

Robert S. Hodges

Biography

Dr. Hodges completed his doctorate in Biochemistry at the University of Alberta, Edmonton, Alberta in 1971 where he trained as a protein chemist. He spent three postdoctoral years in the laboratory of Dr. R.B. Merrifield at the Rockefeller University, New York, NY, to expand his training in peptide chemistry and solid-phase peptide synthesis. He started his career at the University of Alberta and was promoted to Professor of Biochemistry in 1984. While at the University of Alberta he became a founding member of the Medical Research Council of Canada Group in Protein Structure and Function, Director of the Alberta Peptide Institute, and Network Leader of the Protein Engineering Network of Centres of Excellence, a national network. In 2000 he accepted a position at the University of Colorado Health Sciences Center as Professor of Biochemistry and Molecular Genetics, Director of the Program in Structural Biology and Biophysics and John Stewart Endowed Chair in Peptide Chemistry.

Dr. Hodges has received many awards among which are the Distinguished MRC Scientist Award (considered to be the most prestigious of such Awards in Canada), the Boehringer-Mannheim Award from the Canadian Society of Biochemistry and Molecular Biology (in recognition of a record of outstanding achievement in research in the field of biochemistry and/or molecular biology undertaken in Canada) and most recently the Vincent du Vigneaud Award from the American Peptide Society (for outstanding achievements in peptide research).

His research interests are multi-disciplinary and presently involve, the development of cyclic β -sheet and α -helical antimicrobial peptides to prevent Gram-negative and Gram-positive bacterial infections; development of synthetic peptide vaccines and antibody therapeutics including a universal influenza A vaccine and consensus sequence vaccine against *Pseudomonas aeruginosa*; protein folding and stability and HPLC/CE separation methodology development.

简历

Robert S. Hodges 博士于 1971 年在加拿大阿尔伯塔大学获得生物化学博士学位。之后三年在纽约洛克菲勒大学师从 **R.B. Merrifield** 博士开展博士后工作，主要研究多肽化学和固相多肽合成。之后任教于阿尔伯塔大学并于 1984 年提升为教授，在此期间，成为蛋白质结构与功能医学研究委员会加拿大分会创始成员之一，阿尔伯塔肽研究所所长，加拿大蛋白质工程网络中心负责人。2000 年起，任科罗拉多大学保健科学中心生化和分子遗传学教授，结构生物学与生物物理学主任，约翰·斯图尔特肽化学协会主席。

Hodges 博士曾获多个奖项，其中包括：MRC 杰出科学家奖(加拿大最负盛名的奖项)，加拿大生化与分子生物学协会 Boehringer-Mannheim 奖(加拿大生化和/或分子生物学领域杰出成就奖)，以及最近的美国肽协会 Vincent du Vigneaud 奖（肽研究领域杰出成就奖）。

Hodges 博士研究领域包括：由卷曲的 β -折叠和 α -螺旋结构组成的抗菌肽，此活性肽可同时抑制革兰氏阳性和阴性菌生长；合成肽疫苗与抗体，包括广谱流感疫苗 A 和抗绿脓杆菌的共有序列疫苗，蛋白质折叠及其稳定性，及高效液相色谱/毛细管电泳分离方法的发展。