

Training Opportunities within the Intramural Program of the National Institutes of Health

W. Douglas Figg
National Cancer Institute
National Institutes of Health
Bethesda, MD USA



27 Institutes/Centers make-up the NIH



National Heart
Lung and Blood Institute





National Institutes of Health

- Annual investments:
 - >\$31 billion
- Competitive extramural grants account for more than 85% of NIH budget
- \$3.5 billion of this funding is exclusively for intramural projects



National Institutes of Health

Main campus is in Bethesda, MD on 300 acres in 75 buildings





National Institutes of Health

Other locations include Baltimore, MD, Frederick, MD, Research Triangle Park, NC, Hamilton, MT, Framingham, MA, Phoenix, AZ, Detroit, MI





National Institutes of Health

Approx. 1,200 PIs, >5,000 fellows and >15,000 support staff





National Institutes of Health

The Mark O. Hatfield Clinical Research Center opened in 2005. The facility houses inpatient units (240 beds), day hospitals, and research labs and connects to the original Warren Grant Magnuson Clinical Center. Together, the Magnuson and Hatfield buildings form the NIH Clinical Center.



The NIH Clinical Center

“There’s no other hospital like it”



The NIH Clinical Center

>100,000 ambulatory visits and >6,000 admissions per year



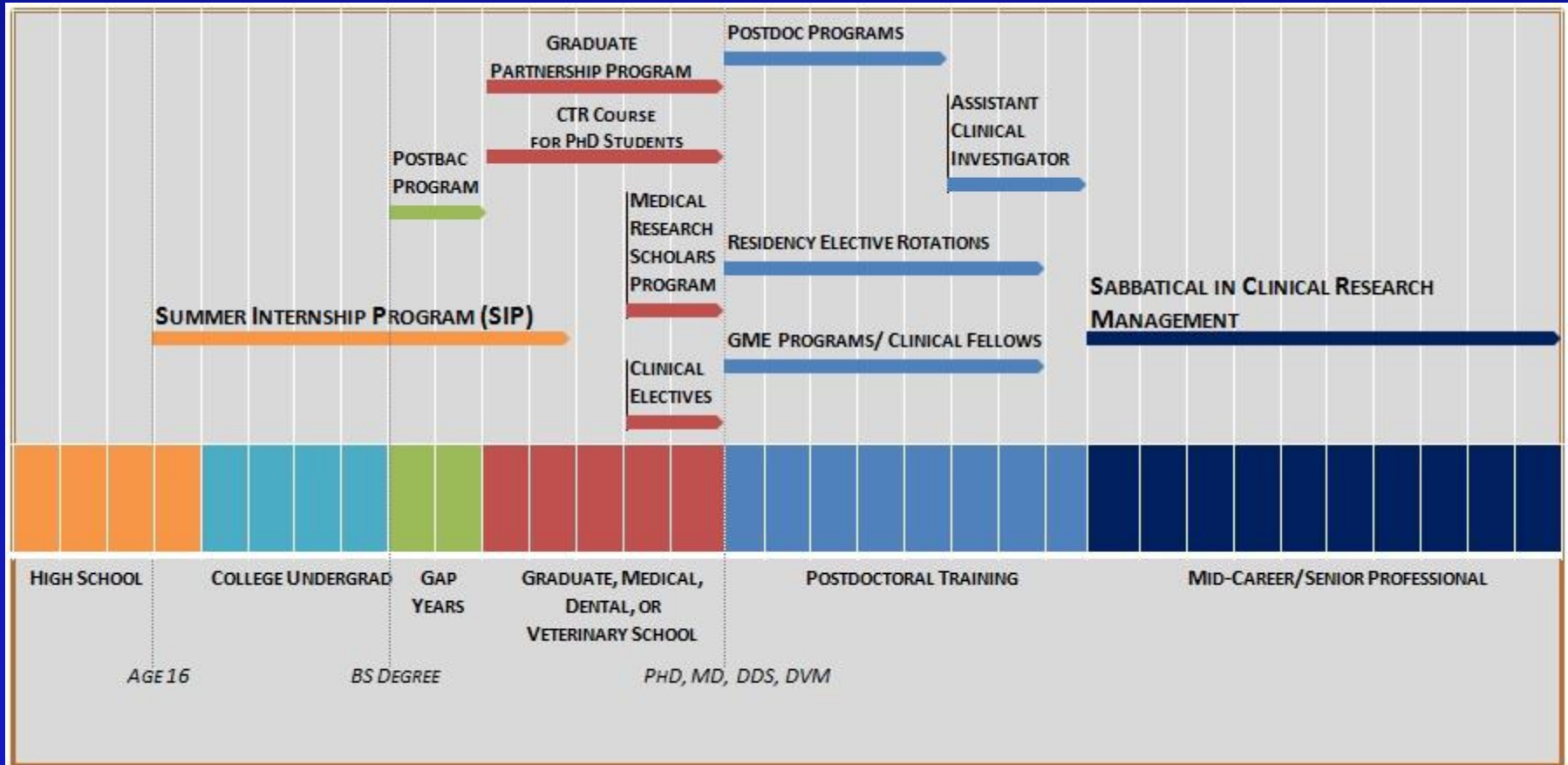
NIH Clinical Center

“A Laboratory for Clinical Research”

