**Brian Paul Ceresa, Ph.D.**
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Fax: (502) 852-7863
brian.ceresa@louisville.edu

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**EDUCATION**

| | |
|---|---|
| 1986 – 1990 | B.S., Chemistry (cum laude), Providence College, Providence, RI |
| 1990 – 1995 | Ph.D., Pharmacology (Lee Limbird, Ph.D), Vanderbilt University, Nashville, TN |
| 1995 – 1998 | Post-doc, Dept Physiology and Biophysics (Jeff Pessin, Ph.D), University of Iowa, Iowa City, IA |
| 1998 – 2000 | Post-doc, Dept Cell Biology (Sandra Schmid, Ph.D), Scripps Research Institute, La Jolla, CA |

**ACADEMIC APPOINTMENTS**

| | |
|---|---|
| 06/2000 – 06/2010 | Assistant Professor |
| 07/2010 – 06/2012 | Associate Professor<br>Department of Cell Biology<br>University of Oklahoma Health Sciences Center<br>Oklahoma City, OK |
| 07/2012 – 06/2017 | Associate Professor |
| 07/2017 – Present | Professor<br>Department of Pharmacology and Toxicology<br>University of Louisville<br>Louisville, KY |
| 07/2012– 06/2017 | Associate Professor (Secondary) |
| 07/2017 – Present | Professor<br>Department of Ophthalmology and Vision Sciences<br>University of Louisville<br>Louisville, KY |

**OTHER POSITIONS AND EMPLOYMENT**

| | |
|---|---|
| 01/2003 – 06/2012 | Full Member – University of Oklahoma Cancer Institute |
| 01/2001 – 12/2015 | Full Member OUHSC Graduate Faculty (Active) |
| 07/2012 – Present | Full Member Brown Cancer Center – Molecular Target Group |
| 07/2012 – Present | Graduate Research Training Faculty, Univ. of Louisville, School of Medicine |

**CERTIFICATION AND LICENSURE**

| | |
|---|---|
| Date | Not Applicable |

**PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

| | |
|---|---|
| 2005- present | Member, American Society of Cell Biology |
| 2009- present | Member, Association of Research in Vision and Ophthalmology |

**HONORS AND AWARDS**

| | |
|---|---|
| 1986 – 1990 | Presidential Scholarship, Providence College |
| 1996-1998 | JDRF Postdoctoral Fellowship |
| 2007 | Provost's Junior Faculty Research Award, OUHSC |

**COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES**

**A. National/International Service**

10/2002, 08/2014, 08/2015, 8/2016, 8/2020 VA Administration Grant Review
11/2004 Alberta Heritage Medical Research Foundation (Canada)
7/2006 National Science Foundation
5/2007 Phillip Morris External Research Program
3/2009 Mary Kay Ash Foundation
7/2009;03/2011;12/2012;10/2013;2/2015;2/2016;7/2016; 2/2018, 11/2021 -Oak Ridge Associated Universities
3/2011,3/2012 American Heart Association (Proteins & Crystallography (PC))
4/2011 Israel Science Foundation
9/2014 University of Kentucky COBRE (external JPI reviewer)
3/2016 National Polish Science Center
6/2016; 10/2016; 6/2019; 10/2019 BDCN(J) NIH Ocular Surface, Cornea, and Refractive Error NEI review panel
10/2017; 10/19;10/20 NIH - VSN (03)/NEI Training Grants
1/2017; 1/2019 Natural Sciences and Engineering Research Council of Canada
1/2021 CDMRP Review Panel

**B. University of Louisville**

**1. Departmental Service**

2014 Pharmacology & Toxicology Search Committee
2013– Present Graduate Student Affairs Committee
2014 – 2017 Director of Admissions and Recruitment
2017 – Present Thread Director Medical Pharmacology

**2.Graduate College Service**

2015- 2018 SIGS Graduate Council
2015- 2018 SIGS Scholarship and Awards Committee

**3. University Service**

2013-Present Judge Research!Louisville
2014 Judge R25 Summer Cancer Research Program
2017-Present Co-Director NEI T35 Summer Vision Sciences Research Program
2019 – Present College of Medicine Student Promotions Committee
2017 – Present Educational Program Committee
2019 – Present School of Medicine Student Promotions Committee

**4. Service to Community**

2015 BioRad Ambassador at Chenoweth Elementary
2016-2017 Judge Meyzeek Middle School Science Fair

**B. University of Oklahoma Health Sciences Center**

**1. Departmental Service:**

2004 – 2012 Cell Biology Retreat Organizing Committee (Chair)
2004 – 2012 Director Molecular Medicine Specialization
2003 – 2006 Qualifying Exam Committee
2003; 2007-8; 2010-11 Cell Biology Faculty Search Committee
2001 – 2011 Director Cell Biology Journal Clubs
2009 – 2012 Departmental Travel Award Committee
2010 – 2012 Cell Biology Graduate Education Committee

**2. Graduate College Service:**

2001 – 2003; 2005-2008, 2010-12 Judge for GREAT Symposium

| | |
|---|---|
| 2004 – 2007 | GPiBs Admission committee (Chair 2006-2007) |
| 2003 | Graduate College Dissertation Award Committee |
| 2002 – 2008 | Graduate Student Appeals Board (Chair 2004-2008) |
| 2008-2009 | Academic Misconduct Board |
| 2002 – 2006 | Summer Undergraduate Research Experience (SURE) Committee |
| 2011-2014 | Graduate College Council Representative from College of Medicine (elected) |
| 2011-2012 | College of Medicine Academic Misconduct Board |
| 2011- 2012 | Graduate Faculty Review Committee (chair-2011) |

