Advisory Committee 1990-1992.
Wise Mothers Organization, grant writing 1993-1994
Science-By-Mail Penpal 1989-1991
Science Career Conference, Director, May 1992

**ACADEMIC/STUDENT ADVISING:**

Biochemistry Program Advisor 1995-2001
Biochemistry Advising 1989-present
Women in Learning and Leadership student advising 2006-present
Women's Studies Student Alliance, Faculty Advisor 1999-2002
Biology Advisor 1989-present
NOW student organization, Faculty Advisor 2002-2004
Co-op Advisor 1989-1993
Delta Nu Theta Advisor 1997-1999
TriBeta Advisor 2002

**MISCELLANEOUS ACTIVITIES**

ASBMB Meeting, April 2007, Washington D.C.

` ASBMB Meeting, April 2006, San Francisco, CA.
NIH conference on SBIR/STTR grants, August 2005, Bethesda MD.
ASBMB Meeting, April 2005, San Diego, CA.
ASBMB Meeting, June 2004. Boston, MA.
ASBMB Meeting, April 2003. San Diego CA.
Great Lakes ACS Meeting, June 2002, Minneapolis, MN.
IUBMB Meeting, May 2002, Bergen, Norway.
ASBMB Meeting, April 2002, New Orleans, LA.
PKAL Conference, 2001 Utah.
Midwest ACS Meeting, June 2001, Holland MI.
Annual Meeting of ASBMB, March 2001, Orlando FL.
PKAL Conference, 2000, Keystone CO.
Annual Meeting of ASBMB, June 2000, Boston, MA.
Annual Meeting of ASBMB, May 1999, San Francisco, CA.
Annual Meeting of the ENDO Society, June 1998, New Orleans, LA.
CUR Conference, May 1998, Bates College, MA.
Annual Meeting of ASBMB, June 1997, San Francisco, CA.
PKAL Conference, 1996.
Sponsored Research Office Grant Coordinator, 1996.
Annual Meeting of the Endocrine Society, (ICE '96), 1996, San Francisco.
NIH Study Section General Medicine B, Fall 1995.
NIH-AREA Conference, April 1995, Indianapolis IN.
Annual Meeting of the Endocrine Society, June 1994, Anaheim, CA.
Gordon Conference on Hormone Action, August 1993, New Hampshire.
Serono Symposia, Meadowbrook Conf. on Steroid Receptors, 1992, Oakland, MI.
73rd Meeting of the Endocrine Society, June 1991, Washington DC.
Council on Undergraduate Research Meeting, 1992, Holland, MI.

**WORKSHOPS AND TRAINING**

Outreach workshop at ASBMB National Meeting in Washing DC 2007.
Small Business (SBIR) grant workshop at NIH, Bethesda MD 2005.

## SYNERGISTIC ACTIVITIES

Much of my research, teaching and service work overlaps, and is dedicated to developing methods and techniques to improve student learning, and mentoring young women.