

WAYNE STATE UNIVERSITY

Professional Record
Faculty



NAME: Diane E. Cress

DATE PREPARED: 3-26-10

DATE REVISED: 5-17-24

OFFICE ADDRESS:
3009 Science Hall
410 W. Warren
Detroit, MI 48202

HOME ADDRESS:
444 W. Willis Street, #105
Detroit, MI 48201

OFFICE PHONE: 313-577-2500

HOME PHONE: 248-765-3835

DEPARTMENT/COLLEGE: Nutrition and Food Science, College of Liberal Arts and Sciences

PRESENT RANK & DATE OF RANK: Associate Professor with Tenure, August 19, 2013

WSU APPOINTMENT HISTORY:

Year Appointed/Rank: 2008, Assistant Professor

Year Awarded Tenure: 2013

Year Promoted to Associate Professor: 2013

Year Promoted to Full Professor:

CITIZEN OF: USA

EDUCATION: [Give name of institution, place, degree type, and date of degree.]

Baccalaureate: BA, Allegheny College, Meadville, PA 1987

Graduate: MA, Immaculata College, Immaculata, PA 1991


PhD, Wayne State University, Detroit, MI 2002

Postgraduate (postdoctoral): Wayne State University, Detroit, MI 2004

Karmanos Cancer Institute, Detroit, MI 2008

Licensure: Licensed Registered Dietitian Nutritionist (LD, RDN) 2024

Certification: Registered Dietitian Nutritionist (RDN) 1990

signature: 

08/13/24

FACULTY APPOINTMENTS AT OTHER INSTITUTIONS (Years and Rank):

[Not administrative appointments; see below.]

Instructor, University of Pittsburgh, School of Health and Rehabilitation Sciences, 1991-1993

Instructor, St. Francis Medical Center School of Nursing, 1993-1997

Research Assistant Professor, Wayne State University, School of Medicine, 2005-2008

PROFESSIONAL SOCIETY MEMBERSHIP(S):

Registered Dietitian Nutritionist (RDN), American Dietetic Association, now called Academy of Nutrition and Dietetics

Environmental Mutagenesis and Genomics Society

HONORS/AWARDS:

1999 First Prize Oral competition, Institute of Food Technologists Annual Meeting

1998-1999 Thomas C. Rumble Fellow, Wayne State University, PhD Fellowship

2000-2001 American Society of Nutritional Sciences Predoctoral Fellow

2011 Plenary Speaker, Annual Meeting of Society for Neurochemistry, Hyderabad, India

2012 Invited Speaker, Gordon Research Conference on Mutagenesis, Newport, RI

2014 Career Development Chair award, Wayne State University

2016 Elected to Council, Environmental Mutagenesis and Genomics Society

2017 Elected to Board, Detroit Food Policy Council

2020 Spirit of Community Award, Wayne State University

2024-2027 Elected to Board of Trustees, Michigan Academy of Nutrition and Dietetics

BIOGRAPHICAL CITATIONS (National/Regional or Professional Directories):

I. TEACHING

A. Years at Wayne State

I have 26 years of teaching experience at Wayne State University

B. Years at Other Colleges/Universities (please list)

I have 7 years of teaching outside Wayne State University

1991-1993 Instructor, University of Pittsburgh, School of Health and Rehabilitation Sciences (Courses taught: Therapeutic Nutrition)

1993-1997 Instructor, St. Francis Medical Center School of Nursing, Pittsburgh, PA

(Courses taught: Normal Nutrition, Clinical Nutrition, Lifecycle Nutrition, Nutrition and Health, Organic Chemistry)

C. Courses Taught at Wayne State in Last Five Years

Listed below are courses taught in last five years. A full listing of all the courses I have developed and taught can be found in my Teaching Portfolio. Since 2008 I have taught 49 courses, represented by 12 unique courses. Of these 12 courses, 9 have been either developed from scratch or have completely redeveloped. I have taught, on average 375 SCH/year, with a range from 180 to 614 SCH. Since 2020 (last five years) I have developed 3 new courses and fully redeveloped another.

1. Undergraduate

NFS 4230: Nutrition and Metabolism: Macronutrients. Fall 2023, Fall 2024 (FULLY REDEVELOPED)

NFS 4231: Nutrition and Metabolism: Micronutrients. Winter 2020, Spring/Summer 2020, Winter 2021, Spring/Summer 2021, Winter 2022, Spring/Summer 2022, Winter 2023, Spring/Summer 2023, Winter 2024, Spring/Summer 2024. (NEW COURSE)

GLS 3830: Topics in Global Studies, Spring/Summer 2024 (NEW COURSE)

2. Graduate

NFS 7800: Capstone Course. Winter 2023, Winter 2024 (NEW COURSE)

D. Essays/Theses/Dissertations Directed

1. Students by Name, Level, Title of Project, Year

PhD students:

Hongzhi Ma	“Folate and genome instability”, 2013
Aqila Ahmed	“Down syndrome, aging and base excision repair”, 2016
Jeneen Ali	“Health Impact: Diabetes Prevention Program” 2022

MS students:

Yizhen Wu	“Impact of folate depletion on folate-metabolizing enzymes”, 2013
Khadijah Alnabbat	“Folate, ribonucleotides and Down syndrome”, 2015
Yasmin Fakhereddin	“Selenium supplementation increases antioxidant response in vitro”, 2015
Aryana Lipisanl	“Detecting and quantifying colonic microbiota” 2015
Ghada Aoun	“The impact of folate depletion on tissue folate status” 2015
Brianna Pace	“DNA Repair and senescence in Down syndrome” 2018
Liz Zanley	“Folate depletion: uracil, dNTP balance and cell cycle” 2019