**3. University Service:**

| | |
|---|---|
| 2005 – 2010 | HPV Subcommittee of Gyn/Onc - OU Cancer Instit (Chair) |
| 2002 –3;2006 | Reviewer for grants in PHF |
| 2002 – 2012 | Radiation Safety Committee |
| 2011 | Institutional Biosafety Committee (ad hoc) |
| 2011 | Charles and Peggy Stephenson Cancer Center Grant Review |

**4. Service to Community**

June 22, 2003 – Speaker – American Cancer Society Relay for Life, OKC Chapter
June 22, 2004 – Speaker – American Cancer Society Relay for Life, OKC Chapter
October 8, 2004 – Speaker – American Cancer Society Relay for Life, Stigler, OK
November 30, 2004 - The Daily Oklahoman Tuesday Science Health Column
June 21, 2005 – Speaker– American Cancer Society Relay for Life, OKC Chapter
April 9, 2005 - Oklahoma Innovations Radio Show – OCAST Health Research Conf.
June 9, 2006 - Speaker – American Cancer Society Relay for Life, Tulsa Chapter

**EDUCATIONAL ACTIVITIES**

**1. Course participation:**

**A. University of Louisville**

**1. Department of Pharmacology and Toxicology**

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|---|---|
| 2014 – 2015 | Principles of Drug Action (course director) – 16 lecture hours |
| 2015 – 2017 | Methods in Pharmacology (Fluorescence) 3 hours |
| 2016 – 2017 | Pharmacology I/II (co-course director) – 10 hours |
| 2017 – 2019 | Pharmacology I/Toxicology I (ADME) - 6 hours |
| 2020 | Pharmacology I (co-course director) – 22 hours |

**2. Intradepartmental (University of Louisville)**

| | |
|---|---|
| 2013 – Present | Cell Biology (BIOC667-01) Membrane Trafficking (4.5 hrs) |
| 2016 – 2019 | R25 Summer Program – "How to Prepare a Personal Statement" |

3**. Professional**

| | |
|---|---|
| 2014 – Present | Medical Pharmacology (Drug metabolism/Pharmacodynamics) – 2 hours |
| 2016 – Present | Dental Pharmacology (Drug metabolism/Pharmacodynamics; Sex hormones) – 2 hours |
| 2017 – Present | Endocrine and Reproduction Module – Ob/Gyn Pharmacology, Contraception, Androgens, Glucocorticoids – 4 hours |
| 2018 – Present | Psychiatry Module – Alcohol, Drug-Drug interactions |
| 2017 – Present | Problem-based Learning Tutor (20 hours/year) |
| 2018 | Basic Principles of Pharmacology (2 hours) |

**B. University of Oklahoma HSC**

**1. Department of Cell Biology**

2000 Cellular and Develop. Biology (Receptor Tyrosine Kinases) – 4.5 contact hours
2001 – 2011 Coordinator Cell Biology Journal Clubs
Recruits faculty to serve as moderators for one of three Journal Clubs offered by the Cell Biology Department. Assigns grades to students. Corresponds with the students to address concerns, deficiencies, etc.
2001 – 2005, 2010 Co-director General Cell Biology Journal Club (30 hours/year)
2002 – 2009, 2011 Co-director Signal Transduction Journal Club (30 hours/year)
2011 – 2012 Departmental Liaison for Pharmacology in the Medical School Curriculum (Oversees coverage of Pharmacology in the pre-clinical Curriculum)

**2. Intradepartmental/College (University of Oklahoma HSC)**

2001 – 2011 GPiBs – Cell Systems II (Recept. Theory, Recept. Tyr. kinase) – 6 hours/year
2000 – 2003 Co-Director First year Journal Club – 30 contact hours/year
2006 – 2007 Biochemical Pharmacology (Receptor theory) – 2 hours/year
2007 – 2009 Current Literature in Microbiology and Immunology (Papillomaviruses) 3 hrs/year
2003 – 2007 GPiBs – Molecular Signaling and Regulation – 4.5 hours/year
2009 – 2010 Molecular Virology (GPiBs Module) – 3 hours/year
2011 – 2012 Molecular Vision (GPiBs Module) – 1.5 hours/year
2001 – 2006 SURE Program Summer Enrichment – "Reading the Scientific Literature" and Journal Club presentations – 3 hours/year

**3. Professional**

2001 – 2011 Dental/Allied Health Pharmacology (Basic Principles, Pharmacokinetics, Drug Disposition, Anti-Diabetes Drugs) – 9 hours/year
2001 – 2010 Medical Pharmacology (Basic Principles, Pharmacokinetics, Drug Disposition, Anti-Diabetes Drugs) – 10 hours/year
2010 – 2011 Disease, Diagnosis, and Therapeutics (First Year Medical School) (Basic Principles, Pharmacokinetics, Drug Disposition) – 10 hours/year
2010 – 2012 Nutrition and Metabolism Modules (First Year Medical Curriculum) 2 hours/year

**2. Other teaching, activities**

**A. University of Louisville**

**Graduate College**

2012 – Present Research Teaching Faculty (Active)
2015 – 2018 SIGS Graduate Council

**Thesis Committees –**
**Chair:**

2015 – 2018 Jamie Rush (Pharmacology & Toxicology)

