

**Advanced Molecular Biology for Global Health**  
**SUMMER Adventure!**

**University of Washington GH101:** Students enrolled in Advanced Molecular Biology for Global Health will have the chance to earn UW College in the High School credit. You will earn credit for *Introduction to Global Health 101: Disparities, Determinants, Policies & Outcomes*. Registration information (course fee: \$370) will be provided once class starts next fall. This is a great opportunity, and everyone will follow the curriculum even if not registered for the UW credit. With this in mind, we are moving at bit of a different pace and there are a few things that you need to do to be prepared for this class (credit or not).

**Parts 1-4** are due on the first day of school (like I am going to check it on the first day) and there are point values for each part. Please come prepared! Please read through this handout and let me know if you have any questions or concerns! I am looking forward to a great year! Have a wonderful summer!

Mrs. Caraballo

**Part 1:** Shopping list: **DUE ON THE FIRST DAY OF SCHOOL**

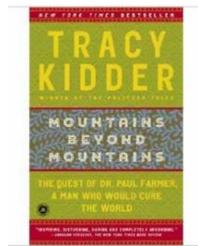
- 1 composition lab book (brand new)
- 1 3-ring binder (a large one 😊)

**Part 2:** Now you need to number the pages in your comp book ... the first page is #1 and the backside of it is #2 – now keep going ... number the pages ALL the way through! Number **ALL** of the pages in the **UPPER RIGHT HAND CORNER** and have it **DONE** by the time you walk into my classroom on the first day!

**Part 3:** send me an email: [tami.caraballo@sno.wednet.edu](mailto:tami.caraballo@sno.wednet.edu) (you can also find my email address on the staff directory on Glacier Peak’s website: [www.glacierpeak.sno.wednet.edu](http://www.glacierpeak.sno.wednet.edu) )

Please put “**SUMMER ADVENTURE**” in the subject of the email. To complete this adventure-you will need to **read** the following book:

*Mountains Beyond Mountains: The Quest of Dr. Paul Farmer, A Man Who Would Cure the World* by Tracy Kidder. This book can be purchased on Amazon, any bookstore, or checked out from your local library.



**Book Summary:** This book tells the true story of one man’s commitment to bring quality health care to the world’s poorest communities. Author Tracy Kidder guides the reader through many physical and philosophical journeys with Dr. Farmer, eloquently articulating Farmer’s mission of correcting the inequities and epidemics that plague the poorest people. These journeys with Dr. Farmer constitute an adventure story focused on critical moral issues. *Mountains Beyond Mountains* raises several profound questions about issues of access to health care and the global distribution of wealth, allowing a glimpse into Dr. Farmer’s work to change the world. Reading this fascinating and inspiring book and it should challenge you to reflect on your own goals and personal philosophies.

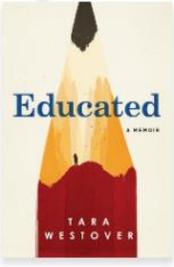
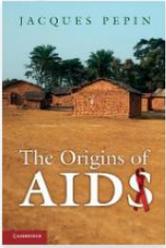
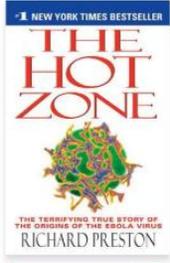
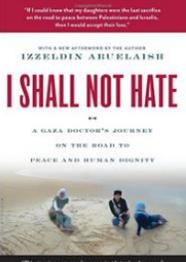
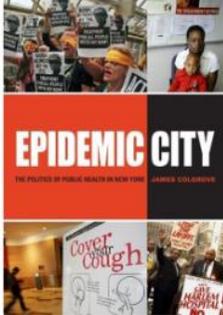
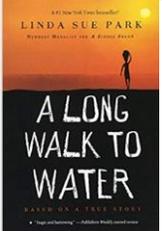


