

## Curriculum Vitae

**Gioia Polidori Ph.D.** (Gioia Petrighi Polidori)

Associate Professor (Teaching), Department of Biological Sciences Human & Evolutionary Biology  
Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California

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<http://dornsife.usc.edu/gioia-polidori>

last updated October 2021

### EDUCATION

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<b>September 2012 Ph.D.</b>	Cell Biology. University of Aberdeen, Aberdeen (UK)
<b>November 2008 M.S.</b>	Medical Molecular Genetics. University of Aberdeen, Aberdeen (UK)
<b>March 2007 M.S.</b>	Clinical Nutrition and Dietetics. Università Cattolica del Sacro Cuore, Rome (Italy)
<b>May 2005 B.S. &amp; M.S.</b>	Molecular Biology. University Roma Tre, Rome (Italy)

### PROFESSIONAL EXPERIENCE

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<b>2021- Associate Professor (Teaching)</b>	University of Southern California, Los Angeles (CA)
<b>2018-2021 Assistant Professor (teaching)</b>	University of Southern California, Los Angeles (CA)
<b>2015-2018 Lecturer</b>	University of Southern California, Los Angeles (CA)
<b>2014-2015 Adjunct Faculty</b>	Pasadena City College, Pasadena (CA)
<b>2012-2014 Postdoctoral Scholar</b>	University of California at Los Angeles, Los Angeles (CA)
<b>2008-2012 Teaching Assistant</b>	University of Aberdeen, Aberdeen (UK)
<b>2006-2007 Nutrition Intern</b>	University Hospital Agostino Gemelli, Rome (Italy)

### TEACHING

#### TEACHING EXPERIENCE

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*Lecturer/Assistant Professor/Associate Professor, University of Southern California, Los Angeles (CA)*

#### Graduate Teaching

**NURS 500:** Bridge Course (Online teaching, 2 units/section) Fa 2016 (2 Sections), Su 2017 (1 section), Fa 2017 (4 sections), Sp 2018 (2 sections)

#### Undergraduate Teaching

**HBIO 409:** Metabolic Diseases (Lecture, 4 units). Fa 2015, Fa 2016, Sp 2017, Fa 2017

**HBIO 407L:** Endocrinology and Metabolism (Lecture, 4 units, 50%). Sp 2019, Sp 2020

**HBIO 405:** Evolutionary Medicine (Lecture, 4 units, 50%). Fa 2016, Fa 2017

**HBIO 405:** Evolutionary Medicine (Lecture, 4 units). Fa 2018, Fa 2019

**HBIO 401L:** Physiology of Movement (Lecture, 4 units 50%). Sp 2015, Sp 2016, Sp 2017, Sp 2018, Sp2020

**HBIO 400L:** Motor Learning and Control (Lecture, 4 units). Fa 2015, Sp 2017, Sp 2018, Sp 2019

**HBIO 370:** Genetics & Disease (Lecture and Discussion, 4+2 units). Sp 2018, Sp 2019, Sp 2020

**HBIO 360:** Nutrition & Disease (Lecture and Discussions, 4+2 units). Sp 2016, Sp 2017, Sp 2018, Sp 2019

**HBIO 350:** Nutrition & Homeostasis (Lecture and Discussions, 4 units). Sp 2015, Sp 2016, Sp 2017

**HBIO 301 L:** Human Anatomy (Lecture and Laboratory, 4 units). Su 2017

**HBIO 203 L:** Exercise Prescription (Lecture and Laboratory, 2 units). Sp 2015, Fa 2015, Sp 2016

**HBIO 202gL:** Nutrition and You (Lecture, 4 units). Fa 2018, Fa 2019

*Adjunct Instructor, Pasadena City College, Pasadena (CA)*

#### Undergraduate Teaching

**Biology 011:** (Online/traditional hybrid course, lecture). Fa 2014

**Biology 011:** (laboratory). Fa 2014

**Nutrition 011:** (online course). Fa 2014

## **SIGNIFICANT CURRICULAR INNOVATIONS AND ADDITIONS**

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### **2020 HBIO Minor in Human Disease**

- Developed a new Minor for students interested in pre-health, it will be available as of Fall 2020

