

# The Michael J. Fox Foundation: Research Update

Susanna Wach, Advancement Officer

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THE MICHAEL J. FOX FOUNDATION  
FOR PARKINSON'S RESEARCH

# HERE. UNTIL PARKINSON'S ISN'T.

## Our Mission

The Michael J. Fox Foundation is dedicated to finding a cure for Parkinson's disease through an aggressively funded research agenda and to ensuring the development of improved therapies for those living with Parkinson's today.

- » Founded in **2000** by Michael J. Fox
- » Team of **180+** based in New York City
- » More than **125,000** donors supporting our mission to speed a cure in 2021
- » More than **\$1.5 billion** in research programs funded to date
- » **3,200+** projects by academics, biotechs, and pharma funded to date
- » **40%** of funded projects are led by researchers outside of the United States
- » Over **400** researchers convened each year for workshops and meetings
- » In 2020, community advocates contacted lawmakers **20,000+** times about critical Parkinson's issues



# WHAT MAKES MJFF UNIQUE?

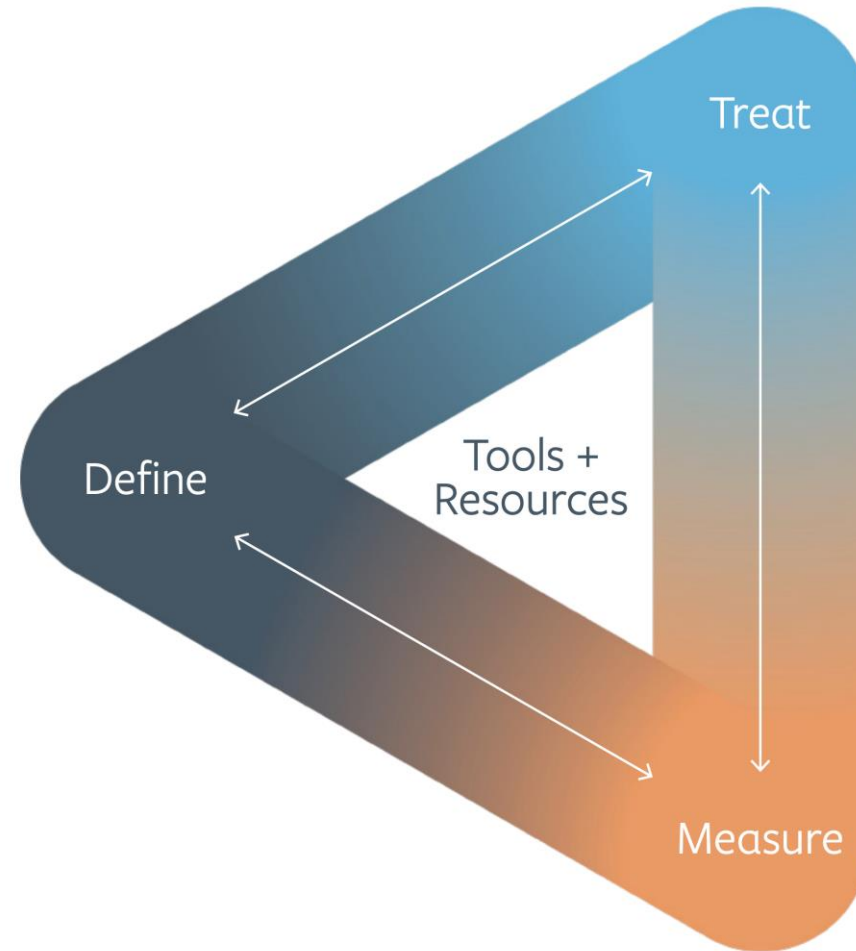
- » Needs of patients compel us to work urgently to fund most promising research
- » Deploy funding to research within months of receiving donations
- » Research team works to fund the most promising research in the most strategic way
  - 15PhDs, 1 MD (Movement Disorder Specialist), 12 business strategists
- » Grants are milestone driven with quarterly assessments
- » Grant-making process is structured to ensure collaboration