**Dissertation Committees –**
**Chair:**

2021 – Present Kate Tarvestad (Pharmacology & Toxicology)
2016 – 2021 Christine Kim (Pharmacology & Toxicology)
2014 – 2018 Julie Gosney (Pharmacology & Toxicology)
2013 – 2017 Nicole Jackson (Pharmacology & Toxicology)

**Member:**

2020 – Present Muge Sak (Biochemistry and Molecular Genetics)
2017 – Present Marc Dwenger (Pharmacology & Toxicology)

2016 – 2018 Christopher Nevitt (Biochemistry and Molecular Genetics)
2015 – 2017 Zimple Kurlawala (Pharmacology & Toxicology)
2014 – 2017 Christopher Shidal (Pharmacology & Toxicology)
2015 – 2020 Amanda Pulsifer (Immunology and Microbiology)
2015 – 2018 Josiah Hardesty (Biochemistry and Molecular Genetics)
2013 – 2014 Christopher England (Pharmacology & Toxicology)

**B. University of Oklahoma HSC - Graduate College**

**Thesis Committees –**

2003 – 2004 Debbie Gilmore (Neuroscience)

**Dissertation Committees –**

**Chair:**

2010 – 2013 Joanne Peterson (Cell Biology)
2005 – 2009 Phillip Vanlandingham (Cell Biology)

**Member:**

2001 – 2006 Eric Phelps (Cell Biology)
2001 – 2006 Vidya Vedham (Microbiology)
2002 – 2005 Anu Pradhan (Neuroscience)
2003 – 2005 Shekhar Kamat (Cell Biology)
2003 – 2008 George Risinger (Cell Biology)
2005 – 2008 Adam Hoffhines (Cell Biology)
2005 – 2009 Harshini Mehta (Cell Biology)
2006 – 2009 Tamara Poptapova (Cell Biology)
2006 – 2009 Shikha Malhotra (Cell Biology)
2006 – 2010 Salika Shakir (Microbiology)
2006 – 2009 Sehyun Kim (Cell Biology)
2009 – 2012 Madhu Pandey (Biochemistry)
2010 – 2013 Ed Nygen (Cell Biology)
2010 – 2015 Seokho Kim (Cell Biology)
2011– 2013 Dawei Sun (Cell Biology)
2011– 2012 Kandice Tessneer (Biochemistry)
2011– 2012 Lea Marchette (Cell Biology)

**C. University of Alberta**

**External Reviewer:**

2017 – Ping Ping Wee (Dept. of Medical Genetics)

**D. MacQuarie University, Sydney, Australia**

**External Reviewer:**

2019 - Ivan de Jesus Salazar Estrada (Dept. of Chemistry)

**3. Mentoring:**

**A. University of Louisville**

**Undergraduates/Medical Students:**

Summer 2019 Kate Tarvestad, University of Notre Dame
Summer 2019 Omair Ahmed, University of Louisville School of Medicine
Summer 2018 Christopher Artner, University of Louisville School of Medicine
Summer 2017 Jay C. Patel, University of Louisville School of Medicine
Summer 2015 Hailey Griffey, University of Louisville

Summer 2014 Adrienne Voelker, University of Notre Dame
Summer 2013–14 Tejas Sangoi, St. Louis University

**Rotation Students:**

Fall 2012 Nicole Jackson (Pharmacology & Toxicology)
Fall 2012 Laura Keller (Pharmacology & Toxicology)
Fall 2014 Julie Gosney (Pharmacology & Toxicology)
Fall 2016 Christine Kim (Pharmacology & Toxicology)
Fall 2019 Andrew Orwick (Pharmacology & Toxicology)
Fall 2019 Nicholas Hoffman (Pharmacology & Toxicology)
Fall 2019 Tyler Gripshover (Pharmacology & Toxicology)
Fall 2020 Kate Tarvestad (Pharmacology & Toxicology)

**Graduate Students:**

Fall 2012 Nicole Jackson (Pharmacology & Toxicology)
Fall 2014 Julie Gosney (Pharmacology & Toxicology)
Fall 2016 Christine Kim (Pharmacology & Toxicology)
Fall 2020 Kate Tarvestad (Pharmacology & Toxicology)

**Post-doctoral Fellows:**

2013 – 2015 Luis Neves, Ph.D.
2013 – 2015 – Adriana Simonescu-Bankston, Ph.D.

**B. University of Oklahoma Health Sciences Center**

**Undergraduates:**

Summer 2009 Shayna Pratt, OK Christian University
2007- 2008 Tiffany Verghese (OSSM)
2005-2006 Michael Ding (OSSM)
Fall 2005 – Fall 2007 – Lacey Adams, OK Christian University
Fall 2003- Spring 2005 – Dustin Hyatt, OK Christian University
Summer 2004 – SURE Student Robert Crane (Univ. Central OK)
Summer 2002 – SURE Student – Kefa Njengah (Univ. Central OK)

**Medical:**

Summer 2011 – Luke Engelman (MSI)
Summer 2006 – Robert Crane (MSII)

**Rotation Students:**

Fall 2011 – Robert Jackson (GPiBs - OUHSC)
Fall 2011 – Caleb Martin (GPiBs - OUHSC)
Fall 2010 – Qian Chen (GPiBs - OUHSC)
Winter 2010 – Joanne Peterson (GPiBs - OUHSC)
Fall 2006 – Katherine Heil (GPiBs - OUHSC)
Fall 2005 – Ioana Boeras (GPiBs - OUHSC)
Fall 2004 – Stacie Brown (GPiBs - OUHSC)
Fall 2002 – Breca Tracy (GPiBs - OUHSC)

**Post-doctoral Fellows:**

2004 – 2009 – Lulin Hu, M.D., Ph.D.

