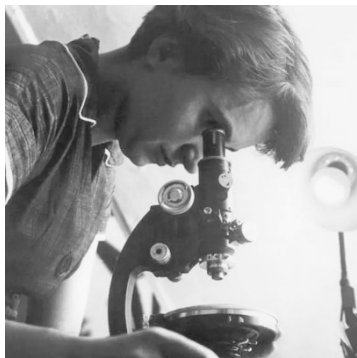


# THE SECRET OF LIFE : A Science Play Series



## PHOTOGRAPH 51

a play by Anna Ziegler | March 13 14 15 | 2020



## WHO IS ROSALIND FRANKLIN?

Rosalind Franklin (1920-1958) was an English x-ray crystallographer and chemist who made contributions to the understanding of the molecular structures of DNA, RNA, viruses, coal, and graphite. Although the work she did with coal and viruses was appreciated in her lifetime, her contributions to the discovery of the structure of DNA have largely been recognized posthumously.

## ACTOR'S NOTE

I love science. The rush I have felt when I made a discovery is second only to the rush of stepping from backstage into the light on opening night. I can only imagine the rush Dr. Franklin must have experienced the moment she looked at Photo 51. Her work. Her discovery.

When I was in grad school for my Biology degree I learned I almost didn't get a summer internship because someone said I was "difficult" to work with. When I spoke with my advisor he said not to worry about it, he knew who it was and "he just doesn't like women." I'm not sure what bothered me more: almost losing a great opportunity solely because I was female or being told not to worry about it. Unfortunately my story is very mild relative to the experiences many women in science have. In a career where the game is publish or perish women have the extra hurdle of just getting to a position where they can have the opportunity to enter the race.

In 1968, 10 years after Franklin's death, Watson published his account of the discovery of DNA. He was not generous to Franklin to say the least and dismissed the importance of her role in the work. In his book he tells the story of himself and Crick discovering the secret to life in The Eagle Pub in Cambridge. There is a plaque on the wall commemorating the event. A few years ago someone used a marker to add "+ Franklin" to the plaque.

The lack of recognition Dr. Franklin has received until recent years in no way diminishes her contribution itself. Her image of DNA is the base of modern bioscience research. Without her work, I would not have had the chance to even think about a summer internship in the biological sciences. I think I would have liked her - and have been intimidated by her intensity of purpose. I hope I can do her justice and bring a bit more of her work from backstage, into the light.

— Karen Konzen, *Rosalind Franklin in Photograph 51*

*"We could see everything, really see it –  
except, sometimes, what was right in front of us."*

– Rosalind Franklin, Photograph 51

presented by Actors Collective  
in partnership with Museum of Science & History  
and sponsored by STAGE Fund

## **PHOTOGRAPH 51**

**by Anna Ziegler**

directed by CARYL BUTTERLEY

ROSALIND FRANKLIN ..... Karen Konzen  
MAURICE WILKINS ..... Christopher Watson  
RAY GOSLING ..... Joshua Taylor  
FRANCIS CRICK ..... Christopher P. Farrell  
JAMES WATSON ..... Rich Pintello  
DON CASPAR ..... Mitchell Wohl

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this play is performed without an intermission

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PHOTOGRAPH 51 is performed by special arrangement with Dramatist Play Service. It is the winner of the 2008 STAGE International Script Competition and was developed, in part, through the University of California, Santa Barbara's STAGE Project by the Professional Artists Lab (Nancy Kawalek, Director) and the California NanoSystems Institute. PHOTOGRAPH 51 was developed by The Ensemble Studio Theatre/Alfred P. Sloan Foundation Science and Technology Project and received its New York premiere at the Ensemble Studio Theatre on Oct. 27, 2010. Originally commissioned and produced by Active Cultures, the Vernacular Theatre of Maryland. Opening Night on Sunday, Feb. 10, 2008. PHOTOGRAPH 51 was developed by the Cape Cod Theatre Project.