### **2020 HBIO Minor in Biology of Human Movement**

- Revamped the old HBIO minor into a new Minor, it will be available as of Fall 2020

### **2019 HBIO 360: Nutrition and Disease**

- Developing laboratory activities to incorporate anatomage tables into case studies

### **2017 HBIO 370: Genetics & Disease** (Approved by the UCC Fall 2017. Offered Spring 2018)

- Course created from inception
- Developed problem-based learning activities and debates

### **2016 HBIO 360: Nutrition & Disease** (Approved by the UCC Spring 2016. Offered Fall 2016)

- Course created from inception
- Developed case studies, capstone project and problem-based learning activities

### **2016 HBIO 405: Evolutionary medicine**

- Developed the course with Dr. Bogart as a co-instructor
- Developed a student-driven capstone project

### **2016 HBIO 203: Exercise Prescription**

- Developed a Laboratory Activity focused on agility testing

### **2016 HBIO 400L: Motor Learning and Control**

- Developed a student-driven capstone project in which students articulate an original research question using class results as preliminary data

### **2015 HBIO 350: Nutrition and Homeostasis**

- Redeveloped the course
- Developed student-driven discussions and debates

### **2015 Podcast: used in HBIO 409, HBIO 400, HBIO 405, HBIO 360, HBIO 350, HBIO 301**

- Developed and produced a podcast to demonstrate how to perform a thorough literature search with Pubmed and Ovid medline (with and without conjunctions) and how to create a reference list using RefWorks

### **2015 HBIO 409: Metabolic Diseases**

Course redeveloped with classroom learning activities and a capstone student-driven project

## **PEDAGOGY & MENTORING-RELATED TALKS**

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**2020** “An efficient peer mentoring program to promote professional competency”, AAC&U, Jacksonville (FL)

**2020** “How to edit a video lecture using iMovie”, WISE online Teaching Symposium.

**2019** “Dinner with Dr. Polidori” Interhealth Council, USC, Los Angeles, (CA)

**2018** “Promoting Global Learning in Science and Engineering” USC, Los Angeles (CA)

**2018** “Academic Teaching and Research Prospects” SC Health Immersion, USC, Los Angeles (CA)

**2015** “Use of Classroom Interactive Learning: Is technology conducive to an Engaging Learning Environment? Functionality of Blackboard and Top Hat” USC, Los Angeles (CA)

## **INVITED LECTURES**

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**2020:** “The role of genetics in mental health” Roehampton University, London (UK) –Canceled due to COVID

**2019:** “Atherosclerosis” for GERO 416 (Spring). USC, Los Angeles (CA)

**2018:** “Cardiovascular Disease” for BISC 150Lxg (Fall). USC, Los Angeles (CA)

## Gioia Polidori, Ph.D.

- 2018:** “Cardiovascular Disease” for BISC 150Lxg (Spring). USC, Los Angeles (CA)  
**2017** “Cardiovascular Disease” for BISC 150Lxg (Fall). USC, Los Angeles (CA)  
**2017** “Cardiovascular Disease” for BISC 150Lxg (Spring). USC, Los Angeles (CA)  
**2016** “Adipokines and Metabolic Dysfunction” for BISC 450 USC, Los Angeles (CA)  
**2015** “The Amazing Biological Machine” Invited by Interaxon. Lecture to underserved secondary school students to promote STEM disciplines. USC, Los Angeles (CA)

### SERVICE

#### **SIGNIFICANT EXTRACURRICULAR INNOVATIONS AND ADDITIONS**

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Founded the Human Biology Student Association (HBA). Advising and mentoring the organization and contributing to the development of campus activities, seminars and workshops