**Faculty:**

2009-2011 (Summers) – Eric Phelps, Ph.D. Assist. Prof. OK Christian University

**CLINICAL ACTIVITIES -** Not Applicable

**GRANTS AND CONTRACTS**

**A. Current:**

1. NIH/NEI EY028911 (PI:Ceresa) 02/01/19 – 01/31/24
   R01: Chemical Optimization of c-Cbl antagonists for Corneal Wound Healing
   Role: PI (30% effort) Total Funding: $1,925,000

2. NIH/NEI T35EY026509 (PI:Ceresa/Guido) 07/01/17 – 04/28/22
   T35: Summer Vision Sciences Training Program
   Role: Co-PI (5% effort) Total Funding: $193,732

**B. Pending**

**C. Completed Projects**:

1. DoD Breast Cancer Initiative (PI:Ceresa) 07/1/99 – 06/30/02
   "EGF Receptor Signaling in Endocytosis Deficient Cells" DAMD17-99-1-9367
   Role: PI (30% effort) Total Direct Funding: $124,802
   ** Post-doctoral Fellowship at Scripps Res. Inst., transferred to OUHSC.

2. Wendy Will Case Cancer Fund (PI:Ceresa) 01/1/02 – 12/31/02
   "Regulation of EGFR Signaling by the Endocytic Pathway"
   Role: PI (40% effort) Total Direct funding: $25,000.

3. OK Center Adv. of Science and Technology (PI:Ceresa) 09/1/00 – 06/30/03
   "EGFR Signaling Regulated by the Endocytic Pathway"
   Role: PI (30% effort) Total Direct Funding: $135,000

4. OK Center Adv. of Science and Technology (PI:Ceresa) 07/01/03 – 06/30/06
   "Does HPV16 E5 affect EGFR Endocytosis and Signaling?"
   Role: PI (30% effort) Total Direct Funding: $135,000

5. Presbyterian health Foundation (PI:Ceresa) 05/01/06 – 04/30/07
   "EGFR Signaling During Endocytosis"
   Role: PI (30% effort) Total Direct Funding: $30,000

6. American Cancer Society – RSG-03-021-01-CSM (PI:Ceresa) 01/01/03 – 12/31/08
   "Regulation of EGFR signaling by the Endocytic Pathway?"
   Role: PI (40% effort) Total Direct Funding: $600,000

7. Milheim Foundation (PI:Ceresa) 07/01/07 – 06/30/08
   "Induction of Polyploidy by HPV E5"
   Role: PI (15% effort) Total Direct Funding: $10,000

8. Mary Kay Ash Foundation (PI:Ceresa) 07/01/08 – 06/30/10
"HPV16 E5 Mediated Cell Fusion in Oncogenesis"
Role: PI (10% effort) Total Direct Funding: $100,000

9. NIH Vision COBRE (PI:Anderson) 07/01/08 – 06/30/09
"EGFR-mediated Corneal Epithelial Wound Healing"
Role: Early Career Investigator (25% effort) Total Direct Funding: $75,000

10. NIH/NEI 5P30EY012190 (PI: Anderson) 07/01/09 –12/31/11
Vision COBRE: "EGFR-mediated Corneal Epithelial Wound Healing"
Role: Early Career Investigator (30% effort) Total Direct Funding: $300,000
(Terminated due to funding of NEI grant 1R01EY021497-01A1)

11.NIH/NCRR P20RR016478 (PI:Akins) 04/1/10 –3/30/11
INBRE Collaborative Grant application $60,920
"Developing an in vivo model of the human papillomavirus E5 oncogene using Drosophila melanogaster as a model organism."
Role: Mentor to Joseph Ahlander, Ph.D, Northeast Oklahoma State University (5% effort)

12. OK Center Adv. of Science and Technology (PI:Ceresa) 08/01/10 – 06/30/12
"Regulation of EGFR mediated corneal wound healing"
Role: PI (18% effort) Total Direct Funding: $135,000

13. NIH/NIGMS 1R01GM092874(PI: Ceresa) 09/01/10-08/31/15
R01:"Endocytic Regulation of EGFR Signaling"
Role: PI (30% effort) Total Direct Funding: $600,000

14. NIH/NEI 1R01EY021497 (PI:Ceresa) 01/01/12 – 12/31/14
R01: Modulation of EGFR Signaling to Promote Corneal Wound Healing
Role: PI (50% effort) Total Direct Funding: $750,00

15. PanOptica, Inc. OICN141415 (PI:Ceresa) 08/15/14 – 09/15/15
"The Effect of PAN-90806 on EGFR-mediated Corneal Epithelial Homeostasis"
Role: PI (20% effort) Total Funding: $120,400

16. NIH/NEI R21EY027032 (PI:Ceresa) 07/01/16 – 01/31/19
R21: Identifying novel c-Cbl antagonists to promote corneal epithelial regeneration
Role: PI (30% effort) Total Funding: $423,500

17. Jewish Heritage Foundation for Excellence 11/1/18 – 10/31/19
"Chemical Optimization of c-Cbl antagonists for corneal wound healing"
Role: PI (10% effort) Total Funding: $50,000

18. NIH/NCI R01CA193220 (PI:Beverly) 08/1/15 – 07/31/21
R01: Ubiquilin1 regulates EMT and metastasis of human lung adenocarcinoma
Role: Co-I (1% effort) Total Funding: $1,750,890

