

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format on preceding page for each person. **DO NOT EXCEED FOUR PAGES.**

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|--|---------------------------|--|-----------------------|
| NAME | | POSITION TITLE | |
| William J. Bremner, M.D., Ph.D. | | Professor and Chairman, Department of Medicine, University of Washington, Seattle, Washington | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.) | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | YEAR(s) | FIELD OF STUDY |
| Harvard University, Cambridge, MA | B.A. | 1964 | Philosophy and Gov't. |
| University of Washington, Seattle, WA | M.D. | 1969 | Medicine |
| Monash University, Melbourne, Australia | Ph.D. | 1977 | Physiology/Medicine |

A. Positions and Honors:**Professional Experience**

- 1969-70 Medical Internship, Vanderbilt University Hospital, Nashville, TN
 1970-72 Internal Medicine Residency, University of Washington (UW), as USPHS Commissioned Officer
 1972-74 Senior Fellow in Medicine (Endocrinology), UW School of Medicine, Seattle, WA
 1974-77 Senior Research Officer of Australian National Health and Medical Research Council, in Medical Research Center, Prince Henry's Hospital, Melbourne, Australia (Director, Dr. H.G. Burger)
 1977-79 Acting Assistant Professor of Medicine and of Obstetrics and Gynecology, UW School of Med.
 1979-82 Assistant Professor of Medicine, UW School of Medicine, Seattle, WA
 1979-88 Co-Director, Population Center for Research in Reproduction, Seattle, WA
 1979-87 Chief of Endocrinology, Seattle Veterans Affairs Medical Center, Seattle, WA
 1982-87 Associate Professor of Medicine, UW School of Medicine, Seattle, WA
 1987- Professor, Department of Medicine, UW School of Medicine, Seattle, WA
 1987-98 Chief, Medical Service, Seattle Veterans Affairs Medical Center, Seattle, WA
 1988- Director, Population Center for Research in Reproduction, Seattle, WA (renamed Center for Research in Reproduction and Contraception in 2002)
 1998- Robert G. Petersdorf Professor and Chairman, Department of Medicine, UW School of Medicine, Seattle, WA

Honors and Awards

Alpha Omega Alpha Medical Honorary; Wyeth Award, Annual Mtg of the Pacific Coast Fertility Society, 1974; Member, Editorial Board, Jnl. of Clinical Endocrinol. and Metab., 1984-88; Associate Editor, International Jnl. of Andrology, 1983-87; Elected to American Society for Clinical Investigation; Elected to the Association of American Physicians; Henry Christian Award for Excellence in Research, Am. Fed. for Clin. Research (with Dr. C. Bagatell), 1991; Distinguished Alumnus Award, University of Washington School of Medicine, 2003

Consultant Activities (Recent)

Steering Comm., World Health Organiz. Special Programme on Research in Human Reproduction, 1993-
 Medical Research Council of Great Britain, Consultant Concerning the MRC Unit for Reproductive Biology, Edinburgh, 1996-1997

Consultant on the Future Mission of the Center for Population Research, NIH, Bethesda, 1996-98
 United States Olympic Comm., Expert Advisory Panel on Steroid Abuse, 1997-98
 External Scientific Advisory Comm., UC San Francisco School of Med., Reprod. Sci. Program, 1997-99
 Chairman, External Review Comm., Reproductive Sci. Program, U of Michigan, 1997-98
 Expert Advisory Committee, Agency for International Development/CONRAD Program, 1999-
 Consultant, Institute of Medicine, 2000
 National Institutes of Health, NICHD, for report on "Reproduction in the 21st Century", 2000

Invited Lectureships (Recent)

Invited Lecturer, 10th World Congress on Human Reproduction, Salvador, Bahia, Brazil, May 1999.
 Invited Plenary Lecturer, 3rd International Inhibin/Activin Mtg., Northwestern Univ., Evanston, IL, May 1999.