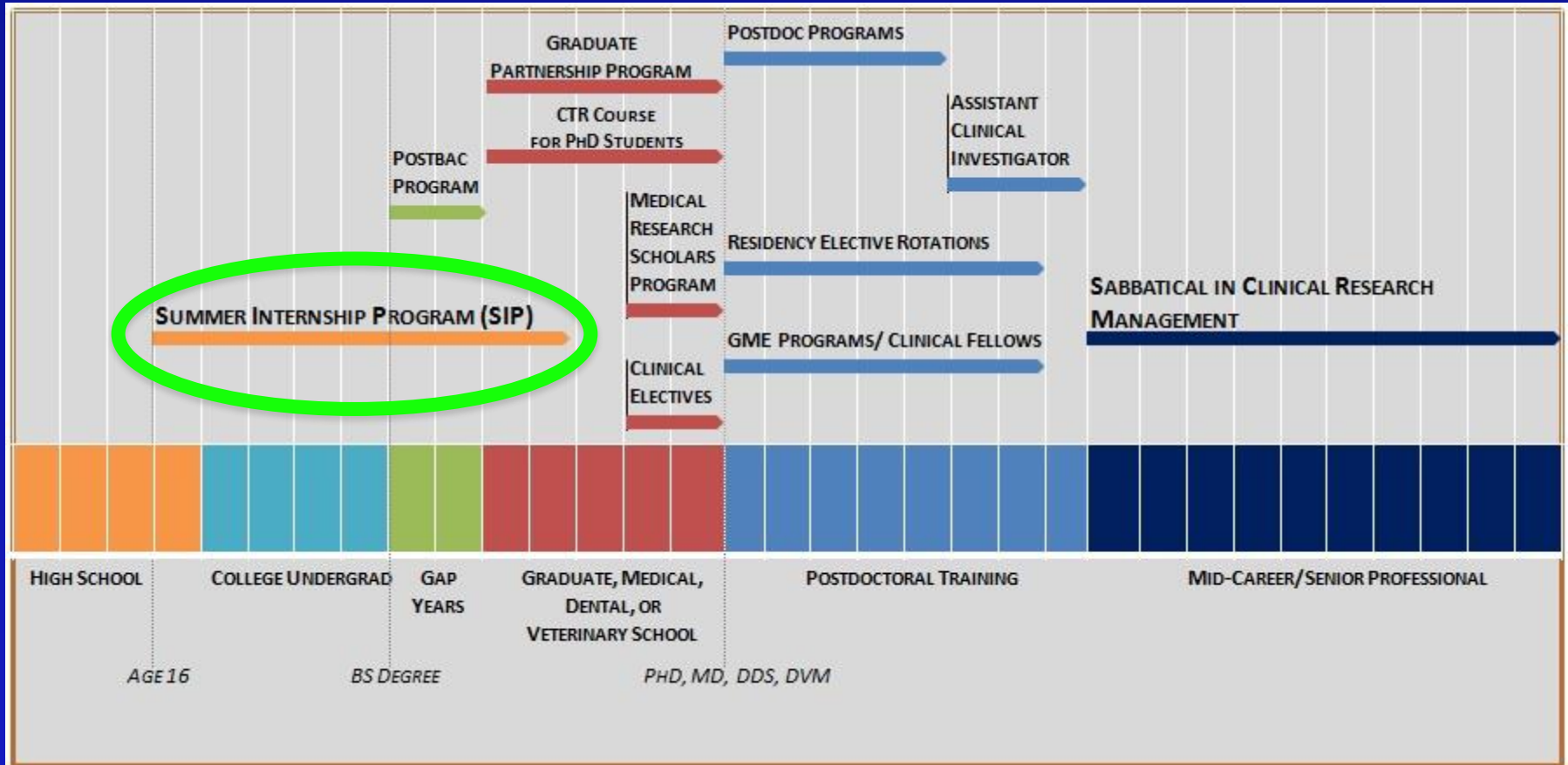


- We do not bill 3rd party payors
- Every patient is enrolled in a research protocol; > 1,600 active protocols
- Patient travel/housing is provided for clinical visits
- 1,255 credentialed physicians
- Inpatient wards and outpatient clinics are close to a PIs research laboratory