### **THANK YOU**

The following people and organizations helped make this performance possible: Bob & Carolyn Strong, Mark & Cheryl O'Connor, Anne Roberts, All Beaches Experimental Theatre, Apex Studio Theatre, and The 5 & Dime.



**KAREN KONZEN** (Rosalind Franklin) was most recently seen as Olympe de Gouges in *The Revolutionists* (Actors Collective / Babs'Lab) and Artie in *Eleemosynary* (ABET). Other stage credits include *A Picasso* (The 5 & Dime), *On The Verge* and *Macbeth* (ABET), *The Fox On The Fairway* and *Conversations After A Burial* (Players by the Sea), *Tea And Sympathy* (Theatre Jacksonville), and *House Of Blue Leaves* (Limelight Theatre). Film credits include the lead role of Maya "Thunder" Brown in *Thunder* (official selection of the Sunscreen Film Festival), the principal role of Helen in *Cry For The Bad Man* (starring Camille Keaton), and the lead role in two of filmmaker Kendall Brunson's most recent shorts *Grab This!* and *Box* (featured in the Loft Film Festival). Karen also recently wrote a series of monologues performed as part of the Actors Collective / ABET production *One By Tenn Plus Eight*. In addition to her theatre resume, Karen has an MS in Biology from the University of Mississippi, with a background in molecular biology and genetics, and experience in both research and lab work. She currently works for Mayo Clinic in the Research Project Management Office.



**CHRISTOPHER WATSON** (Maurice Wilkins) is returning to Actors Collective for this encore presentation of *Photograph 51*, and can hardly contain his excitement at being reunited with this cast and crew. Most recently you may have caught Christopher in either of Jason Woods' productions of *Peter Pan* (Smee) or *Mr. Belvedere Rings The Bell* (Reverend Watson). He also was recently in The 5 & Dime's production of *Small Mouth Sounds* as Ned and Player's By The Sea's production of *Noices Off!* as Frederick and was also honored with the Pelican Award for Best Supporting Actor in a play. He is active (for better or for worse) in Creative Vein's Suds N' Shakespeare productions, most recently as Horatio in *The Taming Of The Shrew*. He thinks. The night was a bit blurry. Thank you for coming out and supporting not only the arts, but science! The world needs more of both, and that isn't possible without your support.

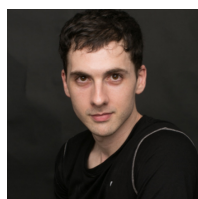


**JOSHUA TAYLOR** (Ray Gosling) is proud to be returning to MOSH with Actors Collective to reprise the role of Ray Gosling in *Photograph 51*. He most recently brought to life Jack Frost at Dickens on Centre, the iconic Captain Hook in *Peter Pan*, and originated the role of Checkley in the world premiere of *St. George & The Dragon* – all under the direction of Jason Woods. He has also worked with Jacksonville Beach's Players By The Sea in *Bloody Bloody Andrew Jackson*, *The Merchant Of Venice*, *A Moon For The*

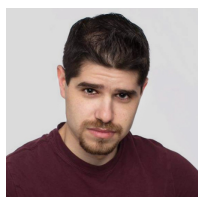
*Misbegotten, Parade, Bill W. & Dr. Bob, and A Perfect Ganesh*, and premiered *Hair* in Amelia Island. Other past performances include roles in *Last Night of Ballyhoo, Twentieth Century, Night of January 16th, Dearly Beloved, Our Town*, and *Romeo & Juliet* at Theatre Jacksonville. He is also a founder and artistic board member of The 5 & Dime Theatre Co, ([www.the5anddime.org](http://www.the5anddime.org)) helping produce ten seasons while occasionally appearing onstage in *love! Valour! Compassion!*, *Machinal, Bent, Elegies*, and *33 Variations*. He would like to thank his incredibly loving and supportive family and friends, his director Caryl Butterley, and his tirelessly dedicated castmates. He dedicates this performance to his mother and father, RW, & CD, who continue to provide daily inspiration in all areas of his life. "An actor is a sculptor who carves in snow."



