CURRICULUM VITAE ANNA LAUBER-BIASON

1. PERSONAL INFORMATIONS

Name Anna Lauber-Biason
Date of birth June 1st, 1961
Place of Birth Padova, Italy
Marital status Married, 1 son, Matthias born December 13th, 1991
Nationality Swiss and Italian
Address Work: University of Fribourg
Dept. of Endocrinology/metabolism/cardiology, Section of Medicine
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Home: Tomenrain 10b, 8605 Gutenswil, Switzerland

2. EDUCATION

2012-present FAMH (clinical chemistry) candidate. Final exam: Fall 2019
2004 Venia Legendi for Pediatric Endocrinology at the University of Zürich
1992 Specialist in Internal Medicine Subspecialty in Endocrinology and Metabolic Diseases at the University of Ancona, Italy (FMH equivalent)
1987 M.D. degree with honors with dissertation entitled:"*Use of Spironolactone and Ketoconazole in the therapy of hirsutism"* at the University of Padova, Italy

3. WORK EXPERIENCE AND RESPONSABILITIES (incl. 2014-2019)

Feb 2012-present: Full Professor and Chair of Endocrinology at the Department of Medicine, University of Fribourg, Fribourg.

- Project manager of 3 competitively founded research project, 6 academic, 2 technical and 1 administrative employees.

- Clinical endocrinological consultations at the Hopital Fribourgoise (HFR 20%). Main disciplines: Disorders/Differences of Sex Development (DSD), Transgender medicine, Adrenal diseases, Hyperandrogenic states, Thyroid diseases, Pituitary diseases with particular focus on patients in transition childhood-adulthood.

- Coordinator and lecturer module *Endocrinology* ,2nd and 3rd year medical school and biomedical sciences (4.5 ECTS each) 2013-present.

- Vice President of the Section of Medicine of the Faculty of Science and Medicine, University of Fribourg (2016-2018) sections: 1. Finances (also Master Med), 2. Safety

- Delegate for the Section Medicine of the University of Fribourg at the Schweizerische Medizinische Interfakultätskommission (SMIFK/CIMS) (with Raphael Bonvin and Jean-Marie Annoni)

- Biosafety Officer for the Department of Medicine. Creation, implementation and administration of a specific biosafety concept. Liaison with the authorities.

- Consultant as „Diagnostic expert"for the DSD interdisciplinary team at the University Children's Hospital Zurich (6 meetings/year)

- Consultant for the special steroid analytical laboratory at the Division of Clinical Chemistry and Biochemistry and of the molecular genetic analysis of endocrinologically relevant diseases at the University Children's Hospital Zurich

- Swiss representative (with Christa E. Flück, Bern) in the European Cooperation in the field of Scientific and Technical Research (COST) BM1303 Action "*DSDnet: a systematic elucidation of differences of sex development*".

- Member of the Scientific Committee of the International Fund for research on Congenital Adrenal Hyperplasia (IFCAH)

4. GRANTS (2014-2019)

2019-2023 Swiss National Science Foundation Grant number 320030_184807 (CHF 538'606). *Understanding human sex development and its defects: novel approaches* as principal investigator

2016-2019 Swiss national Science Foundation Grant Sinergie (Core) CRSII5_171007/1 (CHF 596'000 out of CHF 1'755'945)
Identification of new factors implicated in abnormal gonadal development in humans. as "Principal investigator" with S. Nef (Geneva) and B. Jegou (Rennes, FR)

2016-2017 Research Pool University of Fribourg (CHF 20'000) *Generating human Sertoli cells from induced pluripotent stem cells* as "Principal investigator"

2015-2018 Swiss National Science Foundation Grant number 320030_160334 (CHF 424'326) *Insights in human sex development: implications for differences of sex development (DSD)* as "Principal Investigator"

2014-2015 Swiss Society for Endocrinology and Diabetology Cohort Study (CHF 50'000) as "Principal Investigator"

5. SUPERVISED ACADEMICS (2014-2019):

Research Assistants

- Monika Meyer-Böni, wissenschaftliche Mitarbeiterin (2004-2015): A."Identification of PAX4 partners involved in beta-cell regeneration processes. "B: "Insights in human sex development". C: "Novel genetic causes of diabetes"
- Sasha Wyss, wissenschaftliche Mitarbeiterin (2014-2017) . A: "Characterization of AKR1C2 isoform 2". B: „Genetic variations of estrogen Receptors in human disease"
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Post-Docs