Portfolio of Clinical Research & Training Opportunities at the NIH



Portfolio of Clinical Research & Training Opportunities at the NIH

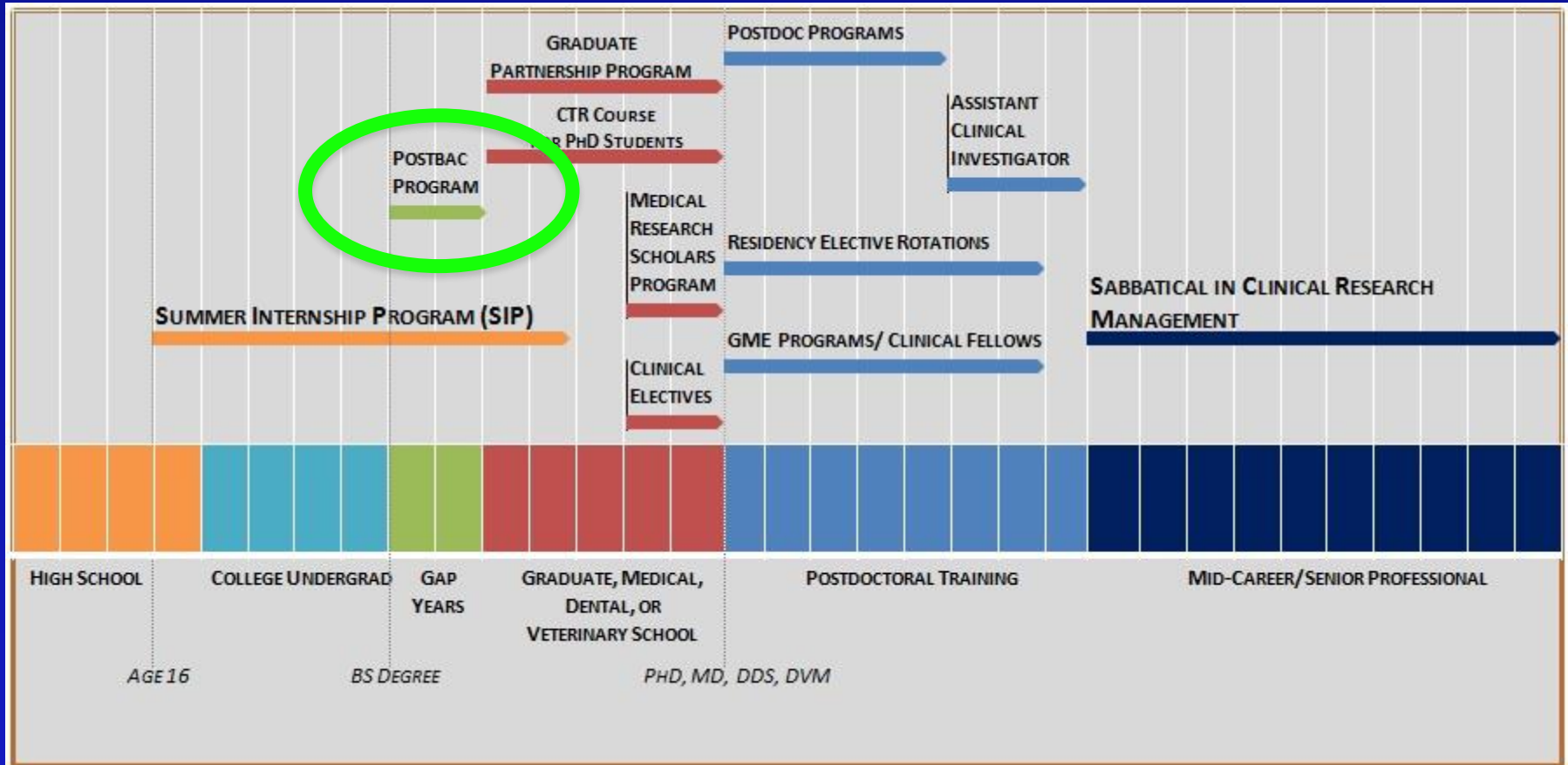


Summer Internship Program



- 2015 – 7,000 applications for about 1,000 positions
- Limited to US citizens or permanent residents
- Must be enrolled in high school, accredited college/university as an undergraduate, graduate or professional student
- 8 weeks minimum