**CHRISTOPHER P. FARRELL** (Francis Crick) has been involved with the Jacksonville art scene for too damned long. From acting to opera stage management and direction, hosting burlesque inspired sketch classes, opening for John Cameron Mitchell or producing a Rocky Horror Picture Show & Stallone's Rocky mash-up for MOCA, there is no show too unconventional or ambitious for him to undertake. Some of his more recent work includes Aaron Posner's Chekov deconstruction, *Stupid F\*cking Bird*, the rock musical *Hedwig And The Angry Inch* twice, and *Evil Dead: The Musical!*, all of which were sold out productions. Last spring, he worked on Lee Blessing's *Eleemosynary* at ABET, with our own Rosalind Franklin, Karen Konzen. He loves cycling, reading, most animals, critical analysis, and handbell choirs.



**RICH PINTELLO** (James Watson) is an actor you may remember from the 2019 production of *Photograph 51* and the Actors Collective summer production of *One By Tenn Plus Eight*. You may also remember him from the Theatre Jacksonville's productions of *I Hate Hamlet* in 2019 and *Love Quest* in early 2020.



**MITCHELL WOHL** (Don Caspar) is honored to be revisiting *Photograph 51* with this amazing cast! He was last seen at The 5 & Dime in *The Harvest* (Tom). Other recent credits include *Reasons To Be Pretty* (Kent), *The Crucible* (Reverend Hale), *Women's Work* (Avery), *Love's Labor's Lost* (King Navarre), *City Of Angels* (Stine), *The Hot L Baltimore* (Suzy's John), *Into The Woods* (Cinderella's Prince), *Godspell* (John the Baptist/Judas), *The Miracle Worker* (James Keller), and *La Caroline* at MOSH (Jean Ribault).

*“We made the invisible visible.”*

— Rosalind Franklin, *Photograph 51*

**CARYL BUTTERLEY** (director) was a working producer, director, and actor in New York City for over 20 years before relocating to Jacksonville. While in New York, she spent a season with the Manhattan Theatre Club as assistant production manager, working on the Broadway production of *A Small Family Business*, as well as the Off-Broadway productions of *Lips Together Teeth Apart*, *Sight Unseen*, *The Extra Man*, and more. Her NY directing credits include *Loves and Other Losses*, *Fall River Tragedy*, *Dr. Jekyll and Mr. Hyde*, *When Michael Died*, and a concert performance of the new musical *Fallen Angel* at Bay Street Theatre, featuring the legendary Phoebe Snow. She also served as Artistic Director on the symphonic recording of the new musical *Eagle Song*, and produced and directed the cabaret series *Downtime* at Eighty-Eights. Caryl studied theatre at the University of Minnesota, acting with Sandy Dennis at HB Studio, musical performance with Betty Buckley, and is a former fellow with the Eugene O'Neill Theater Center. Since moving to Jacksonville, Caryl's work with the local theatre community has included directing *The Sugar Bean Sisters*, *Once On This Island*, *Love Loss And What I Wore*, *On The Verge*, and *The Vandal* at ABET, *Fahrenheit 451* and *A Picasso* with The 5 & Dime Theatre Co. (of which she is a founding member), and since founding Actors Collective has directed *Photograph 51*, *One By Tenn Plus Eight*, and *The Revolutionists*.

**ANNA ZIEGLER** (playwright) is an award-winning playwright whose widely produced play *Photograph 51* won London's 2016 WhatsOnStage award for Best New Play. It was selected as a "Best of the Year" play by The Chicago Tribune, The Washington Post (twice) and The Telegraph. In 2017, The Williamstown Theatre Festival, The Manhattan Theatre Club and The Geffen Playhouse premiered her play *Actually* (winner of the Ovation Award in Los Angeles for Playwriting of an Original Play), and The Roundabout Theatre Company produced *The Last Match*. Her play *The Wanderers* won the 2018 San Diego Critic's Circle Award for Outstanding New Play and *Boy* was nominated for the 2016 John Gassner Award by the Outer Critics Circle. Her work has been produced on the West End (*Photograph 51*, starring Nicole Kidman, winner of the Evening Standard Award for Best Actress) and at The Old Globe, Seattle Rep, South Coast Rep, Cincinnati Playhouse, The Ensemble Studio Theatre, Theater J, The Magic Theatre and many more, and developed at the Sundance Theatre Lab, The O'Neill Playwrights Conference, NY Stage & Film, Soho Rep and the Cape Cod Theatre Project, amongst others.