#### **SEMINARS ORGANIZED**

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- 2020** “WiSE workshop on ASKAri” organized with the Campus Wellbeing and Education (Spring)  
**2019** “WiSE workshop series for Teaching Faculty” organized with the HBA (Fall)  
**2019** “Interactive Workshop: Breast and Ovarian Cancer” organized with the HBA and Biology Club in collaboration with the Rivkin Center (Fall)  
**2019** “CV workshop” organized with the HBA (Fall)  
**2019** “Creating a successful Med School Application” organized with the HBA (Spring)  
**2018** “What to do with an HBIO degree” organized with the HBA (Fall)  
**2018** “WiSE Teaching Symposium: Professional Development and Teaching Innovations” (Fall)  
**2018** “Inside the Med School Application” organized with the HBA (Spring)  
**2017** “What to do with an HBIO degree” organized with the HBA (Fall)  
**2017** “How to write an undergraduate CV for Medical School” organized with the HBA (Fall)  
**2017** “What to do with an HBIO degree” organized with the HBA (Spring)  
**2017** “How to write an undergraduate CV” organized with the HBA (Spring)  
**2016** “What to do during a gap year?” organized with the HBA (Fall)  
**2016** “Fitness For Finals” organized with the HBA (Spring)  
**2016** “What can you do with an HBIO degree?” organized with the HBA (Spring)  
**2015** “Use of Classroom Interactive Learning: Is technology conducive to an Engaging Learning Environment? Functionality of Blackboard and Top Hat” (Spring)

#### **SERVICE TO THE UNIVERSITY AND THE DORNSIFE COLLEGE OF LETTERS, ARTS & SCIENCES**

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**2020-2021 President of the Dornsife Faculty Council**

**2019-2020 Vice President of the Dornsife Faculty Council**

**2019-present Judge for the American Physiological Society Award at the Undergraduate Symposium**

**2019-present Director of Undergraduate Studies**

- Drafted the Human Biology self-study, approved course equivalency, substitutions, developed an evaluation/mentoring strategy, oversee track/course changes, strategic planning, etc...

**2018-2020 Co-Chair, RTPC Teaching and Practice Caucus of the Faculty Council**

- Organized and led meetings, drafted reports
- Organized panels on promotion guidelines to foster a mentoring culture

**2017-2018 Senator, USC Faculty Senate**

- Represented Dornsife at the University Senate

**Fall 2018-Spring 2019 Volunteered for the Dornsife Signature Undergraduate Experience**

Gioia Polidori, Ph.D.

- Attended meetings on the development of the Dornsife Signature Undergraduate Experience
- 2016-2019 Member**, Dornsife Trustee Scholarship Selection Committee
- Interviewed candidates
- 2016-2019 Member**, Dornsife Presidential Scholarship Selection Committee
- Interviewed candidates
- 2017-2018 Co-Chair**, Dornsife Research, Policies and Documentation Caucus of the Faculty Council
- Organized and led meetings, drafted reports
- 2016-2018 Member**, Dornsife Faculty Council
- Representing Dornsife Faculty and contributed to the development of resolutions
- 2016-2017 Member**, Dornsife Research, Policies and Documentation Caucus of the Faculty Council
- Organized meetings and drafted reports
- 2015-2016 Marshal**, Commencement, Biological Sciences
- Organized students' procession and represented the faculty

**SERVICE TO THE DEPARTMENT OF HUMAN & EVOLUTIONARY BIOLOGY**

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**2015- present Human Biology Association, Faculty Advisor**

- Supervised organization functioning
- 2016-2018 Member**, Human & Evolutionary Biology Undergraduate Curriculum Committee
- Discussed and addressed laboratory-related issues
- 2015-present Member**, Human & Evolutionary Biology Undergraduate Laboratory Committee
- Contributed to reorganizing and revamping HBIO tracks
- 2017-present Reader**, Commencement, Human Biology
- Read HBIO graduates' names at graduation
- 2016-2017 Member**, Human & Evolutionary Biology RTPC search committee
- Interviewed candidates and contributed to the discussion and ranking of the candidates

**SUPERVISION, TRAINING AND MENTORING**

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**a) General Mentoring:**

**2015-present** Wrote ~15 recommendation letters/semester to support Students' professional development and nominated students for the SCynergy, Milo Don Appleman, Renaissance Scholar and Order of the Torch Award, Latino Association Scholarship.

**b) Laboratory Training:** Human Embryonic and induced Pluripotent Stem cell culture, RT/qPCR, Flow Cytometry, Western Blot, Immunocytochemistry.