Portfolio of Clinical Research & Training Opportunities at the NIH

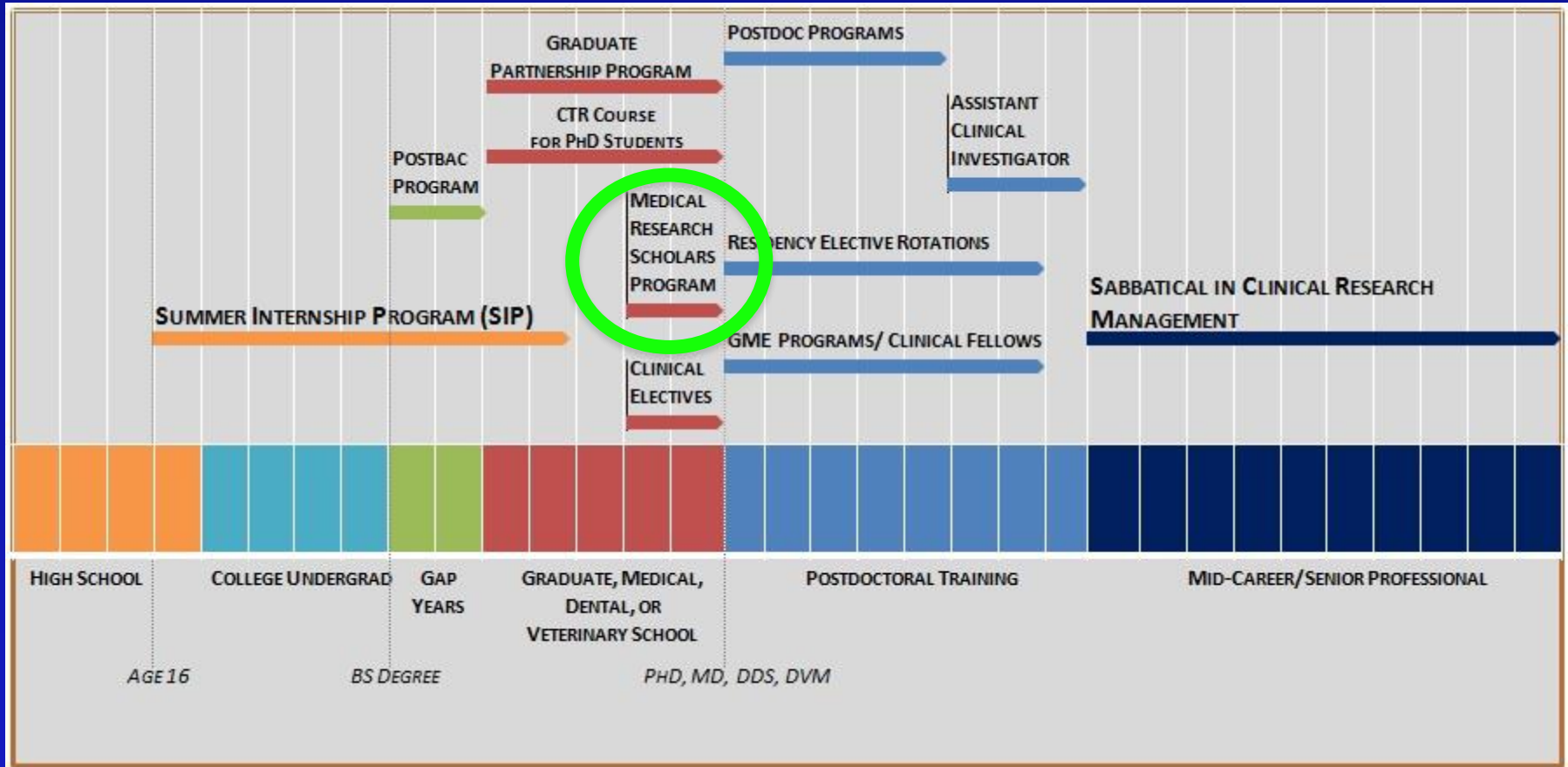


Postbac Fellowship Program



- **Hired by PIs within the institutes/centers**
- **Typically 1-2 years, but could be up to 5 years**
- **Must be a recent college graduate**
- **Must be a US citizen or permanent resident**
- **Must intend to apply to graduate or professional school**

Portfolio of Clinical Research & Training Opportunities at the NIH



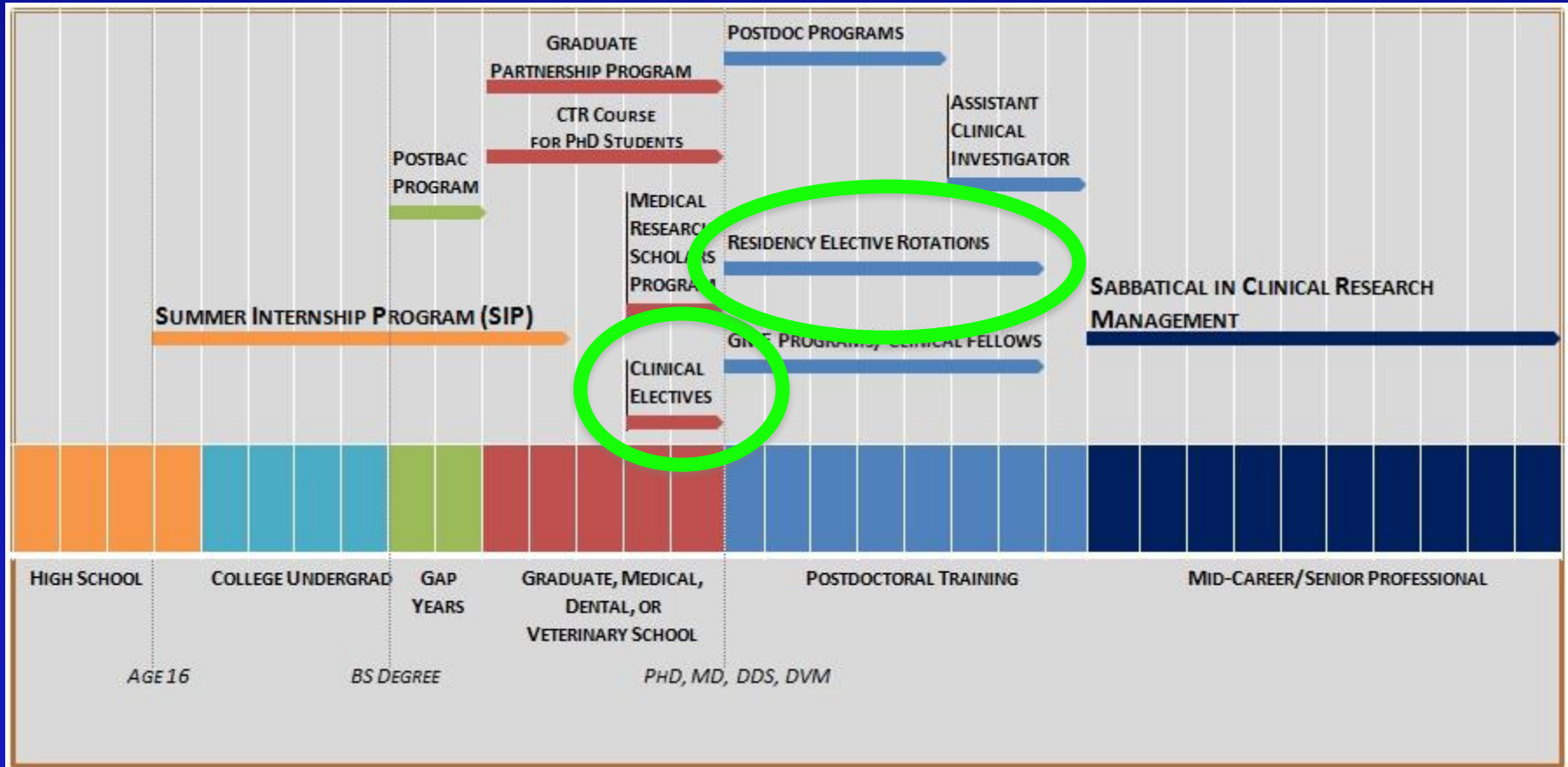
Medical Research Scholars Program



What Is MRSP?