**PATENTS** None

**EDITORIAL WORK**

**Ad Hoc**

EMBO Journal, EMBO Reports, Experimental Cell Research, Histology and Histopathology-Cellular and Molecular Biology, Molecular Biology of the Cell, Molecular and Cellular Biology, Traffic, Journal of Cell Science, Investigative Ophthalmology & Visual Science, Journal of Molecular Histology, Biology of the Cell, BBA - Molecular Cell Research, Virology Journal, Journal of Ocular Pharmacology and Therapeutics, Oncogene, Drug and Food Toxicology, PLOS One, Molecular Pharmaceutics, African Journal of Pharmacy and Pharmacology, Biomaterials Science, Journal of Cell Biochemistry, Trends in Cell Biology, FEBS Letters, Journal of Cancer, Communicative and Integrative Biology, Cancers, Mol. Cell Endocrinology, Experimental Eye Research, International Journal of Molecular Science, Nanoscale, Science Signaling, Nanomaterials, International Journal of Nanomedicine, Current Biology, Cells, Nanoscale, Achieves of Oral Biology, Biomedicine and Pharmacology Therapy, Current Pharmaceutical Biotechnology, Heliyon, Biomedical Reports, Cell and Molecular Biology Letters

**Editorial Boards**

2013 – Present Frontiers in Cell Biology (Membrane Trafficking Section)

**ABSTRACTS AND PRESENTATIONS** (Number each and include relevant date)

**ORAL PRESENTATIONS**

**Invited Seminars:**

1. July 24, 2003 – Oklahoma State University “Rab5 as a regulator of Endocytic Trafficking”
2. February 4, 2004 – Oklahoma Christian University “Regulation of Endocytic Trafficking of the EGFR”
3. Oct 15, 2004 – Oklahoma State University, Center for Health Sciences “Rab5 Regulation of EGFR Endocytic Trafficking”
4. April 20, 2006 – Geisinger Clinic, Danville, PA – “Rab7 Regulation of EGFR Endocytic Trafficking”
5. February 18, 2009 – University of Nebraska, Lincoln – “HPV16 E5 Mediated Cell:Cell Fusion - A New Model for Inducing Carcinogenesis
6. January 22, 2010 – Oklahoma Christian University “Manipulating the Activity of the Epidermal Growth Factor Receptor To Promote Corneal Epithelial Wound Healing”
7. March 25, 2011 – Harrison School of Pharmacy, Auburn University “Optimizing Epidermal Growth Factor Receptor Activity by Modulating Its Endocytic Trafficking"
8. May 17, 2011 – University of Vermont, Department of Pharmacology “Optimizing Epidermal Growth Factor Receptor Activity by Modulating Its Endocytic Trafficking”
9. January 19, 2012 – University of Louisville, Department of Pharmacology and Toxicology, “Modulation of Epidermal Growth Factor Endocytic Trafficking to Enhance Cell Physiology”
10. December 15, 2012 – American Society of Cell Biology, “Endocytosis and Signaling” Workshop “EGFR Signaling from the Endosome”
11. October 1, 2013 – University of Kentucky, Department of Biochemistry, “EGFR trafficking in the Corneal Epithelium”
12. November 20, 2014 – University of Oklahoma Health Sciences Center, Cell Biology “Modulating EGFR to Promote Corneal Epithelial Regeneration”
13. November 10, 2017 – University of Alberta, Edmonton, CA, Medical Genetics “Modulating EGFR Endocytic Trafficking to Promote Corneal Epithelial Wound Healing”

**Local Seminars:**

1. January 2001: Molecular Pathology Conference – “Determinants of Gene Expression II: Cell Signaling”
2. January 2001: Oklahoma Center for Neuroscience Hot Topics – “Cell Signaling: 2001 and Beyond”
3. May 2006: HPV Research Month at the OU Cancer Institute – “Designing a Tissue Culture Model to Study the Effects of HPV16 E5 on EGFR Trafficking and Signaling”
4. January 2008: Cell Biology and Biochemistry Seminar Series – “HPV16 E5 induces polyploidy by Cell Fusion”

5. September 2011: Dean McGee Eye Institute Dedication – "Re-directing Traffic: A New Way to Restore the Corneal Epithelium"
6. November 2012: Brown Cancer Center, Molecular Targets Seminar Series – "Spatial Regulation of EGFR Signaling"
7. February 2013: Department of Ophthalmology and Vision Sciences, University of Louisville – "Promoting Corneal Epithelial Homeostasis by Modulating Epidermal Growth Factor Receptor Activity".
8. May 2014: Department of Anatomical Sciences, University of Louisville – "Diverting Receptor Trafficking to Promote Corneal Epithelial Wound Healing".
9. Nov 2014: Department of Pharmacology and Toxicology "Teaching an Old Dog New Tricks: New ways to Modulate EGFR Signaling".
10. Dec 2014: Department of Ophthalmology and Vision Sciences, University of Louisville – "Teaching an Old Dog New Tricks: Modulating EGFR activity to Enhance Corneal Epithelial Wound Healing".
11. July 2016: Department of Pharmacology and Toxicology, University of Louisville - "Traveling through Time and Space to Regulate EGFR Signaling"
12. January 2017: Department of Biology, University of Louisville - "Biology "(Off)-Targeting the EGFR to Promote Wound Healing"
13. September 2017: Brown Cancer Center Colloquium "The Eyes Have it! Using Ocular Models to Study EGFR Function and Signaling"
14. September 2018: University of Louisville Vision Retreat "Designing novel therapeutics to promote corneal Epithelial Wound Healing".
15. May 2019: James Brown Cancer Center "Spatial Regulation of EGFR Signaling".
16. January 2022: Department of Ophthalmology and Vision Sciences, University of Louisville