MA students:

Fernando Costa	“Impact of nutritional intervention in swimmers”, 2011
Jenha Muir	“Oxidative stress and gene expression”, 2011
Stephanie Stewart	“Aging in US and Africa”, 2011
Susan Frontzcak	“Impact of folate on Alzheimer’s disease”, 2012
Alina Hall	“Role of DNA damage and repair in senescence”, 2012
Smar Khan	“MicroRNA and aging”, 2013
Somayyah Sous	“Premature senescence in Down syndrome”, 2013
Kathryn Ayres	“Selenium and oxidative stress” 2013
Sahar Kraydi	“Nutrient-gene interaction in colorectal cancer” 2014
Shawn Raye Cradit	“The role of nutrition on injury”, 2014
Megan Maciag	“Hunger in Detroit”, 2015
Sonia Felice	“Role of probiotics in health” 2016
Cynthia Olekszyk	“Nutritional Care Process in the clinical setting” 2018
Sarah Al-Shwaf	“Clinical Dietetics Practice”, 2020
Peggy Kartz	“Resources for Addressing Food Insecurity”, 2020
Juhee Prakash	“Food Insecurity in Wayne County” MA/MPH, 2021
Jillian Tacia	“Supplemental Nutrition Assistance Program in Food Insecurity”, 2022

BS students/Honors Thesis:

Hala Katato	2014
Juhee Prakash	2017
Megan Carillo	2017
Iman Mekled	2019
Humaira Raza	2023
Francesca Shahinllari	2023

**Undergraduate Students mentored/Internships:
2017**

Reanna Kathawa	Good Food Ambassador
Roby Yousif	Good Food Ambassador
Samantha Graham	Good Food Ambassador

Erin Beattie	Good Food Ambassador
Amelia Feinstein	Good Food Ambassador
Emily Zammit	Good Food Ambassador
Mahir Alsabaey	Good Food Ambassador

2018

Paige Urbano	Detroit Public Schools
Christen Konja	The W Food Pantry
Zachary Web	The W Food Pantry
Kayla Gardner	The W Food Pantry
Elizabeth McMillan	The W Food Pantry
Shady Batarseh	Good Food Ambassador
Rebecca Schultz	Good Food Ambassador
Amelia Feinstein	Good Food Ambassador
Charlotte Messner	Good Food Ambassador
Zeinab Mcheik	Good Food Ambassador
Alana Dansby	Good Food Ambassador
Rama Sada	Fueling Station, WSU Athletic Department
Clarika Mix	Fueling Station, WSU Athletic Department
Kelly Felcyn	Fueling Station, WSU Athletic Department
Alexandra Breves	Fueling Station, WSU Athletic Department
Emma Edwards	Fueling Station, WSU Athletic Department
Kamryn Fox	Fueling Station, WSU Athletic Department
Iulia Parsina	Fueling Station, WSU Athletic Department
Hannah O'Brien	Fueling Station, WSU Athletic Department
Sumaiya Syed	Fueling Station, WSU Athletic Department
Khadije Bazzi	Fueling Station, WSU Athletic Department
Emad Rehman	Fueling Station, WSU Athletic Department
Patrycja Palczynska	Fueling Station, WSU Athletic Department
Zahraa Ayoub	Fueling Station, WSU Athletic Department
Ayah Koujane	Fueling Station, WSU Athletic Department

2019:

Alyssa Washeleski	Fueling Station, WSU Athletic Department
Alexia Moody	Fueling Station, WSU Athletic Department
Nabelee Najjar	Fueling Station, WSU Athletic Department
Salma Koubaa	Fueling Station, WSU Athletic Department
Sarah Hatoum	Fueling Station, WSU Athletic Department
Zahid Salodawala	Fueling Station, WSU Athletic Department
Rima Charara	Fueling Station, WSU Athletic Department
Victoria Turner	Fueling Station, WSU Athletic Department
Remee Minch	Fueling Station, WSU Athletic Department
Pavlina Belishta	Fueling Station, WSU Athletic Department
Iulia Parsina	Fueling Station, WSU Athletic Department
Rama Sada	Fueling Station, WSU Athletic Department
Emma Edwards	Fueling Station, WSU Athletic Department

Kamryn Fox	Fueling Station, WSU Athletic Department
Hannah O'Brien	Fueling Station, WSU Athletic Department
Deena Hamdan	Good Food Ambassador
Omar Abbas	Good Food Ambassador
Brandon Love	Good Food Ambassador
Salma Koubaa	Good Food Ambassador
Brianna Adler	Good Food Ambassador
Siddharth Tirumala	Good Food Ambassador
Samantha Brehmer	Good Food Ambassador
Sarah Hatoum	Good Food Ambassador
Temidayo Fadugba	Good Food Ambassador
Karla Carillo	Good Food Ambassador
Emma Edwards	Good Food Ambassador
Emily Schwab	Good Food Ambassador

2024:

Emily Lloyd	Sports Nutrition Internship
Colette Tibai	Sports Nutrition Internship
Daniela Sanchez	Sports Nutrition Internship
Habiba Islam	Sports Nutrition Internship
Brianna Tabit	Sports Nutrition Internship
Avery Wilson	Sports Nutrition Internship

E. Course or Curriculum Development

Course Development:

NFS6850 (Redeveloped), Controversial Issues in Nutrition

NFS6860 (Developed), Controversial Issues in Clinical Dietetics

NFS6230 (Redeveloped), Nutrition and Physical Performance (Master's)