**2012-2014** University of California at Los Angeles: *PhD candidates* (1-2 per year): Aimee Flores, Rhys Skelton, Elliot Swartz

**2008-2012** University of Aberdeen: *Ph.D. candidates*: Silvia Mazzotta, Maria Joao Lima, Konrad Juczewski

**2008-2012** University of Aberdeen: *MS candidates*: Amina Mehanna, Zuzana Hruskova, Sarah Consonni, Vagelis Polakis, Ben Arnold

**PROFESSIONAL**

**MEMBERSHIPS**

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**EB**, Experimental Biology

**ASN**, American Society for Nutrition

**AACU**, Association for American Colleges and Universities

**ACSM**, American College of Sports Medicine

Last updated: October 2021

AHA, American Heart Association  
SOB, Society of Biology  
SSCN, Scottish Stem Cell Network  
ISSCR, International Society for Stem Cell Research

## PROFESSIONAL MEETINGS

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### Oral presentations

- 2012** “Palmitate promotes differentiation of embryonic stem cells towards specific adipocyte lineages”. **Gioia Petri ghi Polidori**. Aberdeen Flow Cytometry Stem Cell Meeting. Aberdeen (UK)
- 2011** “Fatty acids interact with sex steroid modifying mechanisms to determine white adipocyte lineages”. **Gioia Petri ghi Polidori** and Kevin Docherty. International Consortium of Stem Cell Networks (ICSCN), Toronto (Canada)
- 2010** “Palmitate promotes differentiation of embryonic stem cells towards specific adipocyte lineages”. **Gioia Petri ghi Polidori** and Kevin Docherty. CRF Conference Diabetes and Obesity: getting to the heart of the matter. Edinburgh (UK)
- 2009** “Modelling the effects of nutrients and sex steroids on preadipocyte formation using mouse embryonic stem cells”. **Gioia Petri ghi Polidori**. Aberdeen Centre for Energy Regulation and Obesity, Aberdeen (UK)

### Poster Presentation

- 2012** Wnt signaling orchestrates first and second heart field differentiation from hESC-derived lateral plate mesoderm. **Gioia Petri ghi Polidori**, Natalie Gibb, Andreia Bernardo, Kevin Docherty and Stefan Hoppler. International Society for Stem Cell Research (ISSCR), Yokohama (Japan)
- 2011** Fatty Acids interact with sex steroid modifying mechanisms to determine white adipocyte lineages. **Gioia Petri ghi Polidori** and Kevin Docherty. International Society for Stem Cell Research (ISSCR), Toronto (Canada)
- 2010** Palmitate promotes differentiation of embryonic stem cells towards specific adipocyte lineages. **Gioia Petri ghi Polidori** and Kevin Docherty. Caledonian Research Foundation (CRF), Diabetes and Obesity: getting to the heart of the matter. Edinburgh (UK)
- 2009** Role of Retinoic Acid in the Differentiation of mouse embryonic stem cells towards adipocytes. **Gioia Petri ghi Polidori** and Kevin Docherty. Caledonian Research Foundation (CRF), Stem cells as therapy. where we have been; where we are and where we are going (and how fast?). Dundee (UK)
- 2008** The role of the proteasome pathway and chemotherapy drug resistance in breast cancer. **Gioia Petri ghi Polidori**, Iain Brown Lena Kastl and Andrew C. Schofield. Scottish Society of Experimental Medicine. Edinburgh (UK)

### Attendance

- 2019** Experimental Biology, Orlando (FL)
- 2018** American Association of Colleges and Universities, Global Engagement and Spaces of Practice, Seattle (WA)
- 2018** American Society for Nutrition, annual meeting. Boston (MA)
- 2017** American Association of Colleges and Universities, Transforming STEM higher education: Discovery, Innovation and the value of Evidence. San Francisco (CA)
- 2017** Center for Excellence in Teaching (CET) Teaching with Technology Conference. Los Angeles (CA)
- 2016** Textbook and Academic Author Association (TAAS) Symposium. San Antonio (TX)
- 2015**. 18<sup>TH</sup> Annual Cal State University Symposium on University Teaching. Los Angeles (CA)
- 2015** American College of Sports Medicine (ACSM) Southwest Chapter. Colloquia on Fitness for Finals. Costa Mesa (CA)
- 2015** American College of Sports Medicine (ACSM) National Meeting. San Diego (CA)
- 2012** American Heart Association (AHA) Basic Cardiovascular Science meeting. Los Angeles (CA)