**POSTERS** (National/International Meetings)

1. March 2001: American Association for Cancer Research, **Ceresa, B. P.** and Schmid, S. L., Expression of rab5(Q79L) Enlarged Endosomes Does Not Alter Epidermal Growth Factor Receptor Endocytic Trafficking (Poster).
2. June 2002: FASEB Summer Research Conference: Receptors and Signal Transduction Dinneen, J.L. and Ceresa, B.P., Dominant negative rab5(S34N) inhibits EGFR endocytic trafficking to the early endosome. (Poster).
3. September 2002: DOD Era of Hope, Dinneen, J.L. and **Ceresa, B.P**., Dominant negative rab5(S34N) inhibits EGFR endocytic trafficking to the early endosome. (Poster)
4. August 2003: American Association for Cancer Research, Dinneen, J.L. and **Ceresa, B.P**., Expression of dominant negative rab7(N125I) slows EGFR endocytic trafficking and enhances EGFR–mediated cell proliferation. (Poster)
5. August 2003: FASEB Summer Research Conference: Growth Factors, Dinneen, J.L. and **Ceresa, B.P.**, Rab5 Regulation of EGFR Expression and Signal Transduction, (Poster).
6. October 2003: ACS Jiler American Cancer Society Professors Meeting, Dinneen, J.L. and **Ceresa, B.P**., Rab5 Regulation of EGFR Expression and Signal Transduction (Poster).
7. June 2005: DOD Era of Hope, **Ceresa, B. P.** Rab7 activity regulates EGFR trafficking. (Poster)
8. July 2005: FASEB Summer Research Conference: Receptors and Signal Transduction **Ceresa, B.P.,** Regulation of EGFR Endocytic Trafficking by rab7, (Poster).
9. December 2005: American Society of Cell Biology, **Ceresa, B.P**., Rab7 Regulation of EGFR Endocytic Trafficking. (Poster).
10. July 2006: Gordon Research Conference: Growth Factor Receptors, Hyatt, D. and **Ceresa, B.P.** Cell Surface and Intracellular EGFRs Differentially Activate DNA Synthesis and Apoptotic Pathways (Poster)
11. July 2006: FASEB Summer Research Conference: Small GTPases, Vanlandingham, P. and **Ceresa, B.P.** Constitutive Knockdown of rab7 slows EGFR Trafficking, Enhances EGFR Expression, and Increases EGF-Dependent Cell Growth (Poster).

12. Dec 2006: American Society of Cell Biology, **Ceresa, B.P.** and Hyatt, D. Spatial Localization of EGFRs Dictates Activation of Growth versus Apoptotic Pathways (Poster).
13. August 2007: FASEB Summer Research Conference: Tyrosine Kinase Receptors Vanlandingham, P. and **Ceresa, B.P.** Knockdown of rab7 causes endosomal accumulation of activated EGFRs (Poster)
14. July 2007: Cell-Cell Fusion Gordon Conference, Hu, L. and **Ceresa, B.P.** Human Papillomavirus 16 E5 induces polyploidy by cell fusion * This abstract was selected for oral presentation.
15. Dec 2007: American Society of Cell Biology, Vanlandingham, P. and **Ceresa, B.P.** Knockdown of rab7 causes endosomal accumulation of Activated EGFRs (Poster).
16. Dec 2007: American Society of Cell Biology, Hu, L. and **Ceresa, B.P.** Human Papillomavirus 16 E5 induces polyploidy by cell fusion (Poster).
17. June 2008: DoD Era of Hope Meeting, Hyatt, D. and **Ceresa, B.P.** Cellular Localization of the Activated EGFR Determines Its Effect on Cell Growth (Poster).
18. July 2008: FASEB Summer Research Conference: Small GTPases, Vanlandingham, P. and **Ceresa, B.P.** Rab7 Regulates Late Endocytic Trafficking Downstream of MVB Biogenesis and Cargo Sequestration (Poster).
19. Dec 2008: American Society of Cell Biology, Hu, L., Angeletti, P.C., and **Ceresa, B.P.** Human Papillomavirus16 E5 Initiates Cell Transformation Through Cell-Cell Fusion (Poster).
20. May 2009: Association for Research in Vision and Ophthalmology, **B.P. Ceresa** and J.L. McClintock**.** TGF-alpha Enhances Corneal Epithelial Cell Migration through Slowed Degradation of the Activated EGFR (Poster)
21. March 2010: Biology and Pathobiology of the Cornea Gordon Research Conference, **B.P. Ceresa** and J.L. McClintock. The Endocytic Pathway Regulates the Extent of EGFR-mediated Corneal Epithelial Cell Migration (Poster)
22. May 2010: Association for Research in Vision and Ophthalmology, **B.P. Ceresa,** D.U. Stone**,** and J.L. McClintock. Choice of Ligand Forecasts the Spatial and Temporal Regulation the Epidermal Growth Factor Receptor in Corneal Epithelial Cells (Oral presentation).
23. May 2010: 1st Annual Papillomavirus E5 Workshop, Hu, L., Angeletti, P.C., and **Ceresa, B.P.** Human Papillmovavirus 16 E5 Inititiates Cell Transformation through Cell-Cell Fusion (Oral Presentation).
24. May 2011: Association for Research in Vision and Ophthalmology, Peterson, J.L., and **Ceresa, B.P.,** Betacellulin as a Potential Therapeutic Agent in Corneal Epithelial Wound Healing (Poster).
25. May 2011: Association for Research in Vision and Ophthalmology, **Ceresa, B.P.,** McClintock, J.M., Phelps, E.D., Rush, J., Termination of Epidermal Growth Factor Receptor Signaling in Corneal Epithelial Cells is Regulated by Receptor Sequestration (Poster).
26. December 2011: American Society for Cell Biology, **Ceresa, B.P.,** Phelps, E.D., Rush, J., Spatial Regulation of EGFR signaling (Poster)
27. April 2012: Federation of the American Society of Experimental Biology, Peterson, J.L., Phelps, E.D., **Ceresa, B.P.** The Molecular Mechanism behind Betacellulin Induced Corneal Epithelial Wound Healing (Poster)
28. May 2012: Association for Research in Vision and Ophthalmology, **Ceresa, B.P.,** Peterson J.L., Phelps, E.D., Betacellulin-Mediated Corneal Epithelial Cell Migration (Poster).
29. May 2013: Association for Research in Vision and Ophthalmology, **Ceresa, B.P.,** Peterson J.L., Pharmacological Analysis of Epidermal Growth Factor Receptor Ligands on Corneal Epithelial Cells (Poster)
30. September 2013: 75th Harden Conference - Receptor Tyrosine Kinase Structure and Function in Mammalian Health and Disease Peterson, J.L. and **Ceresa, B.P**. Analysis of EGFR ligands found in human tears reveals differences in corneal epithelial wound healing and ligand induced EGFR signaling (Oral Presentation)
31. December 2013: American Society for Cell Biology, Parks, E.E. and **Ceresa, B.P**., EGFR Signaling from the Plasma Membrane (Poster).
32. December 2013: American Society for Cell Biology, Rush, J.S. and **Ceresa, B.P**., c-Cbl as a therapeutic target for Enhanced Human Corneal Epithelial Wound Healing (Poster)
33. December 2013: American Society for Cell Biology, Peterson, J.L. and **Ceresa, B.P**., Analysis of EGFR ligand found in human tears reveals differences in corneal epithelial wound healing and ligand induced EGFR signaling (Poster).
34. June 2014: Gordon Research Conference: Lysosomes & Endocytosis, Bankston, A. and **Ceresa, B.P**. Regulation of EGFR tyrosine phosphorylation by the endocytic pathway (Poster)