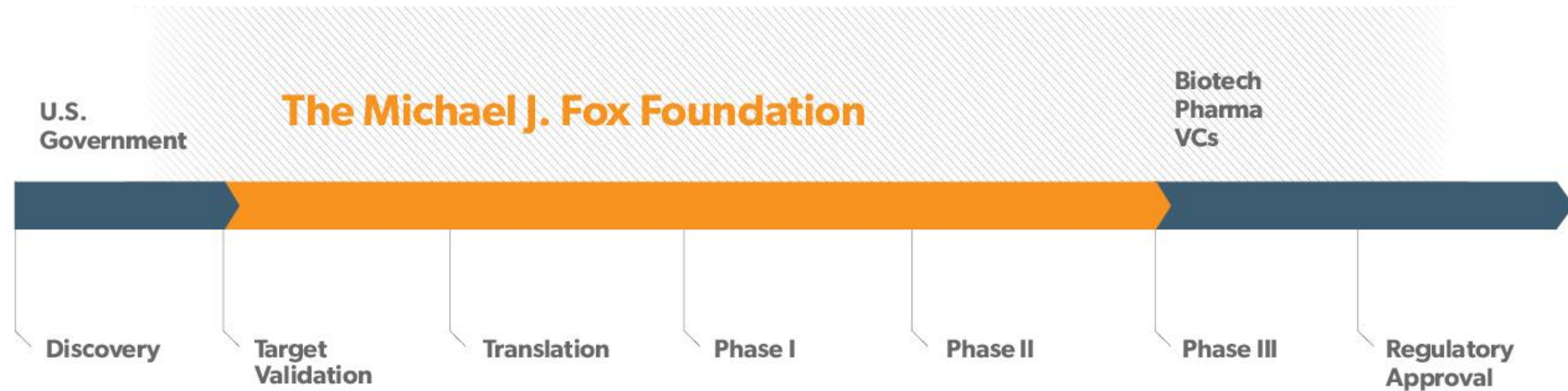
The Michael J. Fox Foundation has **no endowment** and **88¢ of every dollar spent** goes directly to research.