- **A comprehensive, year-long, residential research enrichment program for ~ 45 medical, dental or veterinary students**
- **Co-sponsored by the NIH and private partners (via Foundation for the NIH)**
- **Nationally competitive, application-driven**
- **Scholars work with a mentor on a basic, clinical, or translational project matching research interests and career goals**

Portfolio of Clinical Research & Training Opportunities at the NIH



Clinical Electives Program



Elective Clinical Rotations

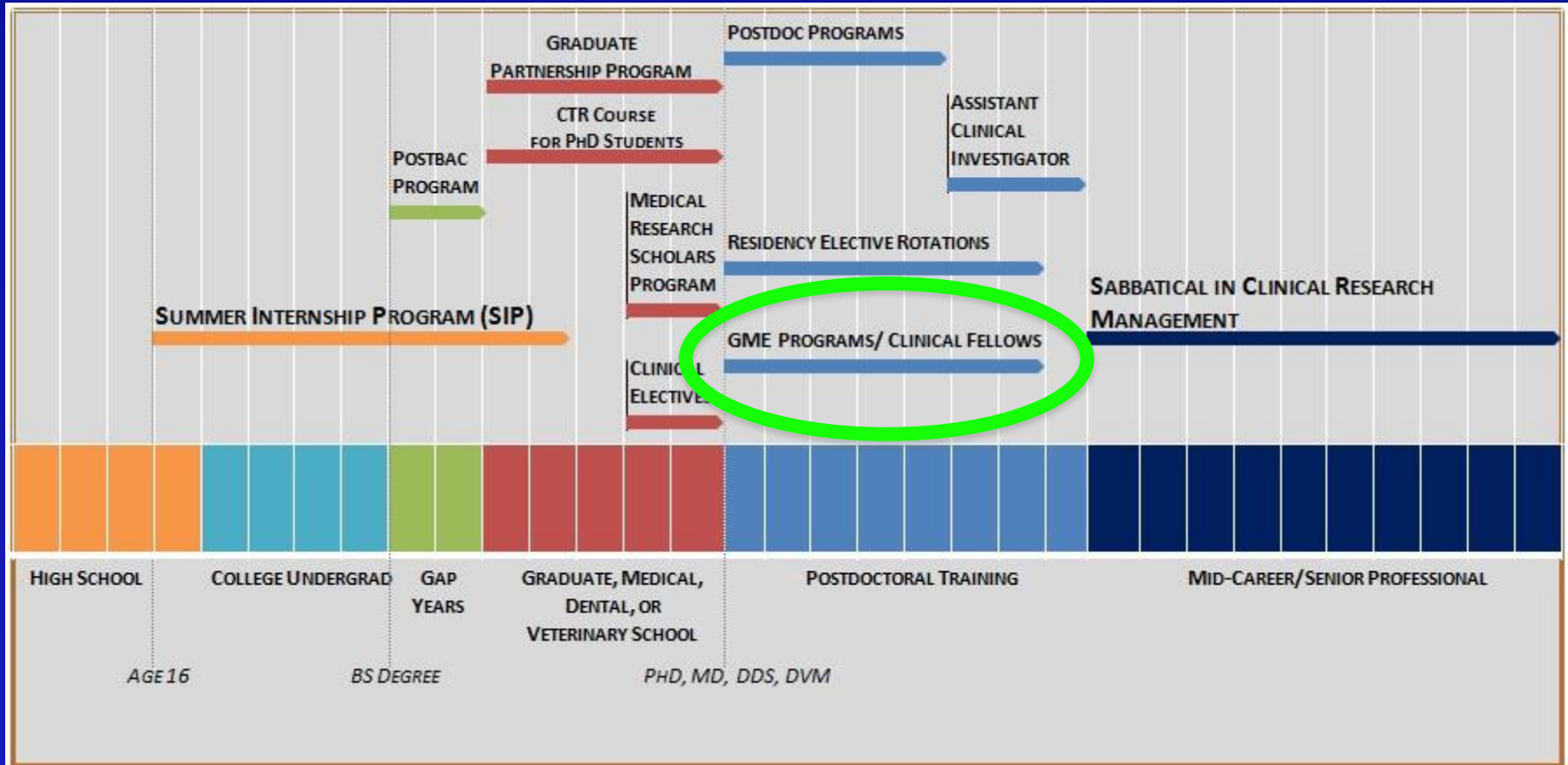
- **Medical, dental or pharmacy students**
- **Students apply for clinical rotation slots**
 - **4 to 12 weeks duration**
- **Participate directly in the practice of translational medicine at Clinical Center**
- **MDs can apply for a Clinical Pharmacology Rotation**
- **PharmD – two options – Clinical with the NIH CC's Pharmacy Department or Research Pharmacy with myself in the NCI**

Elective Clinical Rotations

- Likewise, we offer elective rotations for medical residents



Portfolio of Clinical Research & Training Opportunities at the NIH



Graduate Medical Education



ACGME Accredited GME Programs

- Allergy/Immunology
- Anatomic Pathology
- Cytopathology
- Critical Care Medicine
- Endocrinology and Metabolism
- Hematology
- Hematopathology
- Hospice/Palliative Care
- Infectious Diseases
- Medical Oncology
- Medical Genetics
- Medical Biochemical Genetics
- Neurosurgery
- Pediatric Endocrinology
- Psychiatry
- Rheumatology
- Transfusion Medicine
- Vascular Neurology