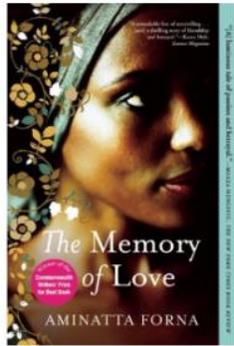
**As you are reading the story of Dr. Farmer, address the following questions in a word document. Be sure your name is in the header and attach with your email.**

1. The title of the book, *Mountains Beyond Mountains*, is taken from a Haitian proverb that translates as “beyond mountains there are mountains.” Why did Kidder use this as the title? What does it mean in terms of Paul Farmer’s work?
2. In Chapter 22, Kidder notes that Paul Farmer’s “days and nights looked hard and, in some ways, lonesome.” Farmer is very dedicated to his work and has been very successful but in order to do his work, he has also made many personal sacrifices. What sacrifices has Farmer made to pursue his goals? How have these sacrifices affected his relationship with Didi and Catherine, and with his friends? Would you be willing to make these types of sacrifices for the greater good?
3. Paul Farmer had a very unusual upbringing in Massachusetts, Alabama, and Florida. What specific elements from his childhood and family life prepared Farmer for his current life? How has your upbringing influenced your own choices and goals in life?
4. Farmer’s philosophy is at odds with standard notions of efficiency and cost effectiveness. His approach to public health care has drawn criticism because it is not perceived to be cost-effective. For instance, one critic commented that the \$20,000 spent on transporting a sick Haitian child to Boston for treatment could have been better spent on other things, like supplies or drugs for many other children (page 287). What is his response to these arguments? What factors do you think are most important in making such decisions about how money should be spent in public health programs?
5. Paul has trained as a medical anthropologist and as a doctor. Discuss the difference between these two careers. Is it possible to major in Medical Anthropology in the state of Washington? Where? Look at the courses required for this major. What 2-3 classes looing intriguing in this major?
6. Looking ahead at Part 4-include the name of the book you have chosen to read off of the attached list 😊 Be prepared to share in class!
7. **See the book list (part 4). Send the title of the book on this list that you are reading! We will have a “book club” in class to discuss so make notes with post-its as you read for parts that strike you in some way.**

**Part 4:** Choose a book off the attached reading list. Be prepared to share what you read and how it impacted what you think about global health with the class when you get to school

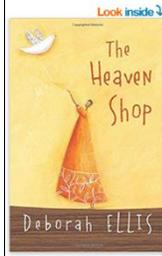
**Part 4: Advanced Molecular Biology for Global Health\_Summer Reading List**

 <p><i>Educated.</i> Born to survivalists in the mountains of Idaho, Tara Westover was seventeen the first time she set foot in a classroom. Her family was so isolated from mainstream society that there was no one to ensure the children received an education, and no one to intervene when one of Tara's older brothers became violent. When another brother got himself into college, Tara decided to try a new kind of life. Her quest for knowledge transformed her, taking her over oceans and across continents, to Harvard and to Cambridge University.</p>	 <p><i>The Origins of AIDS.</i> It is now thirty years since the discovery of AIDS but its origins continue to puzzle doctors and scientists. Inspired by his own experiences working as an infectious diseases physician in Africa, Jacques Pepin looks back to the early twentieth-century events in Africa that triggered the emergence of HIV/AIDS and traces its subsequent development into the most dramatic and destructive epidemic of modern times.</p>
 <p><i>The Hot Zone.</i> A highly infectious, deadly virus from the central African rain forest suddenly appears in the suburbs of Washington, D.C. There is no cure. In a few days 90 percent of its victims are dead. A secret military SWAT team of soldiers and scientists is mobilized to stop the outbreak of this exotic "hot" virus.</p>	 <p><i>I Shall Not Hate.</i> A Harvard-trained Palestinian doctor who was born and raised in the Jabalia refugee camp in the Gaza Strip and "who has devoted his life to medicine and reconciliation between Israelis and Palestinians" (New York Times), Abuelaish has been crossing the lines in the sand that divide Israelis and Palestinians for most of his life - as a physician who treats patients on both sides of the line, as a humanitarian who sees the need for improved health and education for women as the way forward in the Middle East.</p>
 <p><i>Epidemic City.</i> An insightful chronicle of the changing public health demands in New York City. The first permanent Board of Health in the United States was created in response to a cholera outbreak in New York City in 1866. By the mid-twentieth century, thanks to landmark achievements in vaccinations, medical data collection, and community health, the NYC Department of Health had become the nation's gold standard for public health.</p>	 <p><i>A Long Walk to Water</i> begins as two stories, told in alternating sections, about two eleven-year-olds in Sudan, a girl in 2008 and a boy in 1985. The girl, Nya, is fetching water from a pond that is two hours' walk from her home: she makes two trips to the pond every day. The boy, Salva, becomes one of the "lost boys" of Sudan, refugees who cover the African continent on foot as they search for their families and for a safe place to stay</p>