35. July 2014: FASEB Summer Research Conference: Protein Kinases, Cellular Plasticity and Signal Rewiring. **Ceresa, B.P.** and Parks, E.E. Cell Surface Epidermal Growth Factor Receptors Increase Src and c-Cbl Activity and Receptor Ubiquitylation (Poster)
36. Dec 2014: American Society for Cell Biology, Wiechmann A.F.**, Ceresa B.P.**, and Howard E.W. Diurnal variations in matrix metalloproteinase expression and tight junction integrity in *Xenopus laevis* corneal epithelium (Poster)
37. Jun 2015: 7th International Conference on cGMP, Trier, Germany, Jackson, N. and Ceresa, B. Cyclic GMP Dependent Protein Kinase (PKG) as a mediator of EGFR-Induced Apoptosis in Breast Cancer.
38. Dec 2015: American Society of Cell Biology, San Diego, CA: Gosney, J. and Ceresa, B.P. A non-invasive strategy for enriching early endosomes to examine EGFR signaling.
39. Dec 2015: American Society of Cell Biology, San Diego, CA: Jackson, N. and Ceresa, B. Cyclic GMP Dependent Protein Kinase (PKG) as a mediator of EGFR-Induced Apoptosis in Breast Cancer
40. Dec 2015: American Society of Cell Biology, San Diego, CA: Rush, J.S., Griffey, H., and Ceresa, B.P., ErbB3 as a regulator of EGFR signaling.
41. May 2017: Association for Research in Vision and Ophthalmology, Baltimore, MD, **Ceresa, B.P.,** Trent, J.O., The Biochemical Characterization of c-Cbl Antagonists
42. Dec 2017: American Society of Cell Biology/EMBO, Philadelphia, PA: Gosney, J.A., Wilkie, D, Merchant, M.A., Ceresa, B.P., Proteomics reveals novel protein associations with early endosomes in an EGF-dependent manner.
43. May 2018: American Society of Pharmacology and Experimental Therapeutics. **Ceresa, B.P.,** Trent, J.O., The Development of c-Cbl Antagonists to Promote Corneal Epithelial Wound Healing.
44. Oct 2018: 10th Heavy Metals and Carcinogenesis, Albuquerque, NM: Kim, C. and **Ceresa, B.P.**, Assessing the Role of Arsenite in Disrupting the EGFR Signaling Axis
45. March 2019: Society of Toxicology, Baltimore, MD: C. Kim and **B. Ceresa**, Assessing the role of chronic arsenic in disrupting the EGFR signaling axis.
46. March 2020: Society of Toxicology, Anaheim, CA: C. Kim and **B. Ceresa**, Assessing the role of chronic arsenic in disrupting the EGFR-signaling axis. (Note: meeting canceled due to COVID19 pandemic)
47. May 2020: Association for Research in Vision and Ophthalmology, Baltimore, MD: **Ceresa, B.P.** and Ahmed, O., Knockdown of c-Cbl Enhances EGFR-mediated Cell Migration by Diverting the Active Receptor from the Lysosome. (Note: meeting canceled due to COVID19 pandemic)
48. May 2020: Association for Research in Vision and Ophthalmology, Baltimore, MD: Baratta, R.O., Ousler, G.W., Del Buono, B, Calkins, D.J., **Ceresa, B.P.,** Collagen Mimetic Peptides (CMPs) as a bioengineering tool to repair damaged collagen substrates and basement membranes and facilitate corneal epithelial growth. (Note: meeting canceled due to COVID19 pandemic)
49. May 2021: American Society of Cataract and Refractive Surgery, Las Vegas, NV; Baratta, R.O., Schlumpf, E., Del Buono, B, **Ceresa, B.P.,** Calkins, D.J., A Novel Potential Therapeutic for Ocular Surface and Corneal Stromal Disease