Non-ACGME Accredited Programs

- Alcoholism
- Autonomic Disorders
- Cardiac/Cardio Imaging
- Child Psychiatry
- Clinical Chemistry
- Clinical Trial Methodology
- Cognitive Neuro
- Reproductive Endocrin
- Deafness Disorders
- Endocrine Clinical
- Epilepsy
- Hepatology
- HIV and AIDS Malig
- Human Genetics
- Image-Guided Cardiovas
- Movement Disorders
- Nephrology Clin Research
- Neurogenetics
- Neuroimmunology
- Neuro-Oncology

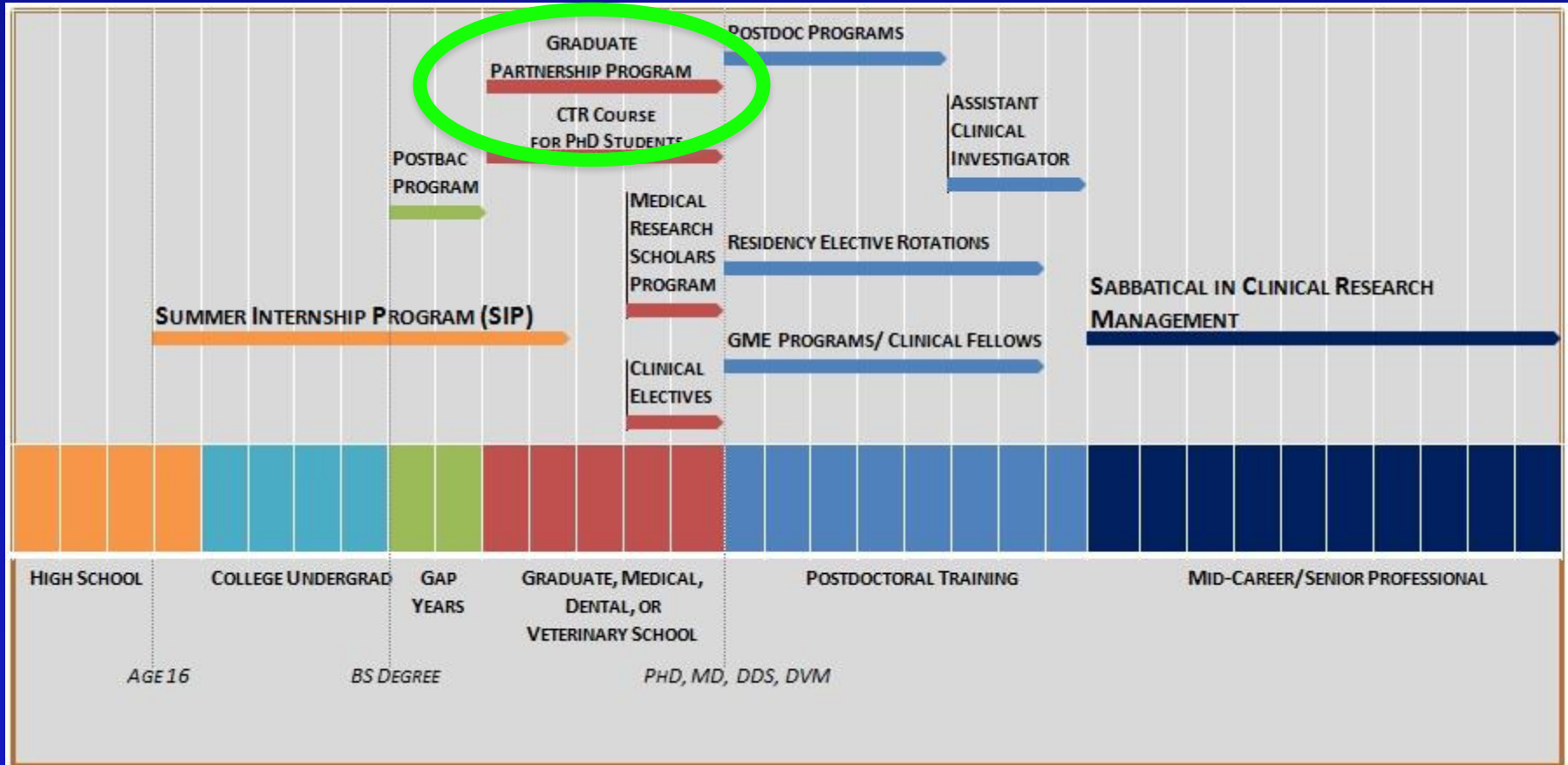
Non-ACGME Accredited Programs

- Neurorehabilitation
- Ophthalmic Genetics
- Surgical Neurology
- Surgical Oncology
- Urological Oncology
- Uveitis and Ocular Immunology

Jointly Sponsored ACGME- Accredited Training Programs

- **Clinical Neurosciences-Neurophysiology
(National Capital Consortium)**
- **Gastroenterology (University of Maryland)**
- **Pediatric Hematology-Oncology
(Johns Hopkins)**
- **Pediatrics- Medical Genetics (Children's
National Medical Center)**
- **Radiation Oncology (National Capital
Consortium)**

Portfolio of Clinical Research & Training Opportunities at the NIH



Graduate Partnerships Programs

Bioinformatics
Biophysics
Epidemiology
Immunology
Cell and Molecular
Biology
Neuroscience
Health Sciences
Structural Biology
Molecular Pathology
Pharmacology
Biobehavioral Research
Developmental Biology