## GRANTS AND AWARDS

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- 2019** Women in Science and Engineering (WiSE) Supplemental Faculty Support. (\$ 2,500)
- 2018** Women in Science and Engineering (WiSE) Supplemental Faculty Support. (\$ 2,500)
- 2017** Women in Science and Engineering (WiSE) Supplemental Faculty Support. (\$ 2,500)
- 2017** USC Undergraduate Student Government Professional Fund to sponsor HBA seminar. (Mentor). (\$ 300)
- 2017** USC Undergraduate Student Government Professional Fund to sponsor HBA seminar. (Mentor). (\$ 100)
- 2017** USC Undergraduate Student Government Professional Fund to sponsor HBA seminar. (Mentor). (\$ 300)
- 2016** USC Undergraduate Student Government Professional Fund to sponsor HBA seminar. (Mentor). (\$ 300)
- 2015** USC Undergraduate Student Government Discretionary Startup Fund. (Mentor). (\$ 300)
- 2013** UCLA Clinical and Translational Science Institute CORE funding to support RNASeq project. (\$ 10,000)
- 2012** Institute of Medical Sciences Funding to support Journal Club Expenses. (£ 500)
- 2012** Institute of Medical Sciences Travel Grant to attend International Society for Stem Cell Research meeting in Yokohama (Japan) (£ 600)
- 2011** International Society for Stem Cell Research (ISSCR). Travel Grant to attend ISSCR meeting in Toronto (Canada). (\$1,000)
- 2011** Scottish Stem Cell Network (SSCN). Travel fund to present at the International Society for Stem Cell Research in Toronto (Canada). (£ 800)
- 2007** University of Aberdeen Tuition Scholarship. (£ 4,000)

## RESEARCH EXPERIENCE

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**2012 - 2014: Postdoc**, University of California at Los Angeles, Los Angeles (CA)

- Developed a differentiation protocols to obtain cardiovascular progenitors and cardiomyocytes
- Developed a fluorescently labeled cardiac reporter (TBX5) hESC line using TALEN technology

**2008 - 2012: PhD candidate**, University of Aberdeen, Aberdeen (UK)

- Established a Human Embryonic Stem Cell Laboratory
- Developed novel differentiation protocols for the generation of different cell lineages from mESC

**2007 - 2008: M.S. Candidate**, University of Aberdeen, Aberdeen (UK)

- Elucidated the role of the proteasome pathway in regulating p27 protein expression in breast cancer drug resistance *in vitro* systems

**2003 - 2005: M.S. Candidate**, Università Roma Tre, Rome (Italy)

- Molecular engineering of single chain antibody in bacterial strains (*E. coli*, *A. tumefaciens*) and monocotyledon species (*T. durum*, *T. aestivum*)

## PUBLICATIONS

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- **Invited Book Co-Author:** Pathophysiology in Human Metabolism. (half completed)
- **Invited Book Chapter:** Chemical and Biochemical Foundations in Advanced Physiology and Pathophysiology: Essentials for Clinical Practice. Springer Publishing Company. *Lead Editor:* Nancy Tkacs, RN, PhD.
- **Gioia Pettrighi Polidori**, Michael A. Lomax and Kevin Docherty. Palmitate enhances the differentiation of mouse embryonic stem cells towards white adipocyte lineages. *Moll Cell Endocrinol* 26(361) 40-50, 2012.
- Brown I, Arnold B, **Petrighi Polidori G**, Schofield A. and Hayes S. Role of the poteasome in regulating p27 in docetaxel-resistant breast cancer cells. *Eur J Surg Oncol* 36 (11), 1108, 2009.

**MEDIA COVERAGE**

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**2015** USScience Review: interviewed by Codi Miller to discuss the role of subcutaneous fat and the consequences of liposuction

**2011** SSCN Newsletter, issue 19: ICSCN at ISSCR

**2009** SSCN Newsletter, issue 14: One to watch: our inspiring young talent: Gioia Petrihi Polidori