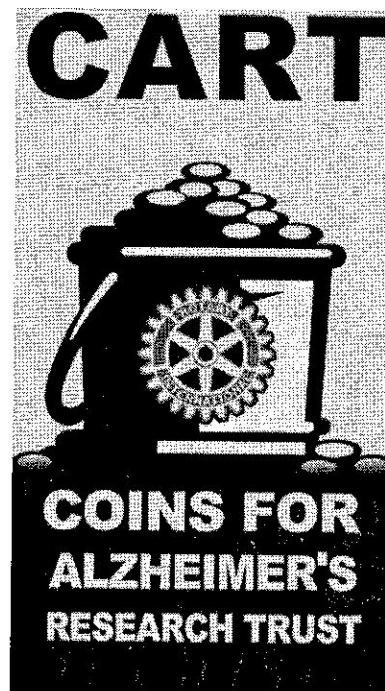


CART

Coins for Alzheimer's Research Trust
A project of The Rotary Club of Sumter, S.C.

CART FUND MANUAL

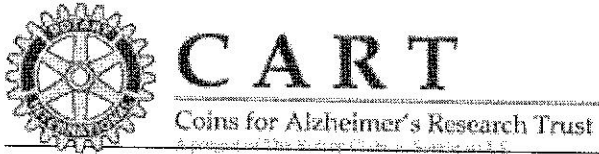
Revision Dated 29 June 2019



The CART Fund

PO Box 1916

Sumter, South Carolina 29151



The CART Fund

Finding the cause of Alzheimer's disease, and then a cure.

Alzheimer's disease is claiming more and more victims worldwide every day. Over 4.4 million Americans are now victims; and medical scientists predict that, unless a prevention/cure is found, that the number of American victims will grow to 16 million within the next 20 years. Further, it is believed that without a cure, one out of every 10 living Americans will ultimately become victims. In addition, it is estimated that 75 percent of the world's victims live outside of the United States.

The CART Fund - Rotarians in 22 Rotary Districts in North Carolina, South Carolina, Georgia, Florida, Tennessee, Virginia, Maryland, and the District of Columbia contribute small amounts weekly to fund research that can bring an end to this terrible disease.

The CART Fund was developed with the idea of accomplishing its goals without Rotary clubs having to conduct special fund raisers and without interfering with other projects of our various Rotary clubs. In order to do this, the concept was developed of asking Rotarians to voluntarily empty their pockets of change or whatever amount they wanted to donate when they attend their weekly Rotary Club meetings. (It is estimated that on any given day in America, \$8.25 billion in loose change passes among our citizens.) This process provides a very simple, painless and effective way to raise much-needed funds for Alzheimer's research.

For information on how your Rotary Club or you as an individual can join the fight against Alzheimer's disease, contact the CART Board by email at info@cartfund.org.

How can my club participate in CART?

1. First, adopt CART as an on-going service project for your club. Present the CART program to your club (and/or to your club's Board of Directors). Then ask the club to adopt it.
2. Second, find a "Champion" for CART in your club – someone who believes in the object of the program (finding the cause of, and a cure for Alzheimer's disease) and who will agree to "take charge" of this project.
3. Third, ask the club "Champion" to serve as the coordinator of the CART program within the club (serve as the club's CART Fund Committee Chairperson).

4. Fourth, recruit/appoint a CART Fund Committee within your club, with the following duties/responsibilities:
 - a) Place, or pass, the blue plastic CART buckets at the tables at each Rotary Club weekly meeting.
 - b) Collect the contributions from the blue CART buckets at the end of each weekly meeting.
 - c) Count the contributions each week, record the amount of the contributions, and give the contributions to the Club Treasurer to deposit.
 - d) At the club meeting each week, remind the members (or have the club president/presiding officer remind the members) to “be sure to toss your pocket change into the blue CART buckets” (The club members will have to be reminded each week, or they will tend to ignore or forget to do this.)

Instructions for remitting your Rotary Club's CART Contributions

1. Have your club Treasurer establish a CART account (either a bookkeeping account, or a separate deposit/checking account).
2. Deposit the weekly collections/contributions to your club's account,
3. And then, write a check **at least quarterly** payable to: “**The CART Fund, Inc.**” – and **mail the check to** Your Rotary District's CART Chairperson.