# OUR RESEARCH ROADMAP



# MJFF PLAYS A VITAL ROLE IN DRIVING DRUG DEVELOPMENT



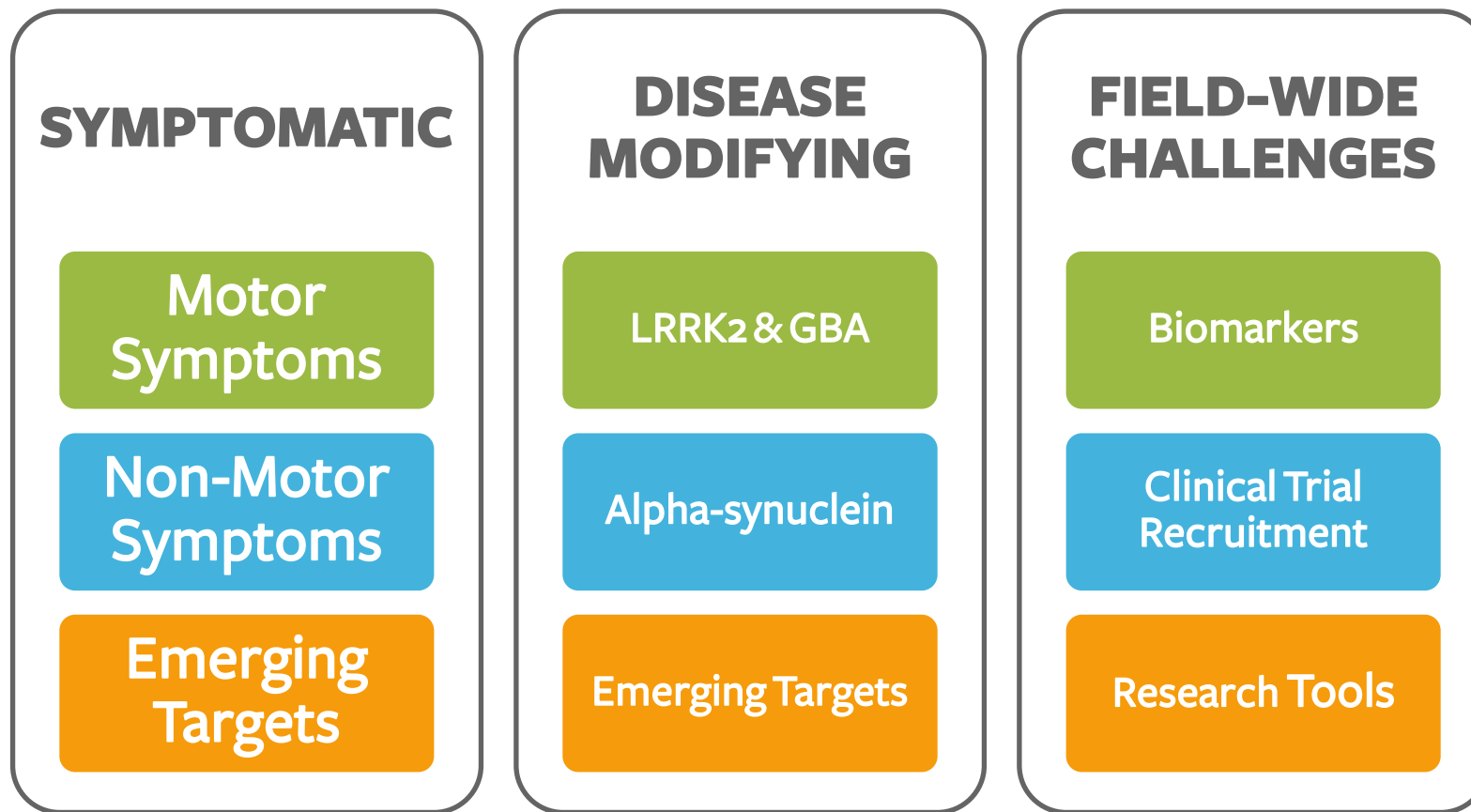
**MJFF supports promising, early-stage projects through the development pipeline to help them build the data that will attract funders with resources and experience in later stages.**