NFS4230 (Redeveloped), Nutrition and Metabolism, Macronutrients

NFS4231 (Developed), Nutrition and Metabolism, Micronutrients

GLS3830 (Developed), Topics in Global Studies

NFS7230 (Redeveloped), Nutrition and Physical Performance (PhD)

NFS7250 (Developed), Nutrition and Aging

NFS7800 (Developed), Capstone Course in Dietetics

Curriculum Development:

1. Standardized nutrition education curriculum for Good Food Ambassadors, student interns providing nutrition education at the Eastern Market
 2. Developed and standardized nutrition education curriculum for Fresh Prescription, student interns and clinical dietetics students provided nutrition education for community stakeholders. (Funded in part by the Kellogg Foundation).
 3. Developed nutrition education curriculum for a clinic-based health program in Southwest Detroit, as part of the Healthy Table/Mesa Saludable with the Community Health and Social Services Center in Southwest Detroit
- F. Course Materials (Unpublished)
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II. RESEARCH

A. Active Research

Book in progress.

Tentative title: The Demon Metal

Creative nonfiction book on the transition metal, cobalt. This work is described in more detail elsewhere in this package. Current status: I have published public-facing articles related to the book, I have given several presentations on the book, and I have given radio interviews on topics related to this book. Also, a peer-reviewed manuscript derived from this project is in progress.

Public facing scholarship and research (ongoing)

Creative work including public talks, presentations, and media interviews to improve the accessibility of nutrition science to the public, to address misinformation in

nutrition science, and to use storytelling to engage the public in scientific discourse. I am a subject-matter expert for the public. This work connects my academic research with real-world problems and concerns. (See below for lists of presentations and media interviews)

Project Highlight: Sports Nutrition Curriculum Development and Implementation

I initiated an internship for NFS undergraduate students in which I provide content matter expertise to train the students, and to educate athletes and coaches on nutrition intervention in sports performance. This is a layered project in which we draw upon my expertise and the expertise of the athletic trainers to provide students with an experience in applied science and provide athletes with an essential service. The public facing research component of this project is the subject-matter expertise I provide that forms the structure and foundation of the program. Additionally, we are developing plans to collect data. To my knowledge, this is the only Division II athletic program instituting nutrition intervention programs for athletes, and I am developing collaborations with other universities toward developing a model to share with other unfunded nutrition programs in athletics. This project marries teaching, service and research. Of these, it draws most heavily on my subject-matter expertise and as such I have included it under research.

B. Completed Research

The community-based research I have conducted provides public impact. To convey this impact, I have given a brief summary for each research project.

The Kellogg Foundation

5/01/2019 –4/30/2022

Title: Development of Nutrition Prevention Curriculum

Role: PI

Amount: \$45,000

IMPACT: I developed nutrition education curricula for multiple community interventions.

National Kidney Foundation/Gleaners

1/01/19 – 12/30/19

Title: Health Impact: Diabetes Prevention Program (HI:DPP)

Amount: \$88,000

Role: PI

IMPACT: Improved the diabetes prevention program (DPP) completion rates to levels significantly better than national average. Outcomes also included significantly improved glycosylated hemoglobin levels, reduced body weight, and reduced diabetes risk in pre-diabetic participants.

Gleaners Community Food Bank/CHASS

11/18/18 – 5/31/20

Title: The Healthy Table

Amount: \$137,000

Role: Subject-matter expert

IMPACT: Improved food security and food resource management skills in participant population. Reached participants in unique healthcare settings for nutrition intervention. Improved access to local produce, benefiting local growers as well as community participants.

Harvard T.H.Chan School of Public Health

12/01/18 – 11/30/19

Title: CHOICES

Amount: \$50,000

Role: Co-PI

IMPACT: Identified data sources and completed impact modeling for interventions in childhood obesity.

National Kidney Foundation of Michigan (Pilot)

9/01/17 – 3/31/19

Title: Enhancement of the Diabetes Prevention Program with addition of Cooking Matters food skills education

Amount: Unfunded project

Role: PI

IMPACT: Demonstrated efficacy of leveraging community resources on improving both food security and health in participant populations. Developed a model for working with local food banks to deliver national programming. Established foundation for HI:DPP funding (above)

CHASS, Fresh Prescription

2015 – 2018

Amount: Unfunded project

Role: Subject-matter expert

IMPACT: Fresh Prescription was a fruit and vegetable prescription program serving 8 sites in Wayne County. Developed nutrition curriculum delivered by students I trained to deliver the curriculum. Fresh Rx has been a model for Food as Medicine programs across the country. Outcomes included improved management of health conditions by participants, increased produce consumption, and increased spending with local farmers.

Wayne State University, Boost Grant

2015

Total costs: \$35,000

Role: PI

Wayne State University, Career Development Chair Award

2014

Total costs: \$19,000

Role: PI

NIH/NIA, R21

7/1/2013 – 6/30/2015

Total costs: \$418,000

Title: Base excision repair, premature senescence and aging in Down syndrome

Role: PI

Ellison Medical Foundation, New Scholars Award

7/1/2010 – 6/30/2014

Total costs: \$400,000.00

Title: Endogenous retrotransposable elements promote genomic instability with age factors that drive CNV formation and identify the mechanisms by which they arise.