Graduate Partnerships Programs



Boston University
Brown University
George Washington Univ
Georgetown University
Johns Hopkins Univ
Karolinska Institutet
Univ College London
University of Maryland
University of Montana
University of Oxford
University of Cambridge
Univ of Pennsylvania

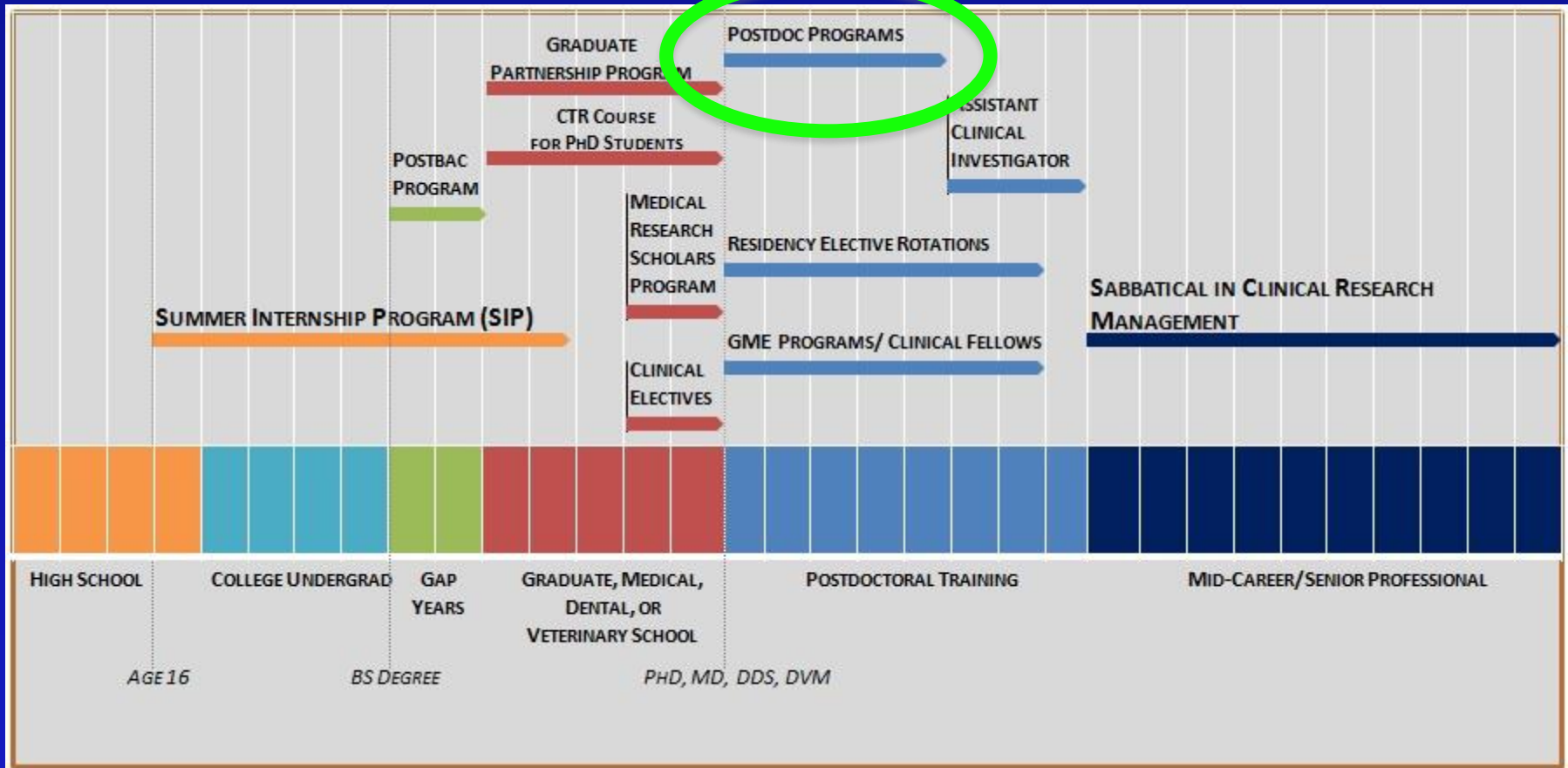
Non-GPP MOUs allow other Students from other Universities to complete their Dissertation Research



Most MST Programs (MD, PhD) allow Dissertation Research to be Completed at the NIH



Portfolio of Clinical Research & Training Opportunities at the NIH



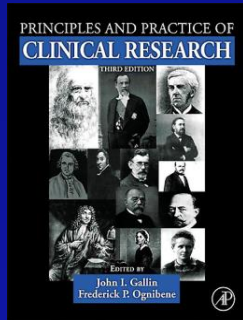
Post-Doctoral Research Fellowships

- **Approximately 4,000 in training at any given time**
- **Hired by PIs within the institutes/centers**
- **Typically 2 to 5 years, but could be up to 8 years**
- **Come from across the US and world**
- **Must hold a doctoral degree and have no more than 5 years prior post-doctoral training**

Post-Doctoral Research Fellowships

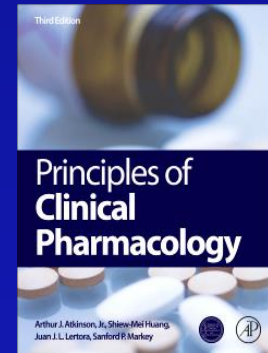
- **Two opportunities in Clinical Pharmacology**
 - **Within my laboratory at the NCI**
 - **Within the NIH CC's Pharmacy Department**

NIH Curriculum in Clinical Research

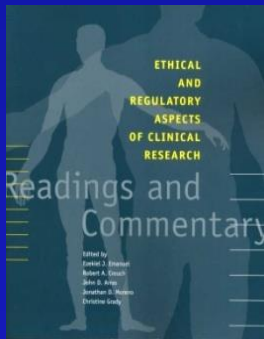


Introduction to the Principles & Practice of Clinical Research Course introduced in 1995

Principles of Clinical Pharmacology Course began in 1998



Ethical and Regulatory Aspects of Human Subjects Research Course began in 1999



Summer Clinical and Translational Research Course for PhD. Students



What's Special about the NIH?