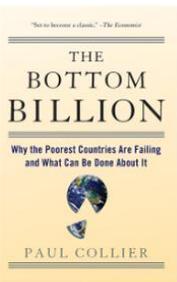
*The Memory of Love.* As a decade of civil war and political unrest comes to a devastating close, three men must reconcile themselves to their own fate and the fate of their broken nation. For Elias Cole, this means reflecting on his time as a young scholar in 1969 and the

affair that defined his life. For Adrian Lockheart, it means listening to Elias's tale and following his own heart into a heated romance. For Elias's doctor, Kai Mansaray, it's desperately battling his nightmares by trying to heal his patients.

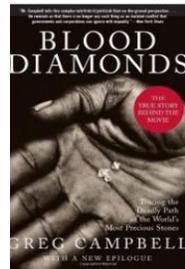


*The Heaven Shop.* At her father's funeral, Binti's grandmother utters the words that no one in Malawi wants to hear. Binti's father and her mother before him, dies of AIDS. Binti, her sister, and brother are separated and sent to the home of relatives who can barely tolerate

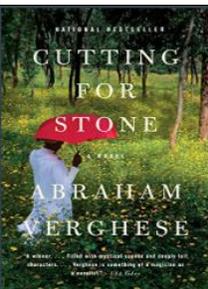
their presence. Ostracized by *their* extended family, the orphans are treated like the lowest servants. With her brother far away and her sister wallowing in her own sorrow, Binti can hardly contain her rage. She, Binti Phirim, was once a child star of a popular radio program. Now she is scraping to survive. Binti always believed she was special, now she is nothing but a common AIDS orphan.



*The Bottom Billion.* In the universally acclaimed and award-winning *The Bottom Billion*, Paul Collier reveals that fifty failed states-home to the poorest one billion people on Earth-pose the central challenge of the developing world in the twenty-first century.

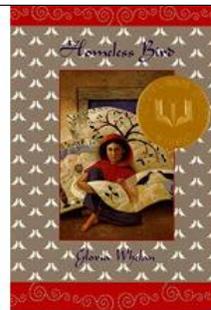


*Blood Diamonds* is the gripping tale of how diamond smuggling works, how the rebel war has effectively destroyed Sierra Leone and its people, and how the policies of the diamonds industry institutionalized in the 1880s by the De Beers cartel have allowed it to happen.



*Cutting for Stone* by Abraham Verghese. A coming-of-age tale about a boy who grows up on the grounds of a hospital in Ethiopia. An unexpectedly relevant for today, especially for a book set mostly in the 1950s through 1980s. It shows how clinics in developing

countries often scrape by on philanthropic funding, and what could happen to global health care if the United States pulls back its funding. And it highlights the role physicians born abroad play in our health care system, particularly in underserved areas.



*Homeless Bird.* Like many girls her age in India, thirteen-year-old Koly faces her arranged marriage with hope and courage. But Koly's story takes a terrible turn when in the wake of the ceremony, she discovers she's been horribly misled—her life has been sold for a

dowry. Can she forge her own future, even in the face of time-worn tradition?