- Wassim Eid, PostDoc (2012-2016)
  - "Identification of CBX2 novel targets of in human sex development" published in Eid, W., Opitz, L.,Biason-Lauber, A. (2015). Genome-Wide Identification of CBX2 Targets: Insights in the Human Sex Development Network. Mol Endocrinol 29, 247-257

  "Pluripotent human stem cells and their differentiation into Sertoli cells"
- Diane Dumas, Clinical Research Fellow (Feb-Sep 2013). "Endocrine disorders in Fribourg" presented in Dumas D, Fontana E, Ducry J, Richli M, Lauber-Biason A (2013). Thyroid disorders in Fribourg: a 7 year perspective of endocrine patients of Cantonal Hospital. SGED Jahresversammlung Bern 14-15. Nov, Abstr 10

- Helene Savopol Clinical Research Fellow (Feb-Dec 2015). "Gestational Diabetes in Fribourg" presented in Savopol, Fontana E, Ducry J, Richli M, Lauber-Biason A (2016). SGED Jahresversammlung Bern 14-15. Nov
- Daniel Rodrigues Gonzales (Oct 2016-present): Pluripotent human stem cells
- Maria Miletta, PostDoc (Jan2017-Jun2017) "AKR1C splice variants in health and disease"
- Joelle Suillot, Clinical Research Fellow (Aug 2018-Aug 2019) "Epidémiologie des adénomes hypophysaires : une étude rétrospective entre 2010 et 2018 dans le service d'endocrinologie à Fribourg »

PhD Students

- Mariangela Franco, PhD Student (2011-March 2015) "WNT4 and CBX2 in human sex development". Defense March 18th, 2015
- Leila Bouazzi. PhD Student (August 2013-present, defense October 15th, 2018) "CBX2 and FOXL2 in human ovarian development"
- Patrick Sproll, PhD Student (October 2014- Defense July 2018)
  "1. Human testis development: a biological and bioinformatics approach. 2. Creation of CBX2 human knock-out cells using CRISP-Cas9 technique: a model to study CBX2 role in human sex development"
- Ivan Domenech Mercade, PhD Student (October 2015-present) A: "AKR1C2 variant 3: biochemical characterization and role in DSD"; B: "Novel genes in DSD: STARD8"
- Dirk Hart (Feb 2017-present): "Expanding the ovarian developmental network"

Master Students

- Anna Baumann, (Med) (2015) "Lebensqualität in Patienten mit AGS"
- Raphael Persi, (Med) (2016) "Genotype/Phenotype correlation in Androgen insensitivity syndrome"
- Violette Corre (Med) (2017) " Quality of life and perception of research in DSD patients"
- Letizia Lepori (Med) (2017) " MODY in Fribourg"
- Tabea Brechwoldt (Med) (2018) " A case of congenital adrenal insufficiency"
- Mira Stürmlin (Med) (2019) "DSD and sport"

6. TEACHING AND TRAINING (2012-present)

Pre-graduate: Coordinator and lecturer module *Endocrinology,* 2nd and 3rd year medical school (4.5 ECTS) 2012-present.
Post-graduate: Theoretical and practical aspects of molecular genetics techniques for medicine and biochemistry students and post-docs . Theoretical and practical aspects of endocrinology for clinical fellows

7. OTHER SCIENTIFIC ACTIVITIES

Scientific reviewer for *Molecular and cellular endocrinology, Endocrine reviews, Endocrinology, European Journal of Pediatrics, Pediatrics, Journal of molecular medicine, Journal Of Clinical Endocrinology & Metabolism, PLoS One, Fertility and Sterility, The Swiss National Science Foundation. The Wellcome trust.*

8. PROFESSIONAL SOCIETIES MEMBERSHIPS

International Societies: The Endocrine Society US (1992-present); The International Pituitary Society (1999-present); The American Society of Human Genetics (2001-present); The European Society for Pediatric Endocrinology (ESPE) (2005-present)
National Societies: Schweizerische Arbeitsgruppe für päd. Endokrinologie/Diabetologie (1997-present); Schweizerische Gesellschaft für Endokrinologie/Diabetologie (1998-present); Zentrum für Intergrative Humanphysiologie Zürich (2004-present

9. PRIZES

- Nestlé Research Prize Swiss Pediatric Research Meeting (1996) CHF 1‘500
- Georg-Friedrich Götz Prize (2004) CHF 10.000.-
- Henning Andersen Prize (2018), € 3000, European Society for Pediatric Endocrinology (with D. Rodriguez and W.Eid)