Role: PI

Proteomics Core Usage Incentive Program

09/01/2014

Total costs: \$2000.00

Impact of miR-155 overexpression on protein abundance: relevance to Down syndrome and DNA damage response

Role: PI

New Investigator, Children's Research Center of Michigan 7/1/2008-6/31/2010

Total costs: \$100,000

Title: Mutagenesis and the development of leukemia in Down Syndrome children

Role: PI

American Federation for Aging Research, Research Grant 7/1/2007 – 6/30/2009

Total costs: \$60,000

Title: The aged colon: impact of endogenous damage and proliferative status on chromosome breakage.

Role: PI

National Institutes for Health, F32 ES013643-01, NRSA F32 10/1/2004– 9/30/2007

Title: The impact of folate depletion on DNA base excision repair capacity.

Total costs: \$145,000

Role:PI

American Cancer Society Postdoctoral fellowship CNE 1/1/2005-12/31/2007

Title: Inhibition of DNA repair by folate deficiency increases cancer risk

Role: PI

NOTE: This grant was funded but not activated due to extensive overlap with F32 ES013643-01

National Institutes for Health, NRSA, AG0218939 9/1/2004 – 8/30/2007

Title: Identifying genetic risks for cancer susceptibility

Role: PI

NOTE: This grant was funded but not activated in favor of grant F32 ES013643-01

Karmanos Cancer Institute, Strategic Research Initiative Grant 7/01/2006-6/30/2007

Total costs: \$25,000

Role: PI

NIH/NIEHS Pilot Project Center Grant ES06639 5/1/2005 – 4/30/07

Total costs: \$25,000

Role: PI

National Institutes of Health/NIDDK/NCI R01 1/1/2006– 12/31/2009

Total costs: \$1,057,000.00

Title: Base Excision Repair Deficiency, Folate, and GI Cancer

Role: Co-PI (Co-PI: Ahmad Heydari)

C. Research, Not Funded

Michigan Health Endowment Fund 9/1/2021 – 8/31/2023

Title: Improving Engagement in Low-Income Community Health Programs

Total Costs: \$500,000

Role: PI

National Institutes of Health, NIEHS 4/1/2016–03-31-2018

Title: Arsenic Inhibits Repair of Folate-Dependent DNA Damage Through a Ribonucleotide-Initiated Mechanism

Total Costs: \$406,755

Role: PI

American Cancer Society 7/1/2010 – 6/30/2013

Title: Folate depletion initiates endogenous retrotransposon instability in colon

Total Costs: \$720,000

Role: PI

American Institute for Cancer Research 07/01/2010 – 06/30/2013

Title: Oxidative stress as a source of folate depletion and mutagenicity: Down syndrome as a model

Total Costs: \$165,000

Role: PI

III. PUBLICATION

D. Journal Articles Published (**number of citations**)

1. Refereed Journals

1. **Cabelof, D.C.** (1994). Preventing infection from foodborne pathogens in liver transplant patients. *J. American Dietetic Association*, **94**(10): 1140-4. **(5)**
2. **Cabelof D.C.**, Raffoul J.J., Yanamadala S., Ganir C., Guo Z., Heydari, A.R. (2002). Attenuation in DNA polymerase β -dependent base excision repair pathway and increased DMS induced mutagenicity in aged mice. *Mutation Research*, **500**:135-145. **(129)**
3. **Cabelof D.C.**, Raffoul J.J., Yanamadala S., Guo Z., Heydari, A.R. (2002). Role of DNA polymerase β -dependent base excision repair in response to 2-nitropropane. *Carcinogenesis*, **23**:1419-1425. **(114)**
4. **Cabelof D.C.**, Yanamadala S., Raffoul J.J., Soofi A.S., Guo Z., Heydari, A.R. (2003). Caloric restriction promotes genetic stability by induction of base excision repair and reversal of its age-related decline. *DNA Repair* **2**:295-307. **(147)**
5. **Cabelof D.C.**, Guo Z. Raffoul J.J., Sobol R.W., Wilson, S.H., Richardson, A., Heydari, A.R. (2003). Base excision repair deficiency caused by polymerase β haploinsufficiency: Accelerated DNA damage and increased mutational response to carcinogens. *Cancer Research*, **63**: 5799-5807. **(129)**
6. Raffoul J.J., **Cabelof D.C.**, Nakamura J., Meira L.B., Friedberg E.C., Heydari, A.R. (2004). Apurinic/aprimidinic endonuclease (APE/ref-1) haploinsufficient mice display tissue-specific differences in DNA polymerase β -dependent base excision repair. *J. Biol. Chem*, **279**:18425-18433. **(54)**
7. **Cabelof, D.C.**, Raffoul, J.J., Nakamura, J., Kapoor, D., Abdalla, H., Heydari, A.R. (2004) Imbalanced base excision repair in response to folate deficiency is accelerated by polymerase beta haploinsufficiency. *J Biol Chem*, **279**:36504-36513. **(54)**
8. Liu, M., Ge, Y., **Cabelof, D.C.**, Aboukameel, A., Heydari, A.R., Mohammad, R., Matherly, L.H. (2005): Structure and regulation of the murine reduced folate carrier gene: identification of 4 non-coding exons and promoters and regulation by dietary folates, *J. Biol. Chem.* **280**: 5588-5597. **(79)**
9. **Cabelof, D.C.**, Nakamura J., Heydari, A.R. (2006) Development of a sensitive biochemical assay for the detection of uracil in DNA. *Environmental and Molecular Mutagenesis*, **47**:31-7. **(20)**