(Each of the participating District's CART Fund Board Member has bank deposit slips for the CART fund's deposit account in Sumter, SC; and will deposit all Rotary club's checks/contributions received from clubs in their Rotary District once each month.)

Be sure your check indicates your club's name, so that your club is properly credited for your contribution. [If you send in a personal check written by a club member or someone else; be sure to write your club name somewhere on the check, so that your club gets credit.]

Please make your club's check payable to: **The CART Fund, Inc.**

For your information - The CART Fund Treasurer is:

ANGUS McDUFFIE
From SUMTER, SC

However, please do NOT mail your club's checks to Angus. [There are over 1,000 clubs participating in CART; and Angus has no way of knowing which Rotary District many of those clubs belong to – and therefore cannot correctly credit your club and District.]

Frequently Asked Questions

Q. How much actually goes to research?

A. Contributions are conservatively invested until grants are awarded. All (100%) of your original donation goes to Alzheimer's research. The small amount of administrative expenses incurred) is paid out of the interest income and a special 501 (c) (3) Support Fund.

Q. How can I find out more about Alzheimer's disease?

A. Numerous web sites have volumes of information on the disease. Try www.ahaf.org, the web site of the American Health Assistance Foundation.

Q. Our club is in one of the Rotary Districts participating in CART, but we have not been participating. What can we do to get started?

*A. While the 22 Districts have agreed to participate, the word is slow filtering down to some clubs. Getting started is **EASY**. Explain the CART program to the club. In most areas, a CART spokesman can give a kickoff program. Pass a collection plate through the club meeting. (We will be glad to send you CART buckets to pass). Quarterly, have the club treasurer mail a check for the collected funds to the District's CART Chair.*

Q. This is a great project. Can Rotary Clubs not in one of the project's CART districts participate?

A. Of course (like a Rotary project would turn down a donation?). In fact, several clubs in Kentucky, Illinois, Idaho, New York, California, Maryland and Texas have participated in the past. Send your collected funds to: CART Treasurer, PO Box 1916, Sumter, SC 29151.

Q. I'm not a Rotarian but this is something in which I would like to participate. Can I?

A. Of course! Send your donation to: CART Treasurer, PO Box 1916, Sumter, SC 29151 or make an on line donation through the CART Fund website: www.cartfund.org

If you would like to become a Rotarian, visit www.rotary.org.

Q. Does a donation to CART help me become a Rotary Paul Harris Fellow?

A. Unfortunately, no. The CART Fund is a grass roots effort affiliated with Rotary International, but it is not a RI controlled or managed program.

Contact information for the CART Board Members can be found in the most current CART Fund Functional Picture Directory.

The History of the CART Fund

In October 1995, the Sumter, South Carolina (USA), Rotary Club initiated the effort to prove CART works by conducting an eight month testing program, which was highly successful. **In July of 1996** Rotary District 7770 in South Carolina adopted CART as a project.

In January 1999, the American Federation for Aging Research (AFAR) very generously agreed to provide their expertise in assisting with the grant evaluation and selection process. Their valued assistance has continued primarily by recruiting some of the nation's top scientists in Alzheimer's disease research to serve as a peer advisory group to review all grant applications.

In April of 1999, the first grant of \$100,000.00 was made to Emory University's Alzheimer's Research Center (under the leadership of Dr. Allan Levey, M.D., PhD).

In the 18 months from January 1999 until June 2000, 10 additional Rotary districts in the Carolinas and Georgia adopted CART as a project. The first Board of Directors meeting was held in November 2000, bylaws were adopted and PDG Bill Clark of D-7750 was elected the first president of the Board.

In May of 2001, a \$250,000 grant was made to Case Western Reserve University's Alzheimer's Research Department (Dr. Karl Herrup, Ph.D and Dr. Gary Landreth, PhD), a two-year grant.

In April of 2002, Johns Hopkins School of Medicine (Dr. Philip C. Wong, PhD) received the third grant in the amount of \$250,000.

In April of 2003, CART's fourth grant in the amount of \$250,000 was awarded to the University of Pennsylvania School of Medicine (Dr. John Trojanowski, M.D., PhD).

In July of 2003, CART Treasurer Roger Ackerman announced that the Fund had exceeded \$1 million in receipts.

In May of 2004, The University of Connecticut Health Center (Dr. Robert Reenan, Ph.D) was announced as the recipient of the fifth grant, in the amount of \$250,000.