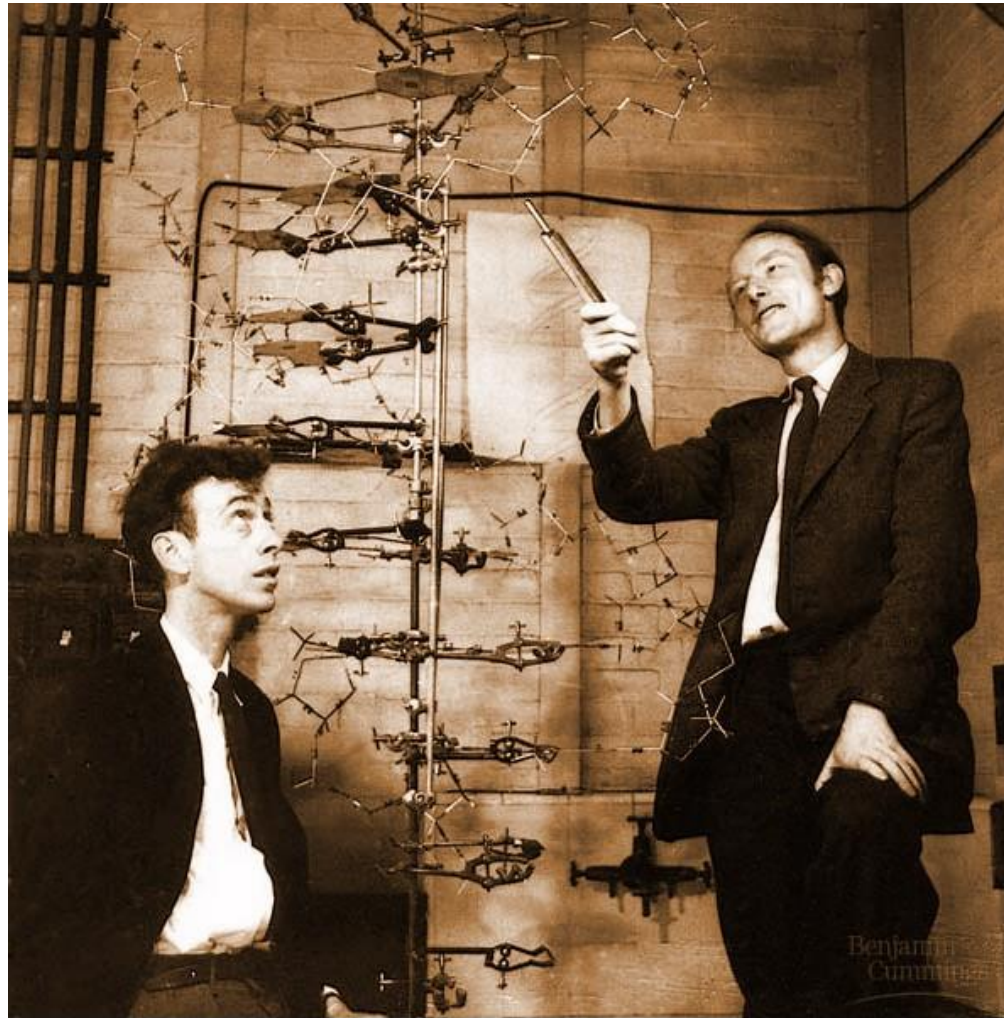


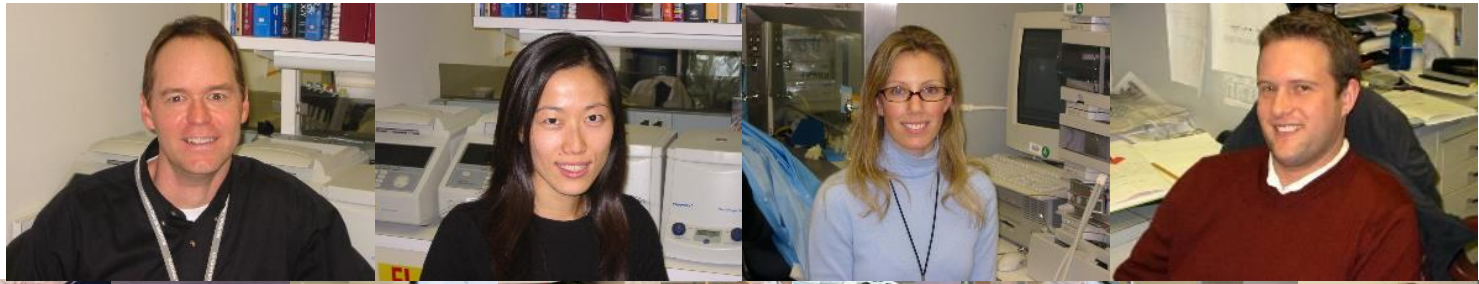
What's Special about the NIH?

Resources and Commitment to Research



Ability to Surround Yourself with Smart People





Questions