# **PARKINSON'S RESEARCH UPDATE**

# PRIORITY AREAS

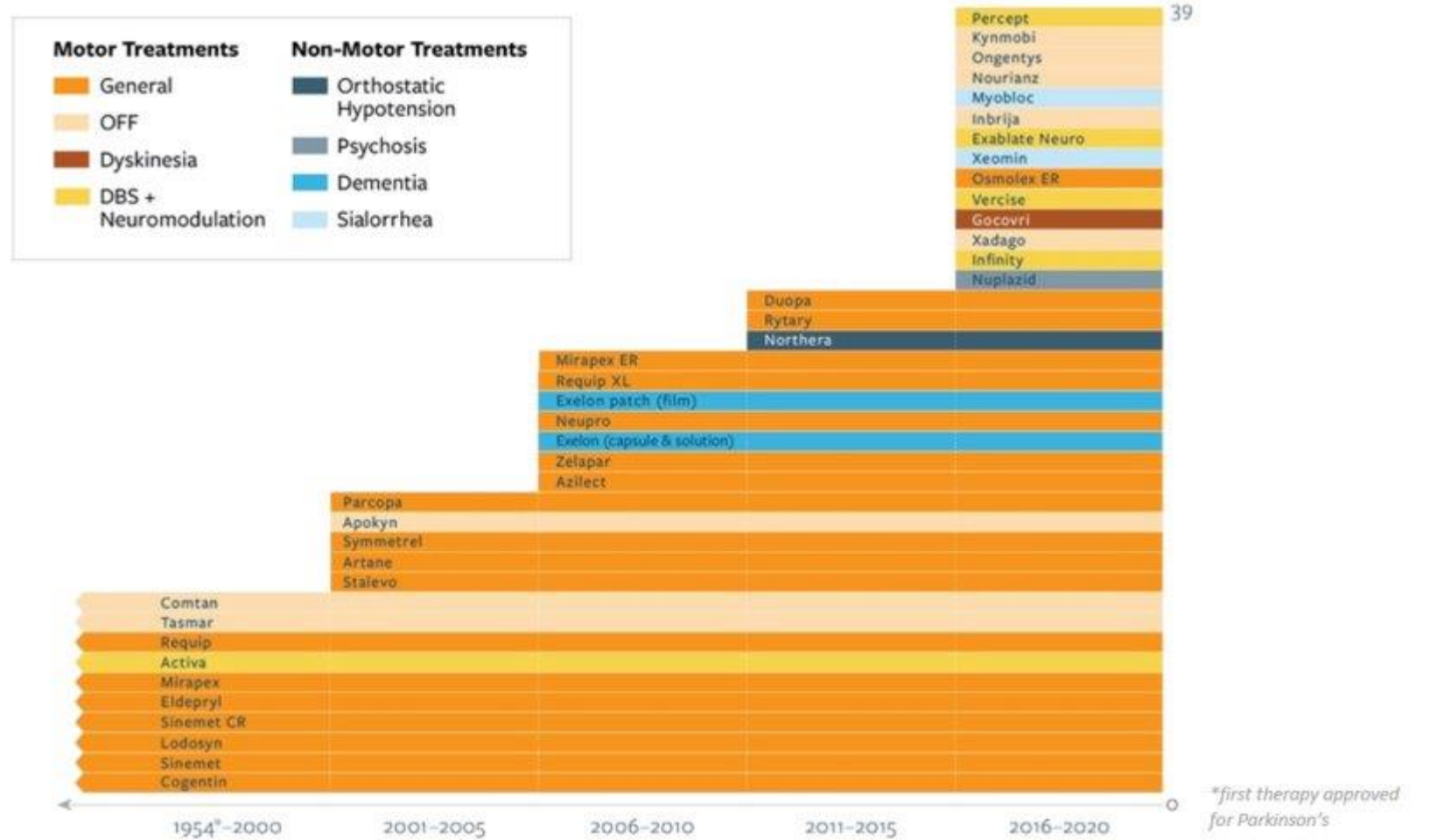


We prioritize and pursue research in these areas, providing financial and intellectual support for projects to ensure **progress toward new therapies for people with PD**