In May of 2005, The University of California at Los Angeles (UCLA) (Dr. Gary Small, M.D.) was awarded the sixth grant, also in the amount of \$250,000.

In May of 2006, The University of Texas, Medical Branch (Dr. Claudio Soto, PhD), was awarded the seventh grant, for \$250,000.

In May of 2007, The Mayo Clinic College of Medicine – Jacksonville (Dr. Todd E. Golde, M.D., Ph.D), was awarded the eighth grant, for \$250,000.

In May of 2007, CART Treasurer Roger Ackerman announced that the Fund had exceeded \$2 million in receipts.

In May of 2008, The Cleveland Clinic (Dr. Sanjay Pimplikar, PhD) was awarded the ninth grant, for \$250,000.

In May of 2008, The University of Alabama – Birmingham (UAB) (Dr. David Sweatt, PhD), was awarded the tenth grant, for \$200,000. This marked the first time that a second grant was awarded in the same year.

In May of 2009, The Mayo Clinic – Jacksonville (Dr. Malcom Leissring, PhD), was awarded the eleventh grant, for \$200,000.

In May of 2009, The University of Kentucky (Dr. Harry LeVine, PhD) was awarded the twelfth grant for 2009, for \$250,000.

In April, 2010, The CART Fund Assistant Treasurer, Roger Ackerman, announced that total contributions to CART to date have exceeded \$3,000,000.

In May of 2010, contributions to The CART Fund were down, due to the recession; but for the first time three (but smaller) grants were awarded. The University of Kentucky (Dr. Paul Murphy, M.D.) was awarded the thirteenth grant, for \$200,000.

In May of 2010, The University of Wisconsin-Madison (Dr. Luigi Puglieli, M.D., PhD) was awarded the fourteenth grant, for \$150,000.

In May of 2010, The University of Pennsylvania (Dr. Kurt Brunden, Ph.D.) was awarded the fifteenth grant, for \$50,000 (a one-year pilot grant)

In May of 2011, The University of Pennsylvania (Dr. Kurt Brunden, Ph.D.) was awarded the sixteenth grant, for \$250,000 (after the previous year's pilot grant produced promising results).

In May of 2011, Case Western Reserve University (Cleveland, OH) (Dr. Gary Landreth, Ph.D) was awarded the seventeenth grant, for \$150,000. (Dr. Landreth was the recipient of the 2nd CART grant in 2001. He is the first research scientist to receive a second full grant.)

In May of 2011, Massachusetts General Hospital (Harvard Medical School) (Dr. Brad Hyman, M.D., PhD) was awarded the eighteenth grant – a \$50,000 one-year pilot grant.

In May of 2012, Cedars-Sinai Medical Center, Los Angeles (Dr. Maya Koronyo-Hamaoui, PhD) was awarded the nineteenth grant, for \$250,000.

In May of 2012, The University of Washington, Seattle (Dr. Valerie Daggett, PhD) was awarded the twentieth grant, for \$150,000.

In May of 2019, the first total research grants award of \$1 million in a single year was reached.

CART Grant Awards			
Year	Names	Institute	Grant Amount
1999	Allan I. Levey, M.D. Ph.D. and Jim Lah	Emory University	\$100,000.00