**PUBLICATIONS –**

**PEER-REVIEWED**

**Original Research** (* indicates mentored graduate student; ** indicates mentored post-doctoral fellow)

1. **Ceresa, B.P.** and Limbird, L.E. (1994) Mutation of an Aspartate Residue Highly Conserved among G-protein-coupled Receptors Results in Nonreciporcal disruption of $\alpha_{2A}$-Adrenergic Receptor-G-protein Interactions. *J. Biol. Chem.* 269 p. 29557-29564.
2. **Ceresa B. P.** and Pessin , J.E. (1996) Insulin Stimulates the Serine Phosphorylation of the Signal Transducer and Activator of Transcription (STAT3) Isoform *J. Biol. Chem.* 272 p.12121-12124.

3. **Ceresa, B.P.,** Horvath, C.M., and Pessin, J.E. (1997) STAT3 Serine Phosphorylation by Insulin is Mediated by a Ras/Raf/MEK – dependent Pathway. *Endocrinology* 138 p.4131-4137.
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5. **Ceresa, B. P.** and Pessin, J.E. (1997) Insulin Regulation of the Ras Activation/Inactivation Cycle (review) *Mol. Cell Biochem*. 182 (1-2) p.23-29.
6. **Ceresa, B.P**., Kao, A.W., Santeler, S.R., and Pessin J.E. (1998) Regulation of Insulin Receptor Signaling Pathways by Clathrin Mediated Endocytosis. *Mol. Cell Biol.* 18(7) p. 3862.
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11. **Ceresa, B. P**., Lotscher, M., and Schmid, S.L., (2001) Receptor and Membrane Recycling Occur with Unaltered Kinetics Despite Dramatic rab5(Q79L)-induced Changes in Endosome Geometry, *J. Biol. Chem.*, 276 (13) p. 9649-9654.
12. Baldeon, M. E. , **Ceresa, B. P.,** and Cassanova, J. E., (2001) Expression of constituitively Active rab5 uncouples Maturation of the Salmonella-containing Vacuole from Intracellular Replication, *Cell. Microbiology* , 3(7) 473-486.
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16. **Ceresa, B.P.** and Bahr, S. J. (2006) Rab7 Activity Affects EGF:EGFR Degradation by Regulating Endocytic trafficking from the Late Endosome *J. Biol. Chem*. 281(2):1099-106.
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27. Peterson, J.L*., Phelps, E.D., Doll, M.A., Schaal, S., and **Ceresa, B.P.,** (2014) The Role of Endogenous Epidermal Growth Factor Receptor (EGFR) Ligands in Mediating Corneal Epithelial Homeostasis *IOVS* 55(5):2870-80. PMCID: PMC4008048
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38. Connor, M.G., Pulsifer A.R., Chung D., Rouchka E.C., **Ceresa B**, Lawrenz M.B. (2018) *Yersinia pestis* Targets the Host Endosome Recycling Pathway during the Biogenesis of the *Yersinia*-Containing Vacuole To Avoid Killing by Macrophages. M Bio. 9 (1). pii. PMCID:PMC5821078.
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44. Baratta, R.O., del Buono, B., Schlumpf, E., **Ceresa, B.P.,** Calkins, D.J., (2021) Collagen Mimetic Peptides Promote Corneal Epithelial Cell Regeneration, *Frontiers in Pharmacology*, Aug 16;12:705623. PMCID: PMC8415399
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**Review Articles**

1. **Ceresa, B. P.** and Pessin, J.E. (1997) Insulin Regulation of the Ras Activation/Inactivation Cycle (review) *Mol. Cell Biochem*. 182 (1-2) p.23-29.
2. **Ceresa, B.P**., and Schmid, S.L. (2000) Regulation of Signal Transduction by Endocytosis (review) *Curr. Opin. Cell Biol*. 12 p.204.
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**Books, book chapters, monographs**

1. **Ceresa, B.P.** (2011) Endocytic Trafficking of the EGFR in Transformed cells (book chapter) *Breast Cancer Cells / Book 1*, ISBN 978-953-307-351-4.
2. *Molecular Regulation of Endocytosis* (2012), InTech Publishing, **Brian P. Ceresa**, (editor),ISBN 978-953-51-0662-3.
3. **Ceresa, B.P.** (2015) Determining the Role of RAB7 in Constitutive and Ligand-mediated Epidermal Growth Factor Receptor Endocytic Trafficking Using Single Cell Assays Rab GTPase *Methods in Molecular Biology*;1298:305-17.
4. **Ceresa, B.P.,** Gosney, J.A.*, Jackson, N.M.*, and Rush, J.S. *EGFR:Epidermal Growth Factor Receptor* (2017) Encyclopedia of Signaling Molecules, 2nd Edition, Sangdun Choi Editor.
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