# Approved Therapies

39  
treatments for  
symptoms  
of Parkinson's





# EXPLORING INNOVATIVE WAYS TO ADDRESS UNMET NEEDS



Vibrating socks



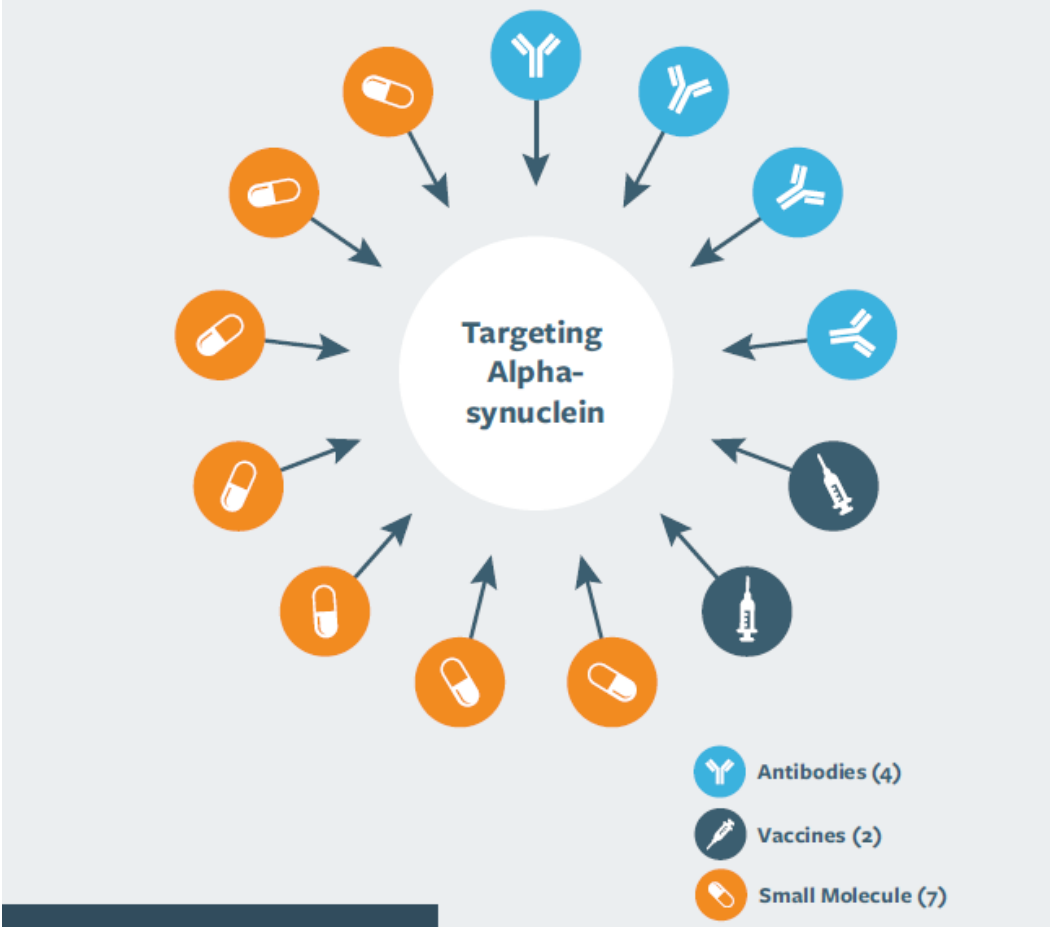
Waist-worn airbags



Assistive walking device



# THERAPIES TO SLOW OR STOP PD: ALPHA-SYNUCLEIN



# THERAPIES TO SLOW OR STOP PD

## Alpha-synuclein

- » Target protein that clumps in brain cells of everyone with PD—one of our most promising routes
- » 13 therapies across Phase I and II

## GBA & LRRK2

- » Most common genetic links to Parkinson's are mutations in these genes
  - » 4 therapies against GBA are in human trials—scientists investigating potential for treatments to benefit patients who do not carry the mutation
  - » 2 therapies targeting LRRK2 are in human clinical trials

## Other Therapies

- » Initiatives testing therapies repurposed from other diseases
- » Other targets include studying inflammation, mitochondria, oxidative stress, and cell repair



# GENETIC DISCOVERIES CAN POINT TO WIDESPREAD TREATMENTS

## FIND GENE MUTATION

- Look for families with PD
- Examine large populations of people with and without PD

## LINK GENE TO BIOLOGY

- How do mutations impact protein function?
- Do people without mutation have same dysfunction?

## DEVELOP TREATMENTS

- Will therapy help the wider PD population?