10. **Cabelof, D.C.**, Raffoul, J.J., Ge, Y., Van Remmen, H., Matherly, L.H., Heydari, A.R. (2006). Age-related loss of the DNA repair response following exposure to oxidative stress. *J Gerontology, A Biol Sci. Med. Sci.* **61**:427-434. **(72)**
11. **Cabelof, D.C.**, Ikeno, Y., Nyska, A., Busuttill, R.A., Anyanagwe, N., Vijg, J., Matherly, L.H., Tucker, J.D., Wilson, S.H., Richardson, A., Heydari, A.R. (2006) Haploinsufficiency in DNA polymerase β increases cancer risk with age and alters mortality rate. *Cancer Research* **66**:7460-7465. **(94)**
12. Kanellis, P., Gagliardi, M., Banath, J.P., Szilard, R.K., Nakada, S., Galicia, S., Sweeney, F.D., **Cabelof, D.C.**, Olive, P.L., Durocher, D. (2007) A screen for suppressors of gross chromosomal rearrangements identifies a conserved role for PLP in preventing DNA lesions. *PLoS Genet* **3**: 1438-1453. **(80)**
13. **Cabelof, D.C.** (2007) Aging and base excision repair: In need of a comprehensive approach. *DNA Repair (Amst)*. **6**:1399-402. **(4)**
14. Qui, A., Min, S., Jansen, M., Malhotra, U., Tsai, E., **Cabelof, D.C.**, Matherly, L.H., Zhao, R., Akabas, M.H., Goldman, I.D. (2007) Rodent intestinal folate transporters (SLC46A1): secondary structure, functional properties, response to dietary folate restriction. *Am J Physiol Cell Physio* **293**:1669-78. **(169)**
15. Unnikrishnan, A., Raffoul, J.J., Patel, H.V., Prychitko, T.M., Anyangwe, N., Meira, L.B., Friedberg, E.C., **Cabelof, D.C.**, Heydari, A.R. (2009) Oxidative stress alters base excision repair pathway and increases apoptotic response in Apurinin/aprimidinic endonuclease 1/Redox factor-1 haploinsufficient mice. *Free Rad Biol Med* **46**:1488-99. **(75)**
16. **Cabelof DC**, Chen Q, Ge Y, van Remmen H, Matherly LH, and Taub JW (2009) Mutational spectrum at GATA1 provides insights into mutagenesis and leukemogenesis in Down syndrome. *Blood* **114**:2753-63. **(80)**
17. Simon K, Dewundara S, van Remmen H, Dombkowski AA, and **Cabelof DC** (2009) Transcriptional profiling of the age-related response to genotoxic stress points o differential DNA damage response with age. *Mech Ageing Dev* **130**: 637-47. **(12)**
18. Lucente LV, Unnikrishnan A, Pilling AB, Patel HV, Kushwaha D, Dombkowski A, Schmelz EM, **Cabelof DC**, Heydari AR (2010). Folate deficiency provides protection against colon carcinogenesis in DNA polymerase β haploinsufficient mice. *J Biol Chem.* **285**:19246-58.**(30)**
19. Unnikrishnan KA, Prychitko TM, Patel HV, Chowdhury ME, Pilling AB, Ventrella-Lucente LF, Papakonstantionu EV, **Cabelof DC**, and Heydari AR (2011) Folate deficiency regulates expression of DNA polymerase β in response to oxidative stress. *Free Radic Biol Med* **50**:270-80. **(32)**

20. **Cabelof DC** (2012) Haploinsufficiency in mouse models of DNA repair deficiency: modifiers of penetrance. *Cell Mol Life Sci* **69**:727-40. **(22)**
21. Simon KW, Ma H, Dombkowski AA and **Cabelof DC** (2012) Aging alters folate homeostasis and DNA damage response in colon. *Mech Ageing Dev* **133**:75-82. **(10)**
22. Patterson D and **Cabelof DC** (2012) Down syndrome as a model of DNA polymerase beta haploinsufficiency and accelerated aging. *Mech Ageing Dev* **133**:133-7. **(69)**
23. Rosati R, Ma H and **Cabelof DC** (2012) Folate and colorectal cancer in rodents: a model of DNA repair deficiency, *J Oncology* 105949.**(13)**
24. Ahmed AA, Smoczer C, Pace B, Patterson D and **Cress (Cabelof) D** (2018) Loss of DNA polymerase β induces senescence, *Environmental and Molecular Mutagenesis* **59**:603-12. **(12)**
25. Beydoun S, Fardous AM, Saruna MM, Beydoun AG, Sorge JA, Ma H, Aoun G, Unnikrishnan A, **Cabelof DC**, Heydari AR (2021) Succinylsulfathiazole modulates the mTOR signaling pathway in the liver of c57BL/6 mice via a folate independent mechanism, *Exp Gerontol* **150**: 111387 <https://doi.org/10.1016/j.exger.2021.111387> (3)
26. Fardous AM, Beydoun S, James AA, Ma H, **Cabelof DC**, Unnikrishnan A, Heydari AR (2021) The timing and duration of folate restriction differentially impacts colon carcinogenesis, *Nutrients* 14: 16 <https://doi.org/10.3390/nu14010016>. (8)
27. Alnabbat, K, Fardous, A, **Cabelof DC**, Heydari AR (2022) Excessive folic acid induces a functional folate deficiency in Human lymphocytes. *Curr. Issues Mol. Biol.* **44**: 1452-1462. <https://doi.org/10.3390/cimb44040097>. (14)

2. Invited Review Articles

1. **Cabelof DC** (2012) Haploinsufficiency in mouse models of DNA repair deficiency: modifiers of penetrance. *Cell Mol Life Sci* 69:727-40.
2. Patterson D and **Cabelof DC** (2012) Down syndrome as a model of DNA polymerase beta haploinsufficiency and accelerated aging. *Mech Ageing Dev* 133:133-7.
3. Rosati, R, Ma H and **Cabelof DC** (2012) Folate and colorectal cancer in rodents: a model of DNA repair deficiency, *J Oncology* **2012**:105949.

