BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.

Follow this format for each person. DO NOT EXCEED FIVE PAGES.

NAME: Korf, Bruce

eRA COMMONS USER NAME (agency login):

POSITION TITLE: Professor and Chair, Department of Genetics

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Cornell University, Ithaca, NY	AB	06/1974	Genetics
Rockefeller University, New York, NY	PHD	05/1979	Genetics and Cell Biology
Cornell University Medical College, New York, NY	MD	05/1980	
Children's Hospital, Boston, Boston, MA	Resident	06/1982	Pediatrics Residency
Harvard Medical School Genetics Training Program, Boston, MA	Postdoctoral Fellow	06/1985	Medical Genetics Fellowship
Harvard-Longwood Neurology Training Program, Boston, MA	Resident	06/1985	Neurology residency (child neurology)

A. PERSONAL STATEMENT

I serve as chair of the Department of Genetics, director of the Heflin Center for Genomic Sciences at UAB, and co-director of the UAB-HudsonAlpha Center for Genomic Medicine. The Heflin Center provides core genomics laboratory services to members of the UAB Comprehensive Cancer Center, including genomic sequencing and bioinformatics support. My research is focused on diagnosis and treatment of neurofibromatosis. The UAB Medical Genomics Laboratory in our department provides genetic testing for all forms of neurofibromatosis and has identified a new gene that leads to schwannomatosis in some patients. I serve as PI of the Department of Defense-funded NF Clinical Trials Consortium, which conducts clinical trials for all forms of neurofibromatosis. I am also PI on a project aimed at development of mouse models that incorporate human NF1 mutations to enable development of new therapeutic approaches to this disorder.

1. Piotrowski A, Xie J, Liu YF, Poplawski AB, Gomes AR, et al. Germline loss-of-function mutations in LZTR1 predispose to an inherited disorder of multiple schwannomas. Nat Genet. 2014 Feb;46(2):182-7. PubMed PMID: 24362817; PubMed Central PMCID: PMC4352302.
2. Weiss B, Widemann BC, Wolters P, Dombi E, Vinks AA, et al. Sirolimus for non-progressive NF1-associated plexiform neurofibromas: an NF clinical trials consortium phase II study. Pediatr Blood Cancer. 2014 Jun;61(6):982-6. PubMed PMID: 24851266.
3. Weiss B, Widemann BC, Wolters P, Dombi E, Vinks A, et al. Sirolimus for progressive neurofibromatosis type 1-associated plexiform neurofibromas: a Neurofibromatosis Clinical Trials Consortium phase II study. Neuro Oncol. 2015 Apr;17(4):596-603. PubMed PMID: 25314964.
4. Blakeley J, Schreck KC, Evans DG, Korf BR, Zagzag D, et al. Clinical response to bevacizumab in schwannomatosis. Neurology. 2014 Nov 18;83(21):1986-7. PubMed PMID:

25339217; PubMed Central PMCID: PMC4248457.

B. POSITIONS AND HONORS

Positions and Employment

1985 - 1986	Instructor in Neurology, Harvard Medical School, Boston, MA
1986 - 1993	Assistant Professor of Neurology, Harvard Medical School, Boston, MA
1986 - 1999	Director, Clinical Genetics Program, Children's Hospital, Boston, Boston, MA
1993 - 2009	Associate Professor of Neurology (Pediatrics), Harvard Medical School, Boston, MA
1998 - 1999	Associate Chief, Division of Genetics, Children's Hospital, Bostonq, Boston, MA
1999 - 2002	Medical Director, Harvard-Partners Center for Genetics and Genomics, Boston, MA
2003 -	Wayne H. and Sara Crews Finley Chair of Medical Genetics, University of Alabama at Birmingham, Birmingham, AL
2003 -	Professor and Chair, Department of Genetics, University of Alabama at Birmingham, Birmingham, AL
2006 -	Director, Heflin Center for Genomic Sciences, University of Alabama at Birmingham, Birmingham, AL
2014 -	Co-Director, UAB-HudsonAlpha Center for Genomic Medicine, University of Alabama at Birmingham, Birmingham, AL

Other Experience and Professional Memberships

1988 -	Chair, Medical Advisory Committee, Children's Tumor Foundation
1996 - 2002	Member, Board of Directors, American College of Medical Genetics
1998 - 2014	Associate Editor, Education, Genetics in Medicine
1999 - 2002	Vice President, Clinical Genetics, American College of Medical Genetics
1999 - 2006	Member, Liaison Committee on Medical Education
2002 - 2004	President, Association of Professors of Human and Medical Genetics
2002 - 2005	Member, Editorial Board, American Journal of Human Genetics
2003 - 2006	Member, Board of Directors, American Society of Human Genetics
2003 - 2008	Member, Board of Scientific Counselors, National Cancer Institute
2009 - 2011	President, American College of Medical Genetics
2009 - 2013	Member, Board of Scientific Counselors, National Human Genome Research Institute
2012 -	President, ACMG Foundation for Genetic and Genomic Medicine
2012 - 2013	Member, Blue Ribbon Panel on Intramural Research Program, National Human Genome Research Institute

