

Deadline: Abstracts must be received by January 15, 1997; no withdrawals/revisions after February 10, 1997

Person who will receive all correspondence about abstract acceptance and transmit this information to all authors:

Name PIETRO TRAVAGLINI
 Institution INST. OF ENDOCRINE SCIENCES
 Street Address VIA F. SFORZA 35
 City/State/Country 20122-MILANO, ITALY
 Phone +39-2-5464063 Fax +39-2-55195438
 (include country and city code on non-US phone and fax)

AWARDS

The first/presenting author may apply for **only ONE** award listed below and must meet the criteria outlined on the third page to be considered.

- Travel Grant Award
 Glenn Foundation Endocrinology & Aging Award
 MERCK Senior Fellows Award
 Knoll Thyroid Research Clinical Fellowship & Mentor Award
 Name of mentor/training director _____

ABSTRACT CATEGORIES

Choose **only one** format

- Consider for oral presentation
 Poster presentation only

Choose **only one** category

- Basic Science
 Category # _____
 Category Name _____

(Write in **one** Category # (1-26) and name from the list on page 3)

- Clinical Science
 Category # 39
 Category Name PITUITARY

(Write in **one** Category # (27-44) and name from the list on page 3)

PAYMENT INFORMATION

Each abstract must be accompanied by a \$40 NONREFUNDABLE processing fee (US funds only). Abstracts submitted without payment will not be processed. No purchase orders accepted. VISA and MasterCard only credit cards accepted. Checks and money orders should be payable to The Endocrine Society.

Total payment
 @ \$40 per abstract \$ _____
 Check Money order
 VISA MasterCard

4935119003792876

Credit Card # (16 digits)

06/98

Expiration Date

BECK-PECCOZ PAOLO

Cardholder name (print)

Paolo Beck-Peccoz

Signature

UNUSUAL ASSOCIATION OF EUGONADAL CONGENITAL ANOSMIA AND NONFUNCTIONING PITUITARY ADENOMA IN TWO FEMALE BIOVULAR TWINS. P Travaglini*, G Broich¹, A Pizzocaro, M Bonomi, M Farabola², P Beck-Peccoz³, and G Faglia. *Inst. of Endocrine Sciences and Departments of ¹ENT and ²Neuroradiology, University of Milan, Ospedale Maggiore IRCCS and ³Istituto Clinico Humanitas, Via F. Sforza 35, 20122-Milan, Italy.*

In the recent years, the hypothalamic-pituitary-gonadal axis and the olfactory system have been shown to be linked by a protein of the family of adhesion molecules which control the migration of GnRH neurons and olfactory axons into the brain. By investigating the relationship between phenotype and genotype of patients with either Kallmann's syndrome or eugonadal congenital anosmia (CAN), we found two 18-yr-old normally menstruating biovular twins who associated CAN and pituitary adenoma, in the presence of normal karyotype. Olfactory threshold studies indicated in both patients anosmia for pure olfactory substances, such as coffee and chloroform, as well as for odorants also stimulating trigeminal terminations, such as ammonia and menthol. Brain and pituitary MRI showed in both patients lack of olfactory tracts, bulbs and sulci, and the presence of intrasellar pituitary macroadenoma (Ø: >10 mm). Serum LH, FSH, PRL, ACTH, cortisol, TSH, FT4, FT3, GH, and glycoprotein hormone α -subunit were into the normal range both in basal condition and after dynamic testing. Therefore, the pituitary tumor was classified as a nonfunctioning adenoma. In the twins' mother, a marked dysosmia along with hypoplasia of the olfactory tracts, bulbs and sulci, was found, whereas the sella MRI was normal. No abnormalities of the endocrine and olfactory systems were seen in the father and in two siblings.

To our knowledge this is the first report of an association between CAN and nonfunctioning pituitary adenoma. The CAN appears to be maternally inherited, whereas the presence of the pituitary adenoma might be a fortuitous association, though a direct link between the two entities cannot be at present excluded. We are currently actively investigating the molecular bases of this unusual association.

3 key words not in abstract title: _____

FOR OFFICE USE ONLY

Batch # _____
 Check # _____
 Check Date _____
 Issued by _____
 Amount _____
 CC Auth _____
 CC Ref _____
 Ref Amt _____ ES Cx # _____

DISCLOSURE OF DUAL COMMITMENT (DUALITY OF INTEREST)

Abstracts will not be considered without proper completion of this disclosure box. The sponsoring Endocrine Society member is responsible for this information and should sign the form for all authors. This signature verifies that all authors have read the Disclosure Statement on Dual Commitment (Duality of Interest) on page 3 and appropriate disclosures have been made there. I hereby certify that, to the best of my knowledge (**check only one**):

- There is no information to disclose
 Disclosure information pertinent to the abstract is presented on page 3, which I have attached to this form

BECK-PECCOZ Paolo

Paolo Beck-Peccoz