Dept. of Obstetrics and Gynecology Grand Rounds, University of Washington School of Medicine, Sept. 1999.
 Invited Plenary Lecturer, 15th Pan American Congress of Endocrinology, Bariloche, Argentina, May 2000.
 Plenary Lecturer, Association of Professors of Medicine Fall Symposium, October 2000.
 Invited Lecturer, Serono Symposium on Reproduction, Santiago, Chile, November 2000.
 Invited Keynote Speaker, NIH/Serono Testis Workshop, February 2001.
 Invited Symposium Lecturer, Endocrine Society, Denver, CO, June 2001.
 Gordon Meiklejohn Visiting Professor, Department of Medicine, University of Colorado, October 2001.
 Invited Speaker, 11th Int'l Congr. on Hormonal Steroids and Hormones and Cancer, Fukuoka, Japan, Oct. 2002
 Invited Speaker, Western Student Medical Research Forum, Monterey, CA, January 2003.
 Invited Speaker, Prostatic Disease and Testosterone Replacement Therapy, February 2003.
 Invited Speaker, Institute of Medicine Workshop on Testosterone Replacement Therapy, March 2003
 Organon and Schering, Male Contraception Expert Meeting, Prague, April 2003.
 Invited Speaker, Institute of Medicine, New Frontiers in Contraceptive Research Int'l Symp., July 2003.
 Chair of Session, 3rd Int'l Symp. on Testosterone: Action, Deficiency, Substitution; Bavaria, Germany, Sept. '03.
 Chair of Session, Androgen Action, 7th Summit Meeting on Male Hormonal Contraception; Schloss Elmau, Bavaria, Germany, September 2003.
 Invited Speaker, Phoenix Conference on Longevity Health Sciences, KLRI Symposium Segment, Testosterone Metabolism, Actions, and Effects on Aging; Phoenix, AZ, December 2003.
 Invited Speaker, Updates in Infertility Treatment, Session V, Marco Island, FL, January 2004.
 Host, UW Medicine Bellingham Road Trip, March 2004.
 Chair, Symposium I, Drug Discovery and Development, Amer. Society of Andrology 2004 Ann mtg., April 2004.
 Chair, Plenary Session V, Association of Professors in Medicine Fall Symposium, October 2004.

B. Selected Recent Publications

Herbst KL, Anawalt BD, Amory JK, Bremner WJ. Acyline: the first study in humans of a potent, new gonadotropin-releasing hormone antagonist. *J Clin Endoc Metab* 87(7):3215-20, 2002.
 Cherrier MM, Anawalt BD, Herbst KL, Amory JK, Craft S, Matsumoto AM, Bremner WJ. Cognitive effects of short-term manipulation of serum sex steroids in healthy young men. *J Clin Endocr Met* 87(7):3090-6, 2002.
 Feldman HA, Longcope C, Derby CA, Johannes CB, Araujo AB, Coviello AD, Bremner WF, McKinlay JB. Age trends in the level of serum testosterone and other hormones in middle-aged men: longitudinal results from the Massachusetts Male Aging Study. *J Clin Endoc Metab* 87(2):589-98, 2002.
 Merigiola MC, Bremner WJ, Costantino A, Bertaccini A, Morselli-Labate AM, Hübler D, Kaufmann G, Oettel M and Flamigni C. Twenty-one day administration of dienogest reversibly suppresses gonadotropins and testosterone in normal men. *J Clin Endocrinol Metab* 87(5): 2107-2113, 2002.
 Herbst KL, Anawalt BD, Amory JK, Matsumoto AM and Bremner WJ. The male contraceptive regimen of testosterone and levonorgestrel significantly increases lean mass in healthy young men in 4 weeks, but attenuates a decrease in fat mass induced by testosterone alone. *J Clin Endo Metab* 88(3):1167-73, 2003.
 Herbst KL, Amory JK, Brunzell JD, Chansky HA, Bremner WJ. Testosterone administration to men increases hepatic lipase activity and decreases HDL and LDL size in 3 wk. *Am J Physiol Endocrinol Metab.* 284(6): E1112-8, 2003.
 Merigiola MC, Costantino A, Cerpolini S, Bremner WJ, Huebler D, Morselli-Labate AM, Kirsch B, Bertaccini A, Pelusi C and Pelusi G. Testosterone undecanoate maintains spermatogenic suppression induced by cyproterone acetate plus testosterone undecanoate in normal men. *J Clin Endocrinol Metab* 88(12):5818-26, 2003.
 Houmard BS, Hansen KA, Woodruff TK, Sluss PM, Bremner WJ, Soules MR and Klein NA. Age-related analysis of inhibin A and B relative to the intercycle monotropic FSH rise in normal ovulatory women. *Ann Endocrinol (Paris)* 64(2):86, 2003.
 Amory JK, Watts NB, Easley KA, Sutton PR, Anawalt BD, Matsumoto AM, Bremner WJ and Tenover JL. Exogenous testosterone or testosterone with finasteride increases bone mineral density in older men with low serum testosterone. *J Clin Endocrinol Metab* 89(2):503-10, 2004.
 McLachlan RI, Robertson DM, Pruyers E, Ugoni A, Matsumoto AM, Anawalt BD, Bremner WJ and Merigiola C. Relationship between serum gonadotropins and spermatogenic suppression in men undergoing steroidal contraceptive treatment. *J Clin Endocrinol Metab* 89(1):142-9, 2004.
 Herbst KL, Coviello AD, Page S, Amory JK, Anawalt BD and Bremner WJ. A single dose of the potent gonadotropin-releasing hormone antagonist acyline suppresses gonadotropins and testosterone for 2 weeks in healthy young men. *J Clin Endocrinol Metab* 89(12):5959-65, 2004.