Honors

1983	von Meyer Traveling Fellowship, Children's Hospital, Boston
1989	von Recklinghausen Award, National Neurofibromatosis Foundation
1991	President's Award, National Neurofibromatosis Foundation, Massachusetts Chapter
1993	Courtemanche Award, National Neurofibromatosis Foundation
1993	Howard Fox Guest Lecturer, NYU Medical Center
1994	Steve and Lottie Walker Foundation Lectureship, UCLA
1997	Carol Farb Lecture, MD Anderson Hospital, Houston
2000	Louis K. Zeller Lecture, Youngstown, OH
2002	Stanley Meyer Lecture, Penn State University
2003	Bradford Dean Dixon Memorial Lecture, Children's Hospital of Alabama
2004	James Pittman Lecture, UAB Alumni Association

2005	Neuhauser Lecture, Society of Pediatric Radiology
2007	Medical Honoree, Children's Tumor Foundation, NE Chapter
2009	ASHG Award for Excellence in Genetics Education, American Society of Human Genetics
2013	Medical Honoree, Children's Tumor Foundation
2014	AAAS Fellow, American Association for the Advancement of Science

C. Contribution to Science

1. I have a career-long involvement in the diagnosis and management of neurofibromatosis. I have been integrally involved in genetic testing for all forms of NF and establishing genotype-phenotype correlations. I am medical director of the UAB Medical Genomics Laboratory, which characterized the phenotype of Legius syndrome associated with SPRED1 mutation in a large cohort of patients and also identified LZTR1 as playing a role in schwannomatosis. I am PI of the NF Clinical Trials Consortium, and have overseen the implementation of trials for plexiform neurofibroma, glioma, learning disability, and vestibular schwannoma in these disorders.
   a. Dombi E, Ardern-Holmes SL, Babovic-Vuksanovic D, Barker FG, Connor S, et al. Recommendations for imaging tumor response in neurofibromatosis clinical trials. Neurology. 2013 Nov 19;81(21 Suppl 1):S33-40. PubMed PMID: 24249804; PubMed Central PMCID: PMC3908340.
   b. Piotrowski A, Xie J, Liu YF, Poplawski AB, Gomes AR, et al. Germline loss-of-function mutations in LZTR1 predispose to an inherited disorder of multiple schwannomas. Nat Genet. 2014 Feb;46(2):182-7. PubMed PMID: 24362817; PubMed Central PMCID: PMC4352302.
   c. Widemann BC, Acosta MT, Ammoun S, Belzberg AJ, Bernards A, et al. CTF meeting 2012: Translation of the basic understanding of the biology and genetics of NF1, NF2, and schwannomatosis toward the development of effective therapies. Am J Med Genet A. 2014 Mar;164A(3):563-78. PubMed PMID: 24443315; PubMed Central PMCID: PMC4150212.
   d. Weiss B, Widemann BC, Wolters P, Dombi E, Vinks AA, et al. Sirolimus for non-progressive NF1-associated plexiform neurofibromas: an NF clinical trials consortium phase II study. Pediatr Blood Cancer. 2014 Jun;61(6):982-6. PubMed PMID: 24851266.
2. I have played a visible role nationally and internationally in genetics and genomics education, and in the integration of genetics and genomics into medical practice. I served as president of the American College of Medical Genetics and Genomics, and as a member of the committee on incidental findings from genomic sequencing. I also chaired the committee of the Intersociety Coordinating Committee of NHGRI that formulated competences in genomic medicine for clinicians. I have chaired three national conferences on medical genetics professional education.
   a. Korf BR. Genomic medicine: educational challenges. Mol Genet Genomic Med. 2013 Sep;1(3):119-22. PubMed PMID: 24498609; PubMed Central PMCID: PMC3865578.
   b. Korf BR. Integration of genomics into medical practice. Discov Med. 2013 Nov;16(89):241-8. PubMed PMID: 24229741.
   c. Kaye C, Korf B. Genetic literacy and competency. Pediatrics. 2013 Dec;132(Suppl 3):S224-30. PubMed PMID: 24298131.
   d. Korf BR. The medical genetics residency milestones. J Grad Med Educ. 2014 Mar;6(1 Suppl 1):87-90. PubMed PMID: 24701269; PubMed Central PMCID: PMC3966601.

Complete List of Published Work in My Bibliography:
http://www.ncbi.nlm.nih.gov/myncbi/bruce.korf.1/bibliography/40046569/public/?sort=date&direction=ascending

D. RESEARCH SUPPORT

Ongoing Research Support

W81XWH-12-1-0155, Department of Defense 2012/05/05-2017/05/14
Bruce Korf (PI)
The NF Clinical Trials Consortium
This is a multicenter clinical trials award intended to perform clinical trial studies in patients with NF. UAB is a patient recruitment site, but also serves as the coordinating center for the consortium.
Role: PI

Y1Award ID 2013-01-029 , Childeren's Tumor Foundation 2013/07/01-2015/06/30
Korf, Bruce (PI)
Characterizing Novel NF-1 Mouse Models and Developing New Therapeutic Interventions
I serve as mentor for Dr. Kairong Li in this postdoctoral training award. The goal is to develop new mouse models that incorporate human NF1 mutations to use to test new therapeutics.
Role: PI