2001	Karl Herrup, Ph.D. and Gary Landreth	Case Western Reserve University	\$250,000.00
2002	Philip C. Wong, Ph.D. and Donald Price	Johns Hopkins University	\$250,000.00
2003	John Q. Trojanowski, M.D. Ph.D.	University of Pennsylvania	\$250,000.00
2004	Robert Reenan, Ph.D.	University of Connecticut Health Science Center	\$250,000.00
2005	Gary Small, M.D.	University of California, Los Angeles	\$250,000.00
2006	Claudio Soto, Ph.D.	University of Texas Medical Branch	\$250,000.00
2007	Todd E. Golde, M.D., Ph.D.	Mayo Clinic Jacksonville	\$250,000.00
2008	Sanjay W. Pimplikar, Ph.D.	The Cleveland Clinic	\$250,000.00
2008	J. David Sweatt, Ph.D.	The University of Alabama-Birmingham Medical Center	\$200,000.00
2009	Harry LeVine.III, Ph.D.	University of Kentucky	\$250,000.00
2009	Malcolm A. Leissring Ph.D.	Mayo Clinic, Jacksonville, FL	\$200,000.00
2010	Paul Murphy M.D.	University of Kentucky	\$250,000.00
2010	Luigi Puglielli M.D., Ph.D.	University of Wisconsin	\$100,000.00
2010	Kurt Burnden Ph.D.	Pennsylvania State University	\$50,000.00
2011	Kurt Burnden Ph.D.	Pennsylvania State University	\$250,000.00
2011	Gary Landreth Ph.D.	Case Western – Reserve	\$100,000.00
2011	Brad Hyman M.D., Ph.D.	Massachusetts General Hospital – Boston	\$50,000.00
2012	Maya Koronyo-Hamaoui Ph.D.	Cedars-Sinai Medical Center, Los Angeles	\$250,000.00
2012	Valerie Daggett Ph.D.	University of Washington, Seattle	\$100,000.00
2013	Beth Stevens Ph.D.	Children’s Hospital Boston; Harvard Medical	\$250,000.00
2013	Bruce Lamb Ph.D.	Lerner Research Institute; Cleveland Clinic Foundation	\$100,000.00
2014	Nigel Cairns Ph.D.	Washington University at St Louis, MO	\$250,000.00
2014	Tsuneya Ikezu M.D., Ph.D.	Boston University, Boston, MA	\$100,000.00
2014	Ben Bahr Ph.D.	University of North Carolina Pembroke	\$100,000.00
2014	Chuanhai Cao MA, Ph.D.	University of South Florida	\$50,000.00
2015	Wenjie Luo Ph.D.	Weill Cornell Medical College, New York City, NY	\$100,000.00
2015	Yong Tae (Tony) Kim Ph.D.	Georgia Institute of Technology, Atlanta, GA	\$100,000.00
2015	Erik Musiek Ph.D.	Washington University at St Louis, MO	\$250,000.00
2016	Thomas J. Anastasio Ph.D.	University of Illinois, Urbana-Champaign, IL	\$50,000.00
2016	Gabriela Chiosis Ph.D.	Memorial Sloan Kettering Cancer Center, New York, NY	\$50,000.00
2016	Yueming Li Ph.D.	Memorial Sloan Kettering Cancer Center, New York, NY	\$250,000.00
2016	Chihiro Sato Ph.D.	Washington University at St Louis, MO	\$125,000.00
2016	Frank R. Sharp M.D.	University of California, Davis, CA	\$125,000.00
2017	Christelle Anacleto Ph.D.	University of Massachusetts Med School, Worcester, MA	\$250,000.00
2017	Michael Karin Ph.D.	University of California, San Diego, CA	\$150,000.00
2017	Tsuneya Ikezu M.D., Ph.D.	Boston University, Boston, MA	\$100,000.00
2017	Philip Copenhaver Ph.D.	Oregon Health and Science University, Portland, OR	\$75,000.00
2017	Tong Li Ph.D.	Johns Hopkins School of Medicine, Baltimore, MD	\$75,000.00
2017	Claudio Torres, Ph.D.	Drexel University Coll of Medicine, Philadelphia, PA	\$50,000.00
2018	Terrence Town, PhD	University of Southern California, Los Angeles, CA	\$250,000.00
2018	Nicola Allen, PhD	Salk Institute, La Jolla, CA	\$112,500.00
2018	Keith Vossel, MD	University of Minnesota, Minneapolis, MN	\$112,500.00
2018	Brian Bacskai, PhD	Harvard University, Massachusetts General Hospital, Charlestown, MA	\$112,500.00
2018	Carl Wagner, PhD	Arizona State University, Phoenix, AZ	\$112,500.00
2019	John Cirrito, PhD	Washington University at St Louis, MO	\$250,000.00
2019	Levi Wood, PhD	Georgia Institute of Technology, Atlanta, GA	\$187,500.00
2019	John Fryer, PhD	Mayo Clinic, Jacksonville, FL	\$187,500.00

2019	Mark Albers, MD, PhD	MassGeneral Institute for Neurodegenerative Disease. Charlestown, MA	\$187,500.00
2019	Michael Kahn Ph.D.	City of Hope, Duarte, CA	\$187,500.00
Total			\$8,200,000.00

The CART Grants Process

Soliciting Applications, and Awarding the Grants

The CART grants committee and the CART Treasurer recruit a Selection Committee composed of three nationally recognized researchers in AD (Alzheimer's disease) who serve as a peer review committee for the LOI's.