# WHAT WILL HELP US MOVE FASTER?

**Biomarkers: biological characteristics that alert us to risk, onset, or progression of disease**

A biomarker would help with:

- » Earlier diagnosis and therapeutic intervention
- » Charting disease progression
- » Designing clinical trials
- » Testing the impact of new therapies



# PARKINSON'S PROGRESSION MARKERS INITIATIVE (PPMI)



Parkinson's  
Progression  
Markers  
Initiative

**50**  
International clinical  
sites

**4,000+**  
Participants

**8M+**  
data downloads





**WHAT CAN YOU DO TODAY?**

# WHAT ELSE MAY HELP MANAGE SYMPTOMS?



## Exercise

No “right” exercise for Parkinson’s disease

Some (yoga, tai chi, boxing) may help with flexibility

Work with a physical therapist to build a safe regimen



## Diet

Healthy, balanced diet with antioxidants

Some adjustments may help with medication effect and with non-motor symptoms

Talk to your doctor before adding any supplements to your treatment regimen



## Self Care Activities

Meditation can relieve stress

Getting involved in your community or with favorite hobbies or creative projects (art, reading)



## Build a Care Team

Movement disorder specialist, physical therapist, occupational therapist, speech therapist, counselor, and nutritionist





# JOIN FOX INSIGHT

Fox Insight was developed in response to fundamental challenges around recruiting & retaining participants in conventional clinical studies (e.g. geographic, mobility, transportation)

<b>Volunteers Enrolled</b> <b>51,678</b>	<b>Study Visits Completed</b> <b>130,077+</b>	<b>Surveys Completed</b> <b>1,244,147+</b>
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75% of Fox Insight participants have Parkinson's  
25% of Fox Insight participants are control volunteers

[Foxinsight.michaeljfox.org](https://foxinsight.michaeljfox.org)

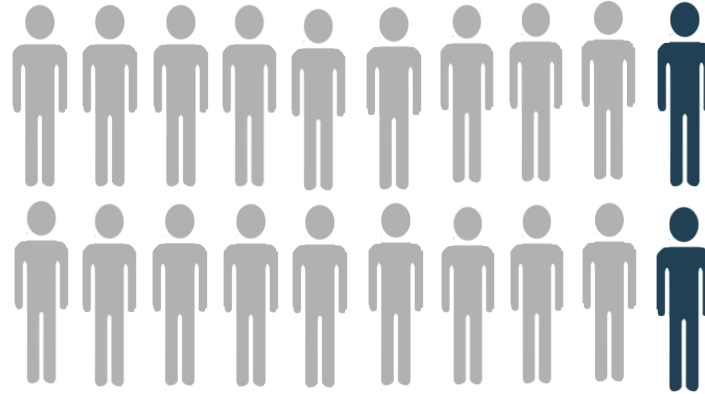


The Michael J. Fox Foundation for Parkinson's Research

# PARTICIPATE IN CLINICAL TRIALS

**THOUGH 88%**

of people with Parkinson's  
say they would be willing  
to participate in a trial



**FEWER  
THAN 25%**  
ever do

Fox Trial Finder was created to help increase the flow of willing participants into the clinical trials that need them, accelerating the Parkinson's drug development process.

**FOX**  **TRIAL FINDER**  
THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH

[foxtrialfinder.michaeljfox.org](http://foxtrialfinder.michaeljfox.org)



# JOIN OUR COMMUNITY

Visit [www.michaeljfox.org](http://www.michaeljfox.org) for the latest on Parkinson's research and care



**Webinars:** Live panel discussions monthly; available on-demand



**Podcasts:** Expert interviews on life with Parkinson's and the latest science



**Ask the MD:** Blogs and videos on Parkinson's research and care by a movement disorder specialist



**Team Fox:** Join grassroots fundraising efforts

[teamfox.org](http://teamfox.org)



**Policy:** Advocate for Parkinson's Policies

[michaeljfox.org/congress](http://michaeljfox.org/congress)



**Buddy Network:** Join the Parkinson's Buddy Network to connect with new friends, share tips and build relationships.

[parkinsonsbuddynetwork.org](http://parkinsonsbuddynetwork.org)



# PARKINSON'S IQ + YOU BAY AREA

The Michael J. Fox Foundation presents

# Parkinson's IQ + YOU

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Education for Empowerment

**Oakland Marriott City Center – December 3, 2022**





**QUESTIONS?**