*"Somewhere, something incredible is waiting to be known."*

— Carl Sagan



The Actors Collective is the brainchild of Caryl Butterley. Our emphasis is on theatrical storytelling that challenges expectations of what theatre can be and whose stories get told. We partner with local organizations on projects that complement their missions and areas of focus, and create opportunities for theatre artists to be compensated for their work. We keep in touch with our patrons via social media and email. Visit our website and sign up for our mailing list: **[www.ActorsCollective.com](http://www.ActorsCollective.com)**



The Museum of Science & History (MOSH) inspires the joy of lifelong learning by bringing to life the sciences and regional history. From humble beginnings, MOSH has grown into the only institution of its kind in Northeast Florida. MOSH creates exhibits and programs exploring climate change, tolerance, water conservation, and environmental sustainability. This illustrates why MOSH's combined science and history center is an integral part of the Jacksonville area's social, cultural, and economic capital. **[www.TheMOSH.org](http://www.TheMOSH.org)**



The STAGE Fund, which stands for Sustaining Theatre Artists to Grow Excellence, was conceived by a community collaborative and launched by Alicia Somers, Lisa Goodrich, and Diane Brunet-García in 2017 to support top theatre artists in the Jacksonville area—artists who aspire to act or create professionally, rather than simply volunteering at their local community theatre. **[www.STAGEFund.org](http://www.STAGEFund.org)**



Mayo Clinic is a nonprofit organization committed to innovation in clinical practice, education and research, and providing compassion, expertise and answers to everyone who needs healing. **[www.MayoClinic.org](http://www.MayoClinic.org)**

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Thank you to Mayo Clinic for sponsoring the community conversations after our Sunday matinees. This production's panel will be on the topic of women in STEM fields and inspiring the next generation of scientists.

## THE SECRET OF LIFE: A Science Play Series

Actors Collective presents three plays, performed reader's theatre style, to complement and expand on the themes presented in MOSH's exhibition Genome: Unlocking Life's Code.

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### THE PAST

#### **PHOTOGRAPH 51**

a play by Anna Ziegler | March 13 14 15

A riveting and moving portrait of Rosalind Franklin, one of the great female scientists of the twentieth century, and the often overlooked role she played in the discovery of the double helix. Photograph 51 masterfully weaves the thriller-like twists and tension in the race to discover the structure of DNA with lyrical moments of awe and scientific wonder, while revealing the unsung achievements of this trail-blazing, fiercely independent woman. A special encore performance of last year's debut production.

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### THE PRESENT

#### **THE HOW AND THE WHY**

a play by Sarah Treem | June 12 13 14

Evolution and emotion collide in this thought-provoking play about science, family, and survival of the fittest. On the eve of a prestigious conference Rachel, a young, up-and-coming evolutionary biologist with a radical new hypothesis challenges the work and life choices of an established professor, who is revealed to be her birth mother. This intimate and keenly perceptive play, written by the former writer and co-executive producer of House of Cards, examines the development and progression of scientific theory, along with the difficult choices faced by women of every generation.

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### THE FUTURE

#### **A NUMBER**

a play by Caryl Churchill | September 11 12 13

Set in a world in which human cloning is a reality, A Number explores the ethics of cloning, the fragility of personal identity and the conflicting claims of nature and nurture. A beguiling psychological thriller that blends scientific speculation with a stunning portrait of the relationship between fathers and sons. Written by one of Britain's greatest living playwrights.