The grant(s) availability is announced through the **American Federation for Aging Research (AFAR)** via their website; and also via a mailing to about 50 of the most prominent Aging/Alzheimer's Research Centers in the USA.

Interested researchers are invited to submit a Letter of Intent (LOI) for their proposed research project (LOI's are limited to 3 pages and must be submitted electronically).

The LOI's are sent to the three researchers on the selection committee. Each member of the committee independently selects proposals for the final list for consideration. The Grants Coordinator notifies all applicants of the actions of the selection committee (notice is given of who is selected as a finalist, and who is not).

The finalists are sent a full proposal form to complete and return (4 hard copies are required to be submitted). The full proposal form may be up to 20 pages in length.

Each of the three members of the selection committee receives and reviews the full applications. They then confer by phone to select the top three finalists, in order.

A phone conference is then held with the three selection committee members and the Executive Committee of the Executive Board of The CART Fund, Inc. at which time the committee recommendations are given. The Executive Committee then acts upon the selection committee's recommendations and selects the final (depending on the available funds) grant recipients.

All applicants are then notified of the Board's actions; and the grant recipients are invited to attend the Annual CART Board Meeting, to make a presentation about their research project, and to receive their grant.

2019 CART Grants



Dr. John Cirrito

The Roger Ackerman Grant - \$250,000 – Dr. John Cirrito, PhD, Washington University School of Medicine, St Louis, MO, “Interdependent A β and α -synuclein clearance pathways”

CART Research Goal - Research into the interdependence of amyloid Beta and louie bodies and their impact on Alzheimer’s, dementia and Parkinson’s Disease.



Dr. Levi Wood

Grant - \$187,500 - Dr. Levi Wood, PhD, Georgia Institute of Technology, Atlanta, GA, “Controlling gene expression patterns in Alzheimer’s disease that enhance learning, cell survival, and immunity using precise sensory stimulation”

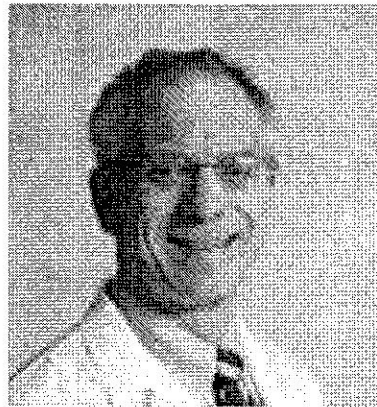
CART Research Goal – Research into non-invasive light stimulus and its ability to create new brain pathways.



Dr. John Fryer

Grant - \$187,500 - Dr. John Fryer, PhD, Mayo Clinic, Jacksonville, FL, "microglial lipid signaling in Alzheimer's disease pathogenesis"

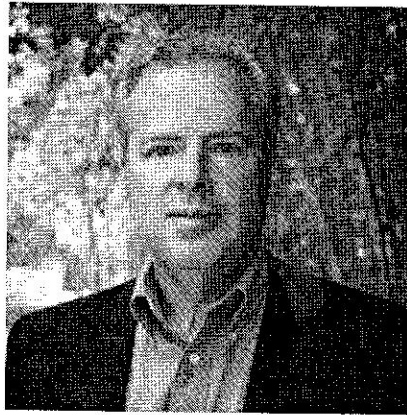
CART Research Goal – Research into the immunoresponse process and APOE4 genes.



Dr. Mark Albers

Grant- \$187,500 - Dr. Mark Albers, MD, PhD, Massachusetts Institute of Neurodegenerative Disease, Charlestown, MA, "Targeting Neuroinflammation and Neuronal Death in Alzheimer's Disease by Repurposing FDA Approved Drugs"

CART Research Goal – Research into Neuron death prevention using currently FDA approved drugs to inhibit inflammation.



Dr. Michael Kahn

Grant - \$187,500 - Dr. Michael Khan, PhD, City of Hope, Beckman Research Institute, Duarte, CA, "Pharmacologic Promotion of Neurogenesis to Treat AD-associated Cognitive Deficits"

CART Research Goal – Research into brain cell regeneration using neurogenesis drugs.