C. Research Support

U54 HD12629-25 (Director)

NIH/NICHD

Specialized Cooperative Centers Program in Reproduction Research Center

Major goals of this Center are to increase our basic and clinical knowledge of reproductive processes in the male.

U54 HD12629 (PI, Project I)

4/1/79 - 3/31/2004

NIH/NICHD

Hormonal Control of Human Spermatogenesis

Major goals: to define the endocrine milieu that is required to maintain normal testicular function in men.

U54 HD42454 (Director)

NIH/NICHD

Cooperative Contraceptive Research Centers

The major goals of this Center are to increase our basic and clinical knowledge of reproductive processes in the male with particular relevance to contraception.

U54 HD42454 (PI, Project I)

NIH/NICHD

Hormonal Contraception and Testicular Function in Men

Major goals: to obtain knowledge that will aid in the development of safe, effective and reversible hormonal contraceptives for men.

TASK ORDER # HHSN27500001 (P.I.)

NIH/NICHD

NICHD Contraceptive Clinical Trials Network (Male Topic Area)

The goals of this contract are to provide written review and analysis of new research protocols generated by NICHD as requested by the NICHD Project Officer, and to provide consultation to the NICHD Project Officer on issues related to contraception and other areas of reproductive health relevant to the development of clinical trials as requested by the NICHD Project Officer.

Organon Protocol 42303 (PI)

Organon, Inc.

5/1/01 – 12/31/02

A phase IIb, open-label, randomized, multicenter trial investigating the efficacy, safety and pharmacokinetics of subcutaneous Org rods combined with intramuscular Org 532 for male contraception

Major goals: to evaluate the efficacy, safety and pharmacokinetics of a combination regimen of a progestagen and testosterone for male contraception.

CFDA # 93.864 (Johns Hopkins University) (PI)

NIH/NICHD flow through funds

4/1/01 – 3/31/03

Relationship Between Intratesticular Testosterone Concentration and Spermatogenesis

Major goals: to understand the relationship between intratesticular T concentration and quantitative sperm production in man. This is a collaborative study with Dr. Jon Jarow at Hopkins.

Merit Review (PI)

Department of Veterans' Affairs Med. Res. Funds

10/1/97 - 9/30/00

Androgen Effects in Men

Major goals: to clarify the mechanism of T action in men and focus on four specific areas of T action: pituitary gonadotropin secretion, lipoprotein levels, behavior and bone metabolism.

CSA-98-231 (PI)

Contraceptive Research and Development Program

11/1/98 - 10/31/00

Effects of a Non-5 α -Reducible Androgen and an Anti-Androgenic Progestin in the Suppression of Primate Spermatogenesis using Androgen-Based Hormonal Contraception Strategies

This study examined the effects of MENT, a non-5 α -reducible androgen; levonorgestrel, a progestin; and cyproterone acetate, and anti-androgenic progestin in hormonal contraceptive regimens using testosterone treatment in a non-human primate model.

CIG-00-53 (PI)

Contraceptive Research and Development Program

7/1/00 – 6/30/02

Assessment of Bimonthly Regimen of Injectable Testosterone Undecanoate and Depot Medroxyprogesterone Acetate for Contraception in Chinese Men

Major goals: to find dose combinations of TU and DMPA in Chinese men that optimize spermatogenic suppression while reducing TU injection frequency. This study was in collaboration with Dr. Y-Qun Gu in Beijing.

CIG-99-36 (PI)

Contraceptive Research and Development Program

6/1/99 – 12/31/01

Comparative Study on LNG Implants plus TU for Male Contraception in Shanghai

Major goals: to test a combination of levonorgestrel implants and testosterone undecanoate in Chinese men. This study was in collaboration with Dr. Gao Er-Sheng at the Shanghai Institute for Planned Parenthood Research.