G. Abstracts Published in Academic Journals (only including those that did not progress to full publication)

1. Ali, J., Brown, S. Guindon, A., Mills, S., Beavers, A., Shopinski, S., **Cress, D.**, (2020, July). A community-based intervention reduces diabetes risk in a low-income

community. Oral and Poster Presentation at the Society of Nutrition Education and Behavior (SNEB) National Conference, virtual.

2. Ali, J., Brown, S. Guindon, A., Mills, S., Beavers, A., Shopinski, S., **Cress, D.**, (2020, June). A community-based intervention reduces diabetes risk in a low-income community. Oral and Poster Presentation at the American Society of Nutrition (ASN) National Conference, virtual.

3. Ali, J., Brown, S. Guindon, A., Mills, S., Shopinski, S., **Cress, D.**, (2019, Sep). An effective community intervention to reduce diabetes risk by addressing health disparities and food insecurity. Oral presentation at the Global Health, Justice and the Environment Conference, Detroit, MI.

M. Invited Seminars or Lectures Presented in Last Five Years

- Aug 2024 Nutrition as a tool for improving athletic performance: Cross Country. Wayne State University cross country coaches and team.
- Aug 2024 Nutrition as a tool for improving athletic performance: Volleyball. Wayne State University volleyball coaches and team.
- Aug 2024 Nutrition as a tool for improving athletic performance: Football. Wayne State University football coaches and team.
- Feb 2024 Demon Metal or Essential Nutrient? Brown Bag Series, Wayne State University Humanities Center, Detroit, MI.
- Feb 2024 Demon Metal or Essential Nutrient? Chemistry Seminar, Western Colorado University, Gunnison CO (Given to students to gain feedback and evaluate impact of story-based learning)
- Dec 2023 Invited Speaker: The Role of Nutrition in Athletic Performance. Department of Athletics, Wayne State University
- March 2023 History and Biochemistry of Vitamin B12: Seminar, Department of Natural and Environmental Sciences, Western Colorado University, Gunnison, CO.
- July 2020 Oral and poster presentation: A community-based intervention reduces diabetes risk in a low-income community. Society of Nutrition Education and Behavior National Conference (Jeneen Ali)
- June 2020 Oral and poster presentation: A community-based intervention reduces diabetes risk in a low-income community. American Society of Nutrition National Conference (Jeneen Ali)
- Apr 2020 Invited Panelist and Speaker, 17th Annual Conference in Citizenship Studies, Wayne State University, Detroit, MI

- Dec 2019 Invited Panelist, 9th annual “Celebrating a Healthy Detroit, Social Determinants of Health”, The McKinney Foundation, Detroit, MI
- Nov 2019 Oral Presentation, Annual Biomedical Research Conference for Minority Students, Anaheim, CA (Omar Abbas) “Improved food access improves Diabetes Prevention Program outcomes”.
- Sept 2019 Oral Presentation, Global Health, Justice and the Environment Conference, Detroit, MI (Jeneen Ali) “An effective community intervention to reduce diabetes risk by addressing health disparities and food insecurity”
- July 2019 Poster Presentation, REBUILDetroit Scholar Research Symposium, Detroit, MI (Omar Abbas) “Health Impact: Diabetes Prevention Program”
- Mar 2019 Invited Speaker, 58th Annual Margaret L. King Lecture presented by Southeastern Michigan Dietetic Association and Henry Ford Health System “Why an evidence-based food strategy escapes us: What we can do to make a difference anyway”
- Oct 2018 Invited Speaker, Oakland University Chemistry Department Seminar Series “It’s nearly impossible to define a “best diet”: Why an evidence-based food strategy escapes us”
- June 2018 Invited Speaker, Dante Alighieri Society of Michigan Conference on Sports and Nutrition “Overview of the role of nutrition on athletic performance and well-being”
- Mar 2018 Invited Speaker, Wayne State University School of Medicine “What is the optimal diet”?
- Mar 2018 Invited Speaker, Wayne State University Urban Planning “What happened to the American diet”?
- Mar 2017 Invited Speaker, Wayne State University School of Medicine “Quackery and Nutrition Misinformation”
- Mar 2017 Invited Speaker, Wayne State University Urban Planning “Obesity in America”
- Mar 2016 Invited Speaker, Wayne State University School of Medicine “Micronutrients”
- Dec 2013 Invited Speaker, Karmanos Cancer Institute, Molecular Therapeutics “miR-155 induced inhibition of DNA polymerase beta in Down syndrome”
- Oct 2013 Invited Speaker, Institute of Environmental Health Sciences

- “Down syndrome, DNA base excision repair, and aging”
- Oct 2013 Invited Speaker, University of Denver
“Accelerated aging in Down syndrome and DNA repair”
- Oct 2012 Invited Speaker, Karmanos Cancer Institute, Molecular Imaging and Diagnostics
“Somatic copy number variants accumulate with age and are associated with diseases of genomic instability”
- Aug 2012 Invited Speaker, Gordon Research Conference on Mutagenesis, Newport, RI
“Accumulation of somatic copy number variation with age”
- Sept 2011 Invited Speaker, Annual Meeting of Michigan Dietetics Association, Novi, Mi.
“Oxidative stress and folate metabolism: Mediators of DNA repair in Down syndrome”
- Jan 2011 Plenary Speaker, Annual meeting of Society for Neurochemistry, India (SNCI)
“Mutagenesis in Down syndrome: a role for folate, uracil and base excision repair”
- Jan 2011 Invited Speaker, International Workshop on BER, Brain Function and Aging
“Oxidative stress and folate metabolism: Mediators of DNA repair in Down syndrome”
- Nov 2010 Invited Speaker: Institute of Gerontology, Wayne State University
“Spontaneous copy number variants accumulate with age”
- Dec 2009 Invited Speaker: Chemistry Departmental Seminar
“Spontaneous genomic instability in the aging colon”
- Nov 2009 Invited Speaker: Gerontological Society of America, Atlanta, GA
“Genomic instability in the aging colon: folate and DNA repair”
- June 2008 Invited Speaker, Karmanos Cancer Institute, Aging and Senescence Working Group
“Genomic instability in aging: colon and Down syndrome as model systems”
- Jan 2008 Invited Speaker, Nutrition and Food Science Seminar Series, Wayne State University
“Genomic instability: nutrition, aging and the environment”
- March 2006 Invited Speaker, Karmanos Cancer Institute, Molecular Genetics Program
“Characterization of a critical DNA repair gene as a potential therapeutic target”
- July 2005 Invited Speaker, Karmanos Cancer Institute, Developmental Therapeutics Program
“Impact of Environmental Factors on DNA Repair Capacity and Carcinogenesis”

May 2005 Invited Speaker, Wayne State University, Institute of Environmental Health Sciences “Impact of environmental factors on DNA repair capacity and carcinogenesis”

N. Other Scholarly Work

Public-Facing Scholarship

- Aug 2024 Nutrition as a tool for improving athletic performance: Football. Wayne State University football coaches and team.
- Aug 2024 Nutrition as a tool for improving athletic performance: Volleyball. Wayne State University volleyball coaches and team.
- Aug 2024 Nutrition as a tool for improving athletic performance: Cross Country. Wayne State University cross country coaches and team.
- Mar 2024 **USA Today**, Jennifer Lopez’ “rice hack” weight loss video is altered/Fact Check
- Feb 2024 **Brown Bag Series, Wayne State University**, Demon Metal or Essential Nutrient?
- Feb 2024 **Western Colorado University**, Demon Metal or Essential Nutrient?
- Dec 2023 **Department of Athletics, Wayne State University**, The Role of Nutrition in Athletic Performance.
- Mar 2023 **Western Colorado University**, History and Biochemistry of Vitamin B12
- Nov 2023 **CBS Detroit Morning News**, How to Avoid Overeating and Food Waste at Thanksgiving
- Apr 2023 **Detroit News, Op-Ed**, Cress: Reducing Food Waste Can Reduce Hunger
- Mar 2023 **CBS Detroit Evening News**, Experts Speak on Eating More Sustainably
- Jan 2023 **Detroit Free Press**, Health Experts Explain Benefits of Dry January
- Nov 2022 **The Conversation**, Vitamin B12 deficiency is a common health problem that can have serious consequences – but doctors often overlook it (over 1 million views)
- Nov 2022 **KCBS, San Francisco, CA**, Radio Interview follow to Vitaman B12 story

- July 2020 **Authority Health**, What-Aboutism at the Plate
- Nov 2020 **NPR, WDET**, Make Homemade Broth, and other Nutritionist Tips during COVID-19
- Aug 2020 **Make Food Not Waste Annual Symposium** “Reading and Understanding Food Labels: Preventing Food Waste”
- Mar 2020 **ABC Morning News Detroit**, Stocking a healthy pantry
- Feb 2018 **Hour Magazine**, To Eat or Not to Eat?
- Jun 2018 **Dante Alighieri Society of Michigan** Conference on Sports and Nutrition
“Overview of the role of nutrition on athletic performance and well-being”
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Meeting Oral and Poster Presentations

- July 2019 REBUILDetroit, Summer Research Experience, Detroit, MI
“Health Impact: Diabetes Prevention Program”
Poster Presentation
- May 2016 Midwest DNA Repair Symposium, Columbus, OH
“DNA repair and premature senescence in Down syndrome”
- May 2014 Midwest DNA Repair Symposium, Detroit, MI
“miR-155 overexpression and DNA base excision repair in Down syndrome”
- May 2013 Midwest DNA Repair Symposium, Lexington, KY
“DNA base excision repair and senescence in Down syndrome”
Poster presentation
- May 2012 Midwest DNA Repair Symposium, Cincinnati, OH
“Evaluating base excision repair as a source of segmental progeria in Down syndrome”
Poster presentation
- May 2012 Midwest DNA Repair Symposium, Cincinnati, OH
“Uracil accumulation in response to folate depletion correlates to UDG activity:
Poster presentation

- May 2012 Midwest DNA Repair Symposium, Cincinnati, OH
“Folate depletion alters Ung-dependent drug sensitivity to oxidative stress and folate antagonists”
Poster presentation
- May 2011 Midwest DNA Repair Symposium, Toledo, OH
“Impact of folate depletion on uracil metabolism exhibits a tissue-specific response that may be lost with age”.
Poster Presentation
- May 2011 Midwest DNA Repair Symposium, Toledo, OH
“Aberrant oxidative stress response in Ung^{-/-} mouse embryonic fibroblasts”
Poster presentation
- Sept 2009 American Federation for Aging Research, Santa Barbara, CA
“Spontaneous chromosomal amplification in the aging colon”
Poster presentation
- Feb 2009 Gordon Research Conference, Mammalian DNA Repair, Ventura, CA
“Spontaneous chromosomal amplification in the aging colon”
Poster Presentation
- Feb 2007 Gordon Research Conference, Mammalian DNA Repair, Ventura, CA
“Altered DNA damage response with age: Do old mice escape DNA damage checkpoints”
Poster Presentation
- Sept 2005 International Conference on Environmental Mutagens, San Francisco, CA
“A causative role for the loss of DNA polymerase beta in aging”?
Poster Presentation
- June 2005 7th Annual Midwest DNA Repair Symposium, Detroit, MI
“A causative role for the loss of DNA polymerase β in aging”
Oral Presentation
- Jan 2005 Gordon Research Conference, Ventura, CA
“Induction of chromosomal instability and tumors in β -pol haploinsufficient mice”
Poster Presentation
- May 2004 6th Annual Midwest DNA Repair Symposium, Lexington, KY

- “Imbalanced Base Excision Repair in Response to Folate Deficiency is Accelerated by β -pol haploinsufficiency”
Oral Presentation
- May 2003 5th Annual Midwest DNA Repair Symposium, Rochester, MN
"Base excision repair modulates the effects of folate deficiency"
Oral Presentation
- May 2002 4th Annual Midwest DNA Repair Symposium, Cincinnati, OH
"Caloric restriction modulates base excision repair activity - A role for p53"
Oral Presentation
- Apr 2002 Experimental Biology Annual Meeting, New Orleans, LA
"Role for p53 in base excision repair"
Oral Presentation
- Jun 2001 3rd Annual Midwestern DNA Repair Symposium, Indianapolis, IN
"Sensitivity of BER-deficient mice to various carcinogens"
Oral Presentation
- Mar 2001 Experimental Biology Annual Meeting, Orlando, Florida
"Role of beta-pol-dependent base excision repair in the *in vivo* processing of damage induced by oxidative and alkylating agents."
Oral Presentation
- May 2000 2nd Annual Midwest DNA Repair Symposium, Louisville, Kentucky
"Up-regulation of base excision repair in response to oxidative damage in mice and rats."
Oral Presentation
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IV. SERVICE

A. Administrative Appointments at Wayne State in Last Five Years

Graduate Director, Nutrition and Food Science, 2017 - 2019

C. Committee Assignments in Last Five Years

1. University Committee Chaired
2. University Committee Membership

Internal Program Reviewer, Kinesiology Health Sciences, 2024

University Research Grant—Biological and Life Sciences Subcommittee, 2022-2023

University Research Grant –Biological and Life Sciences Subcommittee, 2014-2015

Graduate Professional Scholarship Reviewer, 2015, 2016, 2017, 2018, 2019

3. College/Department Committee Chaired

Chair, Faculty search Committee (Department) 2019

Chair, Promotion and Tenure Committee (Department), 2014-2015

4. College/Department Committee Membership

CLAS Dean review, 2022-2023

Chair, Faculty Search Committee, 2018

Merit and Salary Committee (College), 2016 – 2017

Diversity Council (College), 2016

Search Committee, NFS Department Chair (Department), 2014

Undergraduate Committee (Department), 2012-2014

Graduate Committee (Department), 2015 – 2017

Salary Committee (Department), ongoing

D. Positions Held in Professional Associations in Last Five Years

1. Board of Trustees, Michigan Academy of Nutrition and Dietetics, 2024

2. Environmental Mutagenesis and Genomics Society, elected DNA Repair SIG committee member, 2014-2017

3. Environmental Mutagenesis and Genomics Society, elected Council Member, 2016
- 2018

E. Membership/Offices Held in Public or Private Agencies Related to Discipline in Last
Five Years

1. Board/Council Member, Detroit Food Policy Council, Elected 2017-2019

F. Professional Consultation

1. Public Presentations as an Expert in Discipline

Multiple presentations to various media outlets, listed above in “Other Scholarly
Work”

March 2008: Presentation on Healthy Nutrition to Smith Middle School, Troy,
MI

September 2011: Invited Speaker, Michigan Dietetics Association

June 2018: “Overview of the role of nutrition on athletic performance and well-
being”

March 2019: “Why an evidence-based food strategy escapes us: What we can do
to make a difference anyway”

Dec 2023: “The Role of Nutrition in Athletic Performance”. Department of
Athletics, Wayne State University

G. Journal/Editorial Activity

2. Editorial Board Memberships

Editorial Board, Mechanisms of Ageing and Development, 2014-2017

H. Other Professionally Related Service

**1. Reviewer for DNA Repair, Mechanisms of Ageing and Development, Free Radical
Biology and Medicine, Neurochemical Research, Experimental Gerontology, PLoS One,
Proceedings of the National Academy of Sciences, FASEB, Neurobiology of Aging**

2. Organized and hosted 16th Annual Midwest DNA Repair Symposium, 2014
3. Reviewer, NIH/NIEHS Special Emphasis Panel ZES1 LWJ-J (C3), 2014
4. Reviewer, NIH/NIA Aged Cell Bank Review Committee, ZAG1 Z1J5, 2014
5. Reviewer, American Federation for Aging Research Midcareer Award. 2015, 2016
6. Reviewer, American Federation for Aging Research Breakthrough in Gerontology Award, 2015, 2016
7. Organizer, National Sports Day Conference, Wayne State University, 2018
8. Board Member, Detroit Food Policy Council, 2017 – 2020
9. Board of Trustees, Michigan Academy of Nutrition and Dietetics